



ANNUAL REPORT
OF THE
COMMISSIONER OF PATENTS
FOR
THE YEAR 1894.

WASHINGTON:

GOVERNMENT PRINTING OFFICE.

1895.



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REPORT
OF THE
COMMISSIONER OF PATENTS
TO CONGRESS,
FOR THE YEAR ENDING DECEMBER 31, 1894.

Laid before the House of Representatives by the Speaker, February 20, 1895, referred to the Committee on Patents, and ordered to be printed.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,

Washington, D. C., January 31, 1895.

*To the Senate and House of Representatives of the
United States of America in Congress assembled:*

I have the honor to submit the following report of the business of this Office for the year ending December 31, 1894.

In 1894 there were received 36,987 applications for patents; 1,357 applications for designs; 95 applications for reissues; 2,296 caveats; 2,053 applications for registration of trade-marks, and 371 applications for labels. There were 20,803 patents granted, including designs; 61 patents reissued, and 1,806 trade-marks registered. The number of patents which expired was 12,920. The number of patents which were by operation of law forfeited for non-payment of the final fee was 3,812. The total expenditures were \$1,100,047.12. The receipts over expenditures were \$37,392.46, and the total balance to the credit of the Patent Office in the Treasury of the United States amounts to \$4,369,135.91.

In proportion to population more patents were issued to citizens of Connecticut than to those of any other State—one to every 993 inhabitants—and next in order, in proportion to population, come Massachusetts with one to every 1,335; the District of Columbia with one to every 1,379; New Jersey with one to every 1,557; Montana with one to every 1,733; Rhode Island with one to every 1,753; New York with one to every 1,801, and Colorado with one to every 1,991. The States to whose citizens fewest patents were granted in proportion to the number of inhabitants are South Carolina, one to every 25,581; Mississippi, one to every 21,857; North Carolina, one to every 18,597; Arkansas, one to every 19,792, and Georgia, one to every 16,703. Some were issued to citizens of every State and territory in the Union.

As to foreign countries, more were granted to subjects of England than of any other—639; to those of Germany, 582; of the Dominion of Canada, 293; of France, 196; some to subjects of Austria-Hungary, Belgium, China, Cuba, Denmark, Finland, Hawaii, India, Ireland, Italy, Mexico, Netherlands, New South Wales, New Zealand, Norway, Queensland, Russia, Scotland, Servia, South Australia, Spain, Sweden, Switzerland, Venezuela, and Victoria, and one each to citizens, respectively, of British Guiana, Chile, Colombia, Ecuador, Guatemala, Natal, New Providence, Peru, and Porto Rico.

ACTIONS OF THE OFFICE.

The Office received for action not only the 40,492 original applications for patents, for designs, for reissues, and for the registration of trade-marks, but received also 85,422 amendments of applications and other writings from applicants which put the cases to which they appertained into condition for further action by the Office in the nature of re-examination.

An average of 711 original cases was received a week, and an average of 1,642 amended cases each week. On the 31st day of December, 1894, there were pending in the Office 2,273 new applications not acted on and 2,180 amended cases not acted on, a total of 4,453.

None of the thirty-three examining divisions in the Office was in arrears more than one month, either on new applications or on amended work, and this means that any application for a patent filed complete and in such form as that the subject-matter may be understood receives action upon the merits within one month of the filing date.

PROSECUTION OF CASES BY APPLICANTS.

On December 31, 1894, there were 5,597 allowed cases awaiting the payment of the final fee of twenty dollars, which section 4985 of the Revised Statutes permits to be paid within six months from the time at which the application was passed and allowed and notice thereof sent to the applicant or his agent. On the same day there were pending in the Office 50,507 cases which had been acted on by the Office, many of them repeatedly, and which were awaiting amendment or repeal or other proceeding in prosecution on the part of the applicants. Twelve thousand of these applications had been pending two years or more; 1,514 of them had been pending five years or more; 130 of them had been pending ten years, and 5 of them had been pending fifteen years.

Section 4894 of the Revised Statutes provides:

All applications for patents shall be completed and prepared for examination within two years after the filing of the application, and in default thereof or upon failure of the applicant to prosecute the same within two years after any action therein, of which notice shall have been given to the applicant, they shall be regarded as abandoned by the parties thereto, unless it be shown to the satisfaction of the Commissioner of Patents that such delay was unavoidable.

In some degree the practice obtains of employing this statute to sanction delays in the prosecution that seem to be unwarranted. An examination of three hundred of the oldest applications in the Office, all of them awaiting the action of the applicants, indicates that in some cases an application wanting in merit is

thus kept alive because the attorney shrinks from the responsibility of allowing it to become abandoned, and for that reason, just before the two years from the last Office action have expired, he amends for the purpose of continuing the application in being. In other cases, concerning inventions which are valuable, the delay is apparently intentional and the same procedure is employed to delay the issue of the patent in order that the seventeen years of exclusive use under it may begin from a future date and under a more fully developed art.

In a specimen case of apparently unwarranted delay the record of actions by the Office and of responses by the applicant was as follows:

Application filed.....	June 23, 1879
Rejected.....	July 21, 1879
Specification and claims amended.....	June 10, 1881
Rejected.....	June 23, 1881
One claim amended.....	May 2, 1883
Rejected finally.....	July 27, 1883
One claim canceled.....	July 24, 1885
Rejected.....	July 30, 1885
Three claims amended.....	July 23, 1887
Rejected.....	Jan. 6, 1888
All the claims amended.....	June 5, 1889
Rejected.....	July 2, 1889
Argument and amendment to two claims.....	June 23, 1891
Rejected.....	Aug. 26, 1891
Argument and amendment to one claim.....	Aug. 21, 1893
Rejected.....	Nov. 1, 1893

It appears from this record that the Office actions were prompt and that the applicant's responses were at intervals of nearly two years in six instances.

It is thought that the following regulations for the conduct of proceedings in the Patent Office are within the power of the Commissioner, with the approval of the Secretary of the Interior, to make, and it is proposed to enact them and to put them into effect on and after April 15, 1895:

An applicant will be considered to persist in his claim for a patent without altering his specification in case he fail to act in prosecution of the same for six months after the Office action thereon, and thereupon the Examiner will make a re-examination of the case.

In appealable cases in which no limit of appeal is fixed, no appeal will be entertained by any tribunal in the Office unless taken within six months from the action which puts the case in condition for appeal, unless it be shown to the satisfaction of the Commissioner that such delay was unavoidable.

In every case pending before the Office more than five years, in which the record raises the presumption that there have been intentional delays in prosecution, the Examiner may require the applicant to show cause why the case was not more rapidly prosecuted, and at the hearing, thereon, or upon failure of the applicant to appear, the Examiner will determine, under all the circumstances of the case, whether there have been intentional and unreasonable delays in prosecution, and upon finding the fact to be so he will reject the case for that reason.

I respectfully reiterate my former recommendation that the working force of the Patent Office be increased, and to that end that the appropriation be increased by \$64,590, in order that to such increased force may be assigned the work of classification, which now falls to the present examining corps. Perfect classification is the indispensable condition upon which reasonably accurate examinations upon the question of novelty may be made. The issue of a patent which is anticipated in any former patent, either in the 541,571 American patents or in the 864,700 foreign patents, or in any printed publication in this or in any foreign country, will be declared a nullity upon a proper proceeding in court. Very much of the litigation concerning patents is upon that question. The perfect classification of this vast material will enable applicants in the first instance to draw their claims with a close approximation to validity, and,

secondly, it would enable the Office to make searches upon which patents would be granted which in a very high percentage of cases would be held valid in the courts. A classification has been made by the separate divisions and from time to time revised; but it has its inherent defects, which require for their correction an exhaustive review of the whole ground.

Estimates are now before the Congress, and the additional force would comprise the following:

1 Chief of Classification Division.....	\$2,750
2 First Assistant Examiners, (each).....	1,800
2 Second Assistant Examiners, (each).....	1,600
3 Third Assistant Examiners, (each).....	1,400
36 Fourth Assistant Examiners, (each).....	1,200
2 Clerks, (each).....	1,200
2 Permanent Clerks, (each).....	1,000
2 Copyists, (each).....	900
2 Assistant Messengers, (each).....	720

It is thought that no new legislation would be required, seeing that the work to be done is such as has already been attempted, and that the changes in the appropriation bill for the present year providing for the increased force and increased expenditure are all that would be necessary to enable the work to be done. No printing is required.

I respectfully renew my former recommendations that the Scientific Library have an increased appropriation of \$10,000 instead of \$2,000; that the expired patents be printed; that authority for the sale of copies of patents, in classes, at five cents each, and in orders of one thousand or more, by classes, at three cents each, be given; that authority for organizing a patent bar be given the Commissioner, to be exercised under the approval of the Secretary of the Interior, and that section 4887 of the Revised Statutes be amended so that an application for a patent may be made in this country within six months from the date of application in any foreign country without subjecting the patent to restriction in its term of seventeen years by reason of such foreign application.

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications:	
Cash received.....	\$1,028,172 00
Cash refunded.....	5,312 00
Net cash.....	1,022,860 00
Certificates of deposit.....	35,475 00
Total cash and certificates.....	1,058,335 00
Copies:	
Cash received.....	101,967 88
Cash refunded.....	5,559 22
Net cash.....	96,408 66
Certificates of deposit.....	422 45
Total cash and certificates.....	96,831 11
Recording assignments:	
Cash received.....	21,317 20
Cash refunded.....	929 74
Net cash.....	20,387 46
Certificates of deposit.....	113 00
Total cash and certificates.....	20,500 46

Subscription to Official Gazette:	
Cash received.....	11,576 41
Cash refunded.....	134 20
Net cash.....	11,442 21
Certificates of deposit.....	55 30
Total cash and certificates.....	11,497 51
Registration of labels:	
Cash received.....	2,190 00
Cash refunded.....	1,914 50
Net cash.....	275 50
Certificates of deposit.....	
Total cash and certificates.....	275 50
Aggregates.	
Cash received.....	\$1,165,223 49
Cash refunded.....	13,849 66
Net cash.....	1,151,373 83
Certificates of deposit.....	36,065 75
Total cash and certificates.....	1,187,439 58

EXPENDITURES.

Amount expended by this Office under the several appropriations from January 1, 1894, to December 31, 1894.

Salaries.....	\$686,942 20
Official Gazette.....	39,430 95
Photolithographing.....	79,646 71
Scientific library.....	1,989 98
Transportation of publications to foreign governments.....	523 25
International Union for Protection of Industrial Property.....	680 98
Total.....	809,213 97

*Approximate amount reported by the Department of the Interior as expended on account of this Office from January 1, 1894, to December 31, 1894.**

Stationery.....	\$11,300 61
Postage on foreign matter.....	1,650 00
Printing and binding.....	249,141 33
Watch force.....	16,600 00
Furniture.....	214 83
Carpets.....	1,330 86
Ice.....	533 37
Telephones.....	393 91
Washing towels.....	99 63
Sundries.....	9,588 61
Total.....	290,833 15

Aggregate amount of expenditures..... 1,100,047 12

RECEIPTS OVER EXPENDITURES.

Total receipts.....	\$1,187,439 58
Total expenditures.....	1,100,047 12
Receipts over expenditures.....	87,392 46

Statement of balance in the Treasury of the United States on account of the patent fund.

Amount to the credit of the fund January 1, 1894..	\$4,281,743 45
Amount of receipts during the year 1894.....	1,187,439 58
Total.....	5,469,183 03
Deduct expenditures for the year 1894.....	1,100,047 12
Balance January 1, 1895.....	4,369,135 91

*A literal compliance with the provisions of the statute requiring "a detailed statement of all expenditures for contingent and miscellaneous expenses" is not possible, for the reason that the contingent fund for the several Bureaus of this Department was consolidated by the act of March 3, 1883, and hence no part of that fund is disbursed by the Patent Office, and I am furnished only with an approximate sum expended on behalf of the Patent Office.

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Number of applications for patents for inventions.....	36,987
Number of applications for patents for designs.....	1,357
Number of applications for reissues of patents.....	95
Total number of applications.....	38,439
Number of caveats filed.....	2,286
Number of applications for registration of trade-marks.....	2,053
Number of applications for registration of labels.....	371
Number of disclaimers filed.....	12
Number of appeals on the merits.....	1,033
Total.....	5,755
Total number of applications, etc., requiring investigation and action.....	44,194
Number of patents issued, including designs.....	20,803
Number of patents reissued.....	64
Total.....	20,867
Number of trade-marks registered.....	1,806
Number of labels registered.....	
Number of prints registered.....	5
Total.....	1,811
Number of patents expired during the year.....	12,920
Number of patents withheld for non-payment of final fees.....	3,812

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and designs.	One to every—
Alabama.....	88	17,193
Arizona Territory.....	11	5,420
Arkansas.....	57	19,792
California.....	617	1,958
Colorado.....	207	1,991
Connecticut.....	751	993
Delaware.....	33	5,105
District of Columbia.....	167	1,379
Florida.....	46	8,509
Georgia.....	110	10,703
Idaho.....	22	3,835
Illinois.....	1,632	2,344
Indiana.....	544	4,030
Indian Territory.....	3	
Iowa.....	334	5,724
Kansas.....	194	7,356
Kentucky.....	160	11,616
Louisiana.....	105	10,653
Maine.....	104	6,356
Maryland.....	305	3,417
Massachusetts.....	1,676	1,325
Michigan.....	750	2,791
Minnesota.....	316	4,119
Mississippi.....	59	21,857
Missouri.....	726	3,690
Montana.....	76	1,738
Nebraska.....	161	6,477
Nevada.....	10	4,576
New Hampshire.....	93	4,048
New Jersey.....	923	1,557
New Mexico Territory.....	11	13,963
New York.....	3,329	1,801
North Carolina.....	87	13,597
North Dakota.....	26	7,027
Ohio.....	1,402	2,619
Oklahoma Territory.....	10	6,183
Oregon.....	72	4,357
Pennsylvania.....	1,904	2,761
Rhode Island.....	197	1,753
South Carolina.....	45	25,581
South Dakota.....	43	7,646
Tennessee.....	106	16,674
Texas.....	271	8,249
Utah Territory.....	27	7,700
Vermont.....	78	4,261
Virginia.....	134	12,358
Washington.....	89	3,925
West Virginia.....	74	10,308
Wisconsin.....	413	4,084
Wyoming.....	15	4,047
United States Army.....	10	
United States Navy.....	9	
Total.....	18,637	

Patents granted to citizens of foreign countries.

Austria-Hungary	70	Natal	1
Belgium	23	Netherlands	6
British Guiana	1	New Providence	1
Canada	293	New South Wales	16
Chile	1	New Zealand	14
China	2	Norway	1
Colombia	1	Peru	1
Cuba	8	Porto Rico	1
Denmark	13	Queensland	6
Ecuador	1	Russia	18
England	689	Scotland	43
Finland	3	Servia	2
France	196	South Australia	4
Germany	582	Spain	40
Guatemala	1	Sweden	45
Hawaii	3	Switzerland	3
India	4	Venezuela	23
Ireland	11	Victoria	23
Italy	14		
Mexico	14	Total	2,166

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836 and exhibit in detail the business of the Office during the last calendar year;

Comparative statement of the business of the Office from 1837 to 1894, inclusive.

Year.	Applica- tions.	Caveats filed.	Patents and re- issues.	Cash re- ceived.	Cash ex- pended.	Surplus.
1837			435	\$29,289 08	\$33,506 08	
1838			520	42,123 54	37,338 02	\$4,784 62
1839			425	38,019 97	34,543 51	3,476 46
1840	765	228	473	38,056 51	39,020 67	
1841	847	312	495	40,413 01	52,666 87	
1842	761	291	517	36,505 63	31,241 43	5,264 20
1843	819	315	519	35,315 81	30,776 06	4,538 85
1844	1,045	380	497	42,509 26	36,944 53	6,164 73
1845	1,246	452	503	51,076 14	39,395 65	11,680 49
1846	1,272	448	638	50,264 16	46,158 71	4,105 45
1847	1,531	533	569	63,111 19	41,573 35	21,232 84
1848	1,628	607	653	67,576 69	58,905 84	8,670 85
1849	1,955	595	1,077	80,752 78	77,716 44	3,036 34
1850	2,193	602	993	86,927 05	80,100 95	6,826 10
1851	2,258	760	872	95,738 61	86,916 93	8,821 68
1852	2,639	996	1,019	112,056 34	95,916 91	16,139 43
1853	2,073	901	961	121,527 45	132,869 83	
1854	3,324	868	1,844	163,789 84	167,146 32	
1855	4,435	906	2,013	216,459 35	173,540 33	36,919 02
1856	4,900	1,024	2,505	192,583 02	199,931 02	
1857	4,771	1,010	2,696	195,132 01	211,582 09	
1858	5,364	943	3,710	203,716 16	193,193 74	10,522 42
1859	6,225	1,037	4,538	245,942 15	210,278 41	35,663 74
1860	7,653	1,084	4,819	256,353 59	252,320 80	3,531 79
1861	4,643	700	3,340	137,354 44	221,491 91	
1862	5,038	824	3,521	157,754 99	182,310 39	32,944 06
1863	6,014	787	4,170	165,593 29	189,414 14	6,170 15
1864	6,972	1,063	5,020	210,919 08	229,868 00	11,051 98
1865	10,664	1,937	6,616	345,791 84	274,199 34	74,592 50
1866	15,269	2,723	9,450	495,665 38	361,724 28	133,941 10
1867	21,276	3,597	13,015	646,581 92	639,263 32	7,318 60
1868	20,445	3,705	13,378	681,565 86	628,679 77	52,886 09
1869	19,271	3,624	13,986	693,145 81	456,430 74	206,715 07
1870	19,171	3,273	13,321	668,456 76	557,147 19	112,309 57
1871	19,472	3,366	13,083	678,716 46	562,091 64	116,624 82
1872	18,246	3,090	13,590	699,726 39	665,595 00	34,131 39
1873	20,414	3,248	12,864	709,191 77	691,178 98	12,012 79
1874	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1875	21,638	3,094	14,637	743,459 36	721,657 71	21,795 65
1876	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1877	20,308	2,909	14,187	732,349 85	613,132 62	119,190 23
1878	20,260	2,755	13,444	725,375 55	593,082 89	132,292 66
1879	20,059	2,620	13,213	709,931 47	529,638 97	174,292 50
1880	23,012	2,490	13,947	749,685 32	538,865 17	210,820 15
1881	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1882	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1883	34,576	2,741	22,333	1,146,340 00	675,234 86	471,005 14
1884	35,600	2,582	20,413	1,075,798 80	976,579 76	105,219 04
1885	35,717	2,552	21,233	1,188,089 15	1,024,378 85	163,710 30
1886	35,968	2,513	22,508	1,154,551 40	992,503 45	162,047 95
1887	35,613	2,622	21,477	1,144,509 60	994,472 22	150,037 38
1888	35,797	2,251	20,506	1,113,516 10	973,108 78	145,407 32
1889	40,575	2,451	24,158	1,281,728 05	1,052,955 96	228,772 09
1890	41,046	2,311	26,292	1,340,372 66	1,099,297 74	241,074 92
1891	40,552	2,408	23,244	1,271,255 78	1,130,713 35	131,572 43
1892	40,753	2,290	23,559	1,286,331 68	1,110,739 24	175,592 50
1893	38,473	2,247	23,769	1,242,571 64	1,141,038 45	101,833 19
1894	38,439	2,286	20,867	1,187,439 58	1,100,047 12	87,392 46

Statement showing the number of the first patent, Design patent, and reissued patent, and the number of the first certificate of registration of a Trade-Mark and a Label issued in each calendar year since July 28, 1836, when the present series of numbers of Letters Patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Year.	Number of first patent and certificate issued in each calendar year.					Number of patents and certificates of registration issued during each calendar year.						
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Total certificates.
1836 (July 28)	1					109						
1837	110					436						
1838	546					515		6				
1839	1,061					404		13				
1840	1,465					458		10				
1841	1,923					490		6				
1842	2,413					488		13				
1843	2,901					494	14	11	519			
1844	3,395	15				478	12	7	497			
1845	3,873	27				475	17	11	503			
1846	4,348	44				566	59	13	638			
1847	4,914	103				495	60	14	569			
1848	5,409	163				584	46	23	653			
1849	5,993	209				988	42	30	1,067			
1850	6,981	258				884	83	26	993			
1851	7,865	341				757	90	25	872			
1852	8,622	431				890	109	20	1,019			
1853	9,512	540				846	86	29	961			
1854	10,358	626				1,759	57	28	1,844			
1855	12,117	683				1,892	70	51	2,013			
1856	14,009	753				2,315	107	83	2,505			
1857	16,324	860				2,686	113	97	2,896			
1858	19,010	973				3,467	102	126	3,695			
1859	22,477	1,075				4,165	108	231	4,504			
1860	26,642	1,183				4,363	183	232	4,778			
1861	31,005	1,366	1,106			3,040	142	147	3,329			
1862	34,045	1,508	1,253			3,221	195	116	3,532			
1863	37,266	1,703	1,369			3,781	176	227	4,184			
1864	41,047	1,879	1,596			4,638	139	248	5,025			
1865	45,685	2,018	1,844			6,099	221	296	6,616			
1866	51,784	2,239	2,140			8,874	294	290	9,458			
1867	60,658	2,533	2,430			12,301	325	400	13,026			
1868	72,959	2,858	2,830			12,544	446	420	13,410			
1869	85,503	3,304	3,250			12,957	506	534	13,997			
1870	98,460	3,810	3,764		1	12,157	737	439	13,333	121		121
1871	110,617	4,547	4,223	122		11,687	905	464	13,056	486		486
1872	122,304	5,452	4,687	608		12,300	884	529	13,613	491		491
1873	134,504	6,336	5,216	1,099		11,616	747	501	12,864	492		492
1874	146,120	7,083	5,717	1,591	1	12,230	866	483	13,599	559	232	791
1875	158,350	7,969	6,200	2,150	233	13,291	915	631	14,837	1,138	232	1,370
1876	171,641	8,884	6,831	3,288	465	14,172	802	621	15,595	959	472	1,431
1877	185,813	9,686	7,452	4,247	937	12,920	699	568	14,187	1,216	392	1,608
1878	198,733	10,385	8,020	5,463	1,329	12,345	590	509	13,444	1,455	492	1,947
1879	211,078	10,975	8,529	6,918	1,821	12,193	592	488	13,213	872	355	1,227
1880	223,211	11,567	9,017	7,790	2,176	12,926	515	506	13,947	349	203	552
1881	236,137	12,082	9,523	8,139	2,379	15,548	565	471	16,584	834	202	1,036
1882	251,685	12,647	9,994	8,973	2,581	18,135	861	271	19,267	947	304	1,251
1883	269,820	13,508	10,265	9,920	2,885	21,196	1,020	167	22,383	902	906	1,808
1884	291,016	14,528	10,432	10,822	3,791	19,147	1,150	116	20,413	1,021	513	1,534
1885	310,163	15,678	10,548	11,843	4,324	23,331	773	129	24,233	1,067	391	1,458
1886	333,494	16,451	10,677	12,910	4,695	21,797	595	116	22,508	1,029	378	1,407
1887	355,291	17,046	10,793	13,939	5,073	20,429	949	99	21,477	1,133	380	1,513
1888	375,720	17,995	10,892	15,072	5,453	19,585	835	86	20,506	1,059	397	1,386
1889	395,505	18,890	10,978	16,131	5,780	23,360	723	75	24,158	1,229	319	1,548
1890	418,665	19,553	11,053	17,360	6,099	25,322	886	84	26,292	1,415	304	1,719
1891	443,987	20,439	11,173	18,775	6,403	22,328	836	80	23,244	1,762	137	1,899
1892	466,315	21,275	11,217	20,537	6,540	22,661	817	81	23,559	1,737	6	1,743
1893	488,976	22,092	11,298	22,274	6,546	22,768	902	99	23,769	1,877		1,877
1894	511,744	22,994	11,397	23,951		19,875	923	64	20,867	1,806		1,806

The following table shows the number of patents granted from the beginning down to the 31st of December, 1894, by classes, alphabetically arranged. Before each class is given the number of the division within the Office to which the class is assigned. In the second column is given the number of the class in the classification under which patents and the arts are arranged for the purposes of Office work. In the third column the names of the classes are given alphabetically, and in the fourth the whole number of patents granted in that class from the beginning down to the 31st day of December, 1894.

Div.	No.	Class.	Pat.	Div.	No.	Class.	Pat.
32	180	Acconterments	435	20	3	Artificial limbs	421
23	181	Acoustics	401	15	106	Artificial stone, lime, and cement	1,159
32	40	Advertising	1,922	32	190	Baggage	1,333
22	123	Air and gas engines	1,025	9	4	Baths and closets	3,274
31	195	Alcohol	1,137	2	5	Beds	5,014
31	203	Ammonia, water, and wood distillation	255	2	6	Bee-culture	998
3	143	Annealing and tempering	736	6	8	Bleaching and dyeing	1,525
24	2	Apparel	5,479	22	9	Boats	1,216
13	86	Arms and projectiles. Making	268	5	11	Bookbinding	2,566
2	166	Artesian and oil wells	1,771	11	12	Boots and shoes	9,348

Patents granted from the beginning down to the 31st of December, 1894.—Continued.

Div.	No.	Class.	Pats.	Div.	No.	Class.	Pats.
21	13	Brakes and gins	1,264	2	185	Mechanical motors	1,775
15	107	Bread, cracker, and lozenge making	764	6	167	Medicines	1,332
4	14	Bridges	951	14	153	Metal-bending	658
27	15	Brushing and scrubbing	3,184	13	10	Metal bolts, nuts, rivets, and screws	2,396
20	16	Builders' hardware	7,792	13	77	Metal boring and drilling	1,242
25	17	Butchering	973	13	205	Metal-drawing	322
15	18	Caoutchouc and minor plastics	1,864	13	78	Metal-forging	732
32	209	Carbonating beverages	278	3	22	Metal-founding	2,310
21	19	Carding	1,320	3	75	Metallurgy	4,685
2	119	Care of live stock	3,089	14	201	Metal-ornamenting	120
29	20	Carpentry	3,717	14	79	Metal personal wear. Making	461
10	21	Carriages and wagons	20,096	14	164	Metal punching and shearing	1,056
13	59	Chains, staples, and horseshoes	842	13	80	Metal-rolling	1,167
8	155	Chairs	4,389	13	76	Metal tools and implements. Making	2,686
31	202	Charcoal and coke	1,178	13	134	Metal-tube manufacture	433
6	23	Chemicals	1,143	13	82	Metal turning, planing, and milling	2,012
11	24	Clasps, buckles, and buttons	11,795	13	206	Metal-welding	535
15	25	Clay and pottery	3,090	14	81	Metal-working tools	3,265
21	26	Cloth-finishing	659	25	83	Mills	9,720
12	192	Clutches	1,535	31	196	Mineral oils	666
3	96	Coating with metal	454	5	84	Music	3,928
14	194	Coin-controlled apparatus	818	13	85	Nails and spikes	1,523
15	154	Composite roofings and coverings	665	13	163	Needles and pins	175
12	193	Conveyers	1,167	14	151	Nut and bolt locks	1,540
29	147	Coopering	1,670	31	87	Oils, fats, and glue	1,836
21	28	Cordage	1,549	30	88	Optics	1,445
12	212	Craues and derricks	596	22	89	Ordnance	954
24	29	Crinoline and corsets	1,506	32	210	Packaging and dispensing liquids	1,262
8	156	Curtains, shades, and screens	2,435	32	150	Packing and storing vessels	10,554
13	30	Cutlery	2,103	31	91	Painting	2,043
2	31	Dairy	4,435	15	92	Paper-making	3,307
20	32	Dentistry	1,283	17	93	Paper-manufactures	3,381
24	165	DESIGNS	---	15	94	Paving	1,090
23	33	Drafting	697	6	95	Photography	1,481
28	34	Driers	2,481	1	97	Plows	10,122
31	35	Educational appliances	793	28	98	Pneumatics	3,647
26	173	Electricity. Conductors	2,056	6	99	Preserving	1,591
26	191	Electricity. Electric railways	1,751	2	100	Presses	3,798
26	171	Electricity. Generation	2,927	17	101	Printing	5,833
26	174	Electricity. Medical and surgical	393	22	102	Projectiles	2,076
26	172	Electricity. Motive-power	1,061	9	103	Pumps	4,240
16	175	Electricity. Special applications	493	34	188	Railway-brakes	2,867
16	176	Electric lighting	3,346	34	213	Railway draft appliances	6,750
16	177	Electric signaling	1,781	34	105	Railway rolling stock	5,827
3	204	Electro-chemistry	2,963	4	104	Railways	8,334
12	187	Elevators	1,639	28	62	Refrigeration	3,408
4	37	Excavating	2,165	29	108	Roofing	1,182
6	52	Explosives	500	20	109	Safes	490
14	168	Farrery	1,234	1	111	Seeders and planters	7,477
21	38	Felt and fur	771	9	182	Sewerage	281
1	39	Fences	6,807	24	112	Sewing-machines	6,048
6	71	Fertilizers	424	3	207	Shaping fluid metal	235
5	41	Fine arts	1,500	14	113	Sheet-metal ware. Making	2,266
22	42	Firearms	4,356	22	114	Ships	2,743
4	159	Fire escapes and ladders	2,487	22	116	Signals	2,662
9	169	Fire-extinguishers	1,023	21	117	Silk	106
4	183	Fireproof buildings	455	21	118	Spinning	2,298
22	43	Fishing and trapping	2,667	5	120	Stationery	4,532
31	50	Fluid-pressure regulators	802	18	160	Steam and vacuum pumps	227
15	44	Fuel	636	18	122	Steam-boilers	5,883
8	45	Furniture	4,854	18	110	Steam-boiler furnaces	2,947
7	46	Games and toys	4,453	18	121	Steam-engines	8,237
31	48	Gas	3,060	18	136	Steam-engine valves	2,465
15	49	Glass	1,351	25	125	Stone-working	2,188
27	51	Grinding and polishing	2,598	8	211	Store-furniture	1,323
13	53	Hardware-making	1,395	12	186	Store-service	690
11	54	Harness	7,400	19	126	Stoves and furnaces	18,340
1	55	Harrows and diggers	4,691	6	127	Sugar and salt	2,401
7	56	Harvesters	10,155	6	128	Surgery	3,335
31	149	Hides, skins, and leather	1,091	16	178	Telegraphy	3,075
12	57	Hoisting	5,558	16	179	Telephony	2,297
23	58	Horology	3,640	25	130	Thrashing	4,130
11	60	Hose and belting	1,002	2	131	Tobacco	2,274
4	61	Hydraulic engineering	1,146	24	132	Toilet	826
9	138	Hydraulic motors	2,572	4	200	Towers	473
18	162	Injectors and ejectors	540	1	47	Trees, plants, and flowers	924
4	189	Iron structures	524	30	197	Type-writing machines	1,112
5	63	Jewelry	1,106	24	135	Umbrellas and canes	947
12	64	Journal-boxes, pulleys, and shafting	4,352	20	27	Undertaking	630
8	65	Kitchen and table articles	1,747	25	146	Vegetable cutters and crushers	2,005
21	66	Knitting and netting	1,580	7	208	Velocipedes	2,388
30	67	Lamps and gas-fittings	8,211	13	152	Wagon, car, and track irons	1,074
27	68	Laundry	7,633	27	141	Washing apparatus	652
11	69	Leather-working machinery	532	9	137	Water-distribution	7,707
30	199	Linotyping	98	21	139	Weaving	3,732
20	70	Locks and latches	5,979	29	157	Wheelwright-machines	310
2	184	Lubricators	1,409	28	170	Wind-wheels	1,485
12	74	Machine elements	4,785	14	140	Wire-working	1,449
22	115	Marine propulsion	1,583	29	143	Wood-sawing	4,299
4	72	Masonry	459	29	142	Wood-turning	756
30	198	Matrix-making	114	29	144	Woodworking-machines	5,524
23	73	Measuring-instruments	9,344	29	145	Woodworking-tools	4,235

Respectfully submitted,

JOHN S. SEYMOUR,
Commissioner.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1894.

[Patentees of Designs, Trade-Marks, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
A. A. Griffing Iron Company. (See Forbes, William D., assignor.)						
A. A. Griffing Iron Company. (See McIlvrid, William, assignor.)						
A. A. Griffing Iron Company. (See Williams and Marvin, assignors.)						
A. B. Dick Company. (See Dick, Albert B., assignor.)						
A. B. Dick Company. (See Fuerth, William G., assignor.)						
A. B. See Manufacturing Company. (See Lindstrom and Cummings, assignors.)						
A. French Spring Company. (See French, Philo N., assignor.)						
A. G. Spalding & Brothers <i>et al.</i> (See Perkins, Albert, assignor.)						
A. H. Andrews & Company. (See Costello, Thomas H., assignor.)						
A. H. Andrews & Company. (See Wilnot, John F., assignor.)						
A. M. Collins Company. (See Odgers, John P., assignor.)						
Abbé, Richard F., Brooklyn, assignor to J. R. Alsing Company, New York, N. Y. Grind-						
ing and pulverizing cylinder	529,096	Nov. 13	1037	250	69	854
Abbott, Charles E., Boston, assignor of one-half to S. Bancroft, Reading, Mass. Letter-						
box	528,897	Nov. 6	678	163	69	770
Abbott, David S., and G. G. Parker, Olean, N. Y.; said Parker assignor to said Abbott.						
Machine for bundling kindling-wood	529,231	Nov. 13	1269	365	69	896
Abbott, Leonard G., <i>et al.</i> (See Larsen, August, assignor.)						
Abbott, Leonard G., and T. D. Greene, Syracuse, N. Y. Swinging sash-mounting	531,244	Dec. 18	2036	491	69	1618
Abbott, Levi, Arlington, assignor of one-fourth to D. H. Morrison, Somerville, Mass.						
Fruit-picker	515,702	Feb. 27	2846	708	66	1434
Abbott, Nathaniel B., assignor of one-half to W. D. Elger, Brooklyn, N. Y. Bottle-sealing						
and stopper-retaining device	521,752	June 19	1787	424	67	1554
Abbott, Nathaniel B., and H. Rau; said Rau assignor to said Abbott; said Abbott assignor	521,751	June 19	1785	423	67	1554
of one-half to W. D. Elger, Brooklyn, N. Y. Apparatus for capping bottles				424		
Abbott, Samuel, Salem, Mass. Window-screen	525,381	Sept. 4	108	28	68	1170
Abbott, Samuel H., <i>et al.</i> (See Murdock, Harvey W., assignor.)						
Abbott, Willard W., and J. Green, Hoopeson, Ill. Device for removing can-holding crates						
from retorts	524,696	Aug. 21	1251	309	68	921
Abbott, William W., Pittsburg, Pa. Sash-balance	527,760	Oct. 23	1785	430	69	377
Abel, George, Chicago, Ill. Vestibule for cars	515,510	Feb. 27	2528	626	66	1372
Abeles, Leon. (See Fischel, Jakob, assignor.)				627		
Abeling, Otto, Burke, Idaho. Plunger-worker for concentrating-jigs	520,287	May 22	2368	575	67	1020
Abell, William P., Essequibo, British Guiana. Automatic device for feeding megass-fur-						
naces	522,445	July 3	472	120	68	94
Abercrombie, Charles M., assignor to Wheeler & Wilson Manufacturing Company, Bridge-						
port, Conn. Hemstitch sewing-machine	520,977	June 5	409	98	67	1271
Abernethy, Harry M., Newark, Ohio. Railway-signal	523,257	July 17	1885	473	68	385
Abernethy, Harry M., and J. M. Graham, Newark, Ohio. Safety switch signal device	521,690	June 19	1667	391	67	1532
Able, David, and E. Grosse; said Able assignor, by mesne assignments, to W. S. Schroll,				474		
Manchester, Pa. Whiffletree	529,673	Nov. 20	2053	492	69	1060
Abney, Diton H., assignor of one-third to H. J. Norton, Atchison, Kans. Watch-bow fas-						
teners	521,070	June 5	571	134	67	1300
Abraham, Lewis C. (See Abraham, Samuel and L. C.)						
Abraham, Max, assignor of one-half to F. Joers, Chicago, Ill. Shaft-coupling	526,551	Sept. 25	2141	513	68	1582
Abraham, Samuel and L. C., Brussels, Belgium. Rake or scraper for cleaning boiler-tubes.	514,111	Feb. 6	211	48	66	894
Abrahams, John W., assignor of one-half to H. A. Marlin, Allegheny, Pa. Sheet-metal						
pipe	526,663	Sept. 25	2328	557	68	1617
Abrams, Eliza A. (See Abrams, William R., assignor.)						
Abrams, Gustav, Hutchinson, Minn. Superheater	520,288	May 22	2369	575	67	1020
Abrams, William R., assignor to E. A. Abrams, Los Angeles, Cal. Sash-fastener	528,059	Oct. 23	2324	560	69	474
Abshier, Smith H., and G. F. Lacke, Newburg, Ind. Weather-board gage and adjuster	520,472	May 29	2672	561	67	1093
Accles, James G. (See Winterton, James, assignor.)				646		
Accurate Time Stamp Company. (See Giroud, Peter G., assignor.)						
Acovedo, Edwardo M. (See Olivera y Martinez, Eligio, assignor.)						
Acheson, Edward G., Monongahela City, Pa. Carbon for electric lights	527,826	Oct. 23	1888	453	69	395
Acheson, William J., assignor to A. A. Chapin, Denver, Colo. Attachment for bicycles	515,892	Mar. 6	254	59	66	1501
Ackerman, Albert A., U. S. Navy, assignor of one-half to T. T. Crittenden, Washington,						
D. C. Manufacture of armor-plate	518,908	Apr. 24	2546	629	67	511
Ackermann, Hermann, Marysville, Kans., assignor, by mesne assignments, to C. F. Zim-						
mermann Company, Dolgeville, N. Y. Stringed instrument	522,870	July 10	1182	295	68	240

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Ackermann, Wilhelm, Giebichenstein, near Halle-on-the-Saale, assignor to Grabau's Aluminium-Werke, Trotha, near Halle-on-the-Saale, Germany. Making aluminum fluorid	513,971	Feb. 6	1	-----	66	855
Ackerson, Edward H., <i>et al.</i> (See Smith, Benjamin F., assignor.)						
Ackerson, Thomas C., <i>et al.</i> (See Smith, Benjamin F., assignor.)						
Ackley, George D., Fort Worth, Tex. Flushing apparatus	517,718	Apr. 3	513	124	67	99
Acland, Francis E. D. (See Simpson, Stephen, assignor.)						
Acme Adjustable Pole Company. (See Holmes, Nathan L., assignor.)						
Acme Machine Company. (See Walter, Stephen A., assignor.)						
Acme Machinery Company. (See Bruch and Eilers, assignors.)						
Acme Roofing Company. (See Fickinger, Emil H., assignor.)						
Action-Gesellschaft für Anilin Fabrikation. (See Diehl, Theodor, assignor.)						
Action-Gesellschaft für Anilin Fabrikation. (See Herzberg and Weber, assignors.)						
Action-Gesellschaft für Anilin Fabrikation. (See Kirchhoff, Richard, assignor.)						
Action-Gesellschaft für Anilin Fabrikation. (See Moeller, Max, assignor.)						
Action-Gesellschaft für Zink Industrie, vormale Wilhelm Grillo. (See Schroeder, Max, assignor.)						
Adair, Isaac V., MacDougall's, N. Y. Wire-fence-winding device	519,103	May 1	280	66	67	589
Adair, John, Waterford, Ireland, assignor to Adair Syndicate, Limited, London, England. Machine for mixing or working dough	528,986	Oct. 2	517	126 127	69	97
Adair, John, Waterford, Ireland, assignor to Adair Syndicate, Limited, London, England. Baker's oven	528,456	Oct. 30	3015	728 729	69	613
Adair Syndicate. (See Adair, John, assignor.)						
Adam, Edouard, Lucerne, Switzerland. Gazette-holder	517,420	Apr. 3	1	1	67	3
Adam, Edwin, and M. O. Rehffuss, assignors to E. Adam, Philadelphia, Pa. Apparatus for combining liquids, &c.	513,857	Jan. 30	3543	873	66	802
Adam, Edwin, and M. O. Rehffuss, assignors to E. Adam, Philadelphia, Pa. Charging and combining wort, liquors, &c., with carbonic-acid gas	513,858	Jan. 30	3544	873	66	803
Adam, Edwin, and M. O. Rehffuss, assignors to E. Adam, Philadelphia, Pa. Method of and means for charging and combining fermented or unfermented liquids with carbonic-acid gas.	523,501	July 24	2309	582	68	477
Adams, Alexander. (See Allenson, John, assignor.)						
Adams, Arthur L. (See Hill and Adams.)						
Adams, Austin, New York, N. Y. Bolt	520,227	May 22	2265	551	67	1000
Adams Brothers Company. (See Kwis, Joseph J., assignor.)						
Adams, Charles M. and G. W. Providence, R. I. Jeweler's press	531,915	Dec. 18	1463	347	69	1513
Adams, Charles P. (See Smith, Millard F., assignor.)						
Adams Company. (See Farwell, Fay O., assignor.)						
Adams, Edward A. (See Bemis and Adams.)						
Adams, Frank, Milwaukee, Wis. Book-sewing bench	514,691	Feb. 13	1193	297	66	1096
Adams, George B., Irvington, N. J. Trousers-strap	523,063	July 17	1521	380	68	319
Adams, George E., Providence, R. I. Buckle	517,421	Apr. 3	1	1	67	3
Adams, George E., New Britain, Conn. Clinch-back for suspender-buckles	520,025	May 22	1899	464	67	935
Adams, George E., New Britain, Conn. Suspenders	521,071	June 5	572	134	67	1300
Adams, George E., New Britain, Conn. Cast-off for suspender-ends	530,318	Dec. 4	424	106	69	1292
Adams, George E., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Garment-supporter	521,775	June 26	1833	437	67	1579
Adams, George E., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Cast-off for suspenders	528,624	Nov. 6	177	43	69	678
Adams, George E., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Manufacture of sheet-metal suspender-buckles	528,625	Nov. 6	178	44	69	678
Adams, George F. (See Lynam and Adams.)						
Adams, George F., <i>et al.</i> (See Lynam, John S., assignor.)						
Adams, George F., Nashua, N. H., and J. S. Lynam, Winchester, Mass., assignors to C. S. Collins, Nashua, N. H. Railway-signal	528,913	Nov. 13	733	172	69	801
Adams, George F., Nashua, N. H., and J. S. Lynam, Winchester, Mass., assignors to C. S. Collins, Nashua, N. H. Railway-signal	528,914	Nov. 13	734	172	69	801
Adams, George S., Brooklyn, N. Y., assignor to W. A. Hall, Bellows Falls, Vt. Calcimine	525,804	Sept. 11	842	-----	68	1318
Adams, George W. (See Adams, Charles M. and G. W.)						
Adams, Horace B., Owego, N. Y. Attachment for coffee-pots	529,349	Nov. 20	1479	356	69	957
Adams, Israel, and J. H. Doswell, Fort Wayne, Ind. Lawn-mower sharpener	519,441	May 8	911	219 220	67	726
Adams, John, assignor of one-half to D. A. Calloway, Montrose, Colo. Solar top	523,316	July 17	1980	497	68	403
Adams, John F., Aledo, Ill. Hay-press	528,755	Nov. 6	406	98, 99	69	720
Adams, John Q., Marseilles, Ill. Separator for corn-shellers	531,292	Dec. 25	2145	514	69	1651
Adams, Joseph H., New York, N. Y. Heater	519,560	May 8	1128	271	67	764
Adams, Lindsley, Atlanta, N. Y. Vent attachment for pump-pipes	518,934	May 1	1	1	67	537
Adams, Robert, London, England. Combined door spring and check	525,643	Sept. 4	532	129 130	68	1250
Adams, Russell B. (See Bennett and Adams.)						
Adams, Russell B., Westerville, Ohio. Dust-pan attachment	515,036	Feb. 20	1749	442	66	1213
Adams & Sons Company. (See Williams, John A., assignor.)						
Adams, Stephen J., Pittsburg, Pa. Sand mold and runner	520,101	May 22	2026	495	67	958
Adams, Stephen J., Pittsburg, Pa. Sand mold	521,448	June 19	1345	294	67	1455
Adams, Stephen J., Pittsburg, Pa. Sand mold	521,449	June 19	1247	294	67	1455
Adams, Stephen J., Pittsburg, Pa. Apparatus for forming sand molds	521,450	June 19	1250	294	67	1456
Adams, Stephen J., Pittsburg, Pa. Sand mold	521,451	June 19	1256	294	67	1456
Adams, Stephen J., Pittsburg, Pa. Sand mold	521,452	June 19	1260	295	67	1457
Adams, Stephen J., Pittsburg, Pa. Sand mold	521,453	June 19	1264	295	67	1458
Adams, Stephen J., Pittsburg, Pa. Sand mold	521,454	June 19	1267	295	67	1458
Adams, Stephen J., Pittsburg, Pa. Pouring-ladle	521,519	June 19	1377	320	67	1479
Adams, Stephen J., Pittsburg, Pa. Apparatus for forming molds	521,520	June 19	1381	320	67	1479
Adams, Stephen J., Pittsburg, Pa. Casting sand molds	521,521	June 19	1385	321	67	1480
Adams, Stephen J., Pittsburg, Pa. Sand mold	521,753	June 19	1788	424	67	1554
Adams, Stephen J., Pittsburg, Pa. Molding apparatus	521,999	June 26	2329	538	67	1655
Adams, Stephen J., Pittsburg, Pa. Molding apparatus	522,000	June 26	2343	538	67	1656
Adams, Stephen J., Pittsburg, Pa. Molding apparatus	522,140	June 26	2473	593	67	1700
Adams, Stephen J., Pittsburg, Pa. Apparatus for forming sand molds	523,502	July 24	2313	582	68	477
Adams, Stephen J., Pittsburg, Pa. Molding apparatus	531,429	Dec. 25	2381	570	69	1697
Adams, T. B. (See Greiner, John F., assignor.)						
Adams, Thomas. (See Chadbourne, Zebulon L., assignor.)						
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Motor-support for motor-trucks	513,226	Jan. 23	2480	599	66	566
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Signal-bell	519,828	May 15	1571	384 385	67	859

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. & g.	Vol.	Page.
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Means for supporting motors in electric locomotives.	529,688	Nov. 27	2079	498	69	1075
Adams & Westlake Company. (See Emery, Plato G., assignor.)						
Adams & Westlake Company. (See Giese, James A., assignor.)						
Adams & Westlake Company. (See Hamm and Duburn, assignors.)						
Adams & Westlake Company. (See Paterson, James W., assignor.)						
Adams & Westlake Company. (See Teal, Henry S., assignor.)						
Adams, Willard G., Weedsport, N. Y. Rotary engine.	530,982	Dec. 18	1578	374	69	1532
Adams, William A., Cincinnati, Ohio. Preparing and utilizing rock asphalt.	528,841	Nov. 6	589		69	753
Adams, William D., Brooklyn, N. Y. Safety device for horse-blankets.	523,966	Aug. 7	1	1	68	663
Adams, William J. (See Knowles and Adams.)						
Adams, William R., et al. (See Parman, William S., assignor.)						
Adams & Williamson. (See Williamson, Marshall D., assignor.)						
Adamson, Charles E., Muncie, Ind. Two-color attachment for printing-presses.	528,060	Oct. 23	2325	561	69	474
Adamson, Charles E., Muncie, Ind. Disk-cover for job-printing presses.	531,293	Dec. 25	2147	514	69	1651
Adamson, Charles E., Muncie, Ind. Method of and apparatus for producing copied effect on printed matter.	531,294	Dec. 25	2148	514	69	1651
Adamson, Charles E., Muncie, Ind., assignor to A. Hallett, Somerville, Mass. Producing copied effects on printed matter.	528,133	Oct. 30	2467	597	69	515
Adamson, Daniel, deceased, (J. L. Norris, Washington, D. C., administrator,) assignor to Adamson Gun Syndicate, Limited, London, England. Gun-mounting.	519,965	May 15	1789	439	67	900
Adamson, George P., et al. (See Hart, Edward, assignor.)						
Adamson Gun Syndicate. (See Adamson, Daniel, assignor.)						
Adams, John, Fort Worth, Tex. Tile-machine.	517,510	Apr. 3	156	34	67	32
Adee, Fred. (See Sanger, John N., assignor.)						
Adee, Fred, Brooklyn, N. Y. Water-closet.	516,174	Mar. 13	709	167	66	1601
Adee, Fred, Brooklyn, N. Y. Washbasin, bath, &c.	523,421	July 24	2154	541	68	451
Adkins, Andrew A. (See Kahne and Adkins.)						
Adkins, Andrew A. (See Kahne, Adkins, Peirce, Martin, and Kahne.)						
Adkins, Joseph H., assignor of one-half to J. C. Johnson, Madison, N. C. Extension-drawer support.	516,583	Mar. 13	1405	334	66	1730
Adkins, Samuel S., St. Louis, Mo. Valve for automatic fire-extinguishers.	523,923	July 31	3050	761 762	68	630
Adkins, William H., Rome, Ga. Signal-recording device.	527,258	Oct. 9	951	231	69	191
Adler, A. S., et al. (See Moskowitz, Morris, assignor.)						
Adler, Abraham S., Baltimore, Md. Conformerator.	526,849	Oct. 2	291	71	69	55
Adler, Joshua, and J. A. Chase, Denver, Colo. Game apparatus.	512,144	Jan. 2	685	165	66	131
Adler, Leon D., et al. (See Moskowitz, Morris, assignor.)						
Adler, Marcus, et al. (See Johnson, Charles T., assignor.)						
Adler, Maurice. (See Lindner and Adler.)						
Adrianco, Cornelius B., Buffalo, N. Y. Extensible cradle or crib.	514,401	Feb. 6	710	179 180	66	987
Adrianco, Cornelius B., Buffalo, N. Y. Folding bed.	514,402	Feb. 6	711	180	66	987
Adrianco, Platt & Company. (See Brown, Thomas S., assignor.)						
Adrianson, John, Chicago, Ill. Packet-fastener for garment-skirts.	520,761	June 5	1	1	67	1197
Adsit, Alfred M., Hastings, Minn. Inhaler.	514,298	Feb. 6	562	141	66	959
Adsit, Frank H., Geneva, Pa. Dehorning-shears.	514,803	Feb. 13	1379	347	66	1132
Advance Thresher Company. (See Bailey, Victor C., assignor.)						
Advance Thresher Company. (See Briggs, Willett W., assignor.)						
Advance Thresher Company. (See Neal, William, assignor.)						
Advance Thresher Company. (See Snyder, Cyrus, assignor.)						
Aeolian Organ and Music Company. (See Binnig, Jacob, assignor.)						
Aeolian Organ and Music Company. (See Chase and Tracy, assignors.)						
Agan, Edward L. (See Chamberlain and Agan.)						
Agostini, John, New York, N. Y. Pyrotechnic compound.	523,614	July 24	2487		68	510
Ahern, Denis, New York, N. Y. Steam-boiler.	521,532	June 19	1403	324	67	1483
Ahern, Denis, New York, N. Y. Steam-boiler.	522,871	July 10	1183	295	68	240
Ahern, Denis, New York, N. Y. Steam-boiler.	528,409	Oct. 30	2937	710	69	599
Ahlers, Richard, Brooklyn, N. Y. Garment-book.	514,584	Feb. 13	1021	257	66	1062
Ahlers, William, Pyatt, Ill. Corn-planter.	528,242	Nov. 6	590	139	69	753
Ahlstrom, Oscar G., assignor to E. G. Smith, New York, N. Y. Bottle-stopper.	523,449	July 24	2212	556	68	460
Ahlvin, John E., and C. G. Tengdun, Joliet, Ill. Machine for making moldings.	514,053	Feb. 6	124	29	66	877
Ahne, Bernard W., Bayonne, N. J. Blackboard-ruler.	523,719	July 31	2694	667	68	564
Ahrens, Christopher, Cincinnati, Ohio, assignor to American Fire Engine Company, Cincinnati, Ohio, and Seneca Falls, N. Y. Vertical-fine boiler.	519,013	May 1	120	29	67	559
Aichele, Christian, assignor to North Brothers Manufacturing Company, Philadelphia, Pa. Securing crank-arms to shafts.	512,529	Jan. 9	1336	322	66	264
Aiguier, Edward B., assignor of one-half to Richardson Manufacturing Company, Newark, N. J. Combined key-ring and cigar-cutter.	529,577	Nov. 20	1909	455	69	1033
Aiken, Henry, Pittsburg, Pa. Ingot-extractor.	526,093	Sept. 18	1341	311 312	68	1420
Aiken, Henry, Pittsburg, Pa. Ingot-extractor.	526,095	Sept. 18	1345	313	68	1421
Aiken, Henry, Pittsburg, Pa. Loading apparatus.	530,296	Dec. 4	390	98	69	1286
Aiken, Henry, Pittsburg, Pa., and F. W. Wood, Baltimore, Md. Apparatus for extracting ingots.	526,004	Sept. 18	1342	312	68	1420
Aikin, George D. R., Louisville, Ky. Practice-cartridge.	517,719	Apr. 3	515	125	67	100
Aikin, Robert C., Loveland, and H. Knight, Littleton, Colo. Beehive.	522,772	July 10	1045	258	68	213
Aikman, Clinton C., Dana, Ind. Gate.	523,782	July 31	2794	694	68	582
Aims, William D. P., Jr., Philadelphia, Pa. Filter.	512,931	Jan. 16	2008	482	66	411
Ainslie, Mark O., Cincinnati, Ohio. Headlight-reflector.	525,571	Sept. 4	428	102	68	1230
Aitken, Andrew N. (See Middlekauff and Aitken.)						
Ajax Forge Company. (See Bradley, Frank B., assignor.)						
Ajax Metal Company. (See Laro and Greer, assignors.)						
Ajello, Clement, New York, assignor of one-half to L. Guli, Brooklyn, N. Y. Window.	521,356	June 12	1085	255 384 385	67	1409
Akerlind, Gustaf A., Rock Island, Ill. Locomotive-boiler.	527,645	Oct. 16	1591	258 259	69	324
Akers, Earl C., Port Huron, Mich. Line-holder for vessels.	522,773	July 10	1047	259	68	213
Akers, Henry H. (See Mann and Akers.)						
Akers, John M., Cleveland, Ohio. Ticket-holder.	527,644	Oct. 16	1590	384	69	324
Akin, Myron H. (See Mable, William, assignor.)						
Aktiebelaget Separator. (See Jönsson, Johan L., assignor.)						
Aktiebelaget Separator. (See Lindstrom, Ivar K., assignor.)						
Aktieselskabet Norsk Fiskemel Company. (See Waage, Peter, assignor.)						
Albach, William H., Mansfield, Ohio. Package-carrier.	513,449	Jan. 23	2251	699	66	637

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
Albee, George E., New Haven, Conn. Intrenching-tool	515,568	Feb. 27	2625	653	66	1391
Albee, Henry C., <i>et al.</i> (See Pack, John F., assignor.)						
Alberger, Hattie L., <i>et al.</i> (See Alberger, Samuel F., assignor.)						
Alberger, Samuel F., Orchard Park, assignor to J. T. McCready, Buffalo, and H. L. Alberger, Orchard Park, N. Y. Mechanical movement	520,626	May 29	2923	707	67	1140
Albershardt, August H., Crawfordsville, Ind. Attachment for valises, &c	523,503	July 24	2316	583	68	478
Albershardt, August H., Crawfordsville, Ind. Holder for umbrellas, &c	523,953	July 31	3113	775	68	643
Albert, Charles H., and C. Fox, Jr., Racine, Wis. Boiler-flue cutter	514,985	Feb. 20	1663	416	66	1199
Albert, David L., San Francisco, Cal. Calculator for wages	518,438	Apr. 17	1744	433	67	352
Albert, Eugene J. (See Carswell, Henry G., assignor.)						
Albertsen, Albert C., assignor to C. E. Patrick, Chicago, Ill. Electric cigar-lighter	525,437	Sept. 4	202	50	68	1189
Albertson, George H. (See Patterson, Lemmel, assignor.)						
Albertson, John A. Lansford, and J. H. Fisher, Siegfried's Bridge, Pa. Cement-mill	524,233	Aug. 7	448	{ 105 106 }	{ 68 }	743
Albrecht, Charles J. (See Weidauer, Rudolph, assignor.)						
Albrecht, John, Massillon, Ohio. Combined rail chair and tie	526,603	Sept. 25	2229	532	68	1598
Albrecht, John, Massillon, Ohio. Combined rail chair and tie	526,604	Sept. 25	2230	532	68	1599
Albrecht, John, Massillon, Ohio. Combined rail chair and tie	529,097	Nov. 13	1038	250	69	854
Albrecht, John, Massillon, Ohio. Combined rail chair and tie	530,496	Dec. 11	747	184	69	1369
Albright, E. S. (See Metcalf, Benjamin F., assignor.)						
Albright, William D., Greenville, Ohio. Fence-stay	530,916	Dec. 18	1464	347	69	1513
Albro, Frank E., Mayville, N. Y. Eaves-trough hanger	521,357	June 12	1086	255	67	1409
Alden, T. C., <i>et al.</i> (See Anderson, Edwin N., assignor.)						
Alden Type Machine Company. (See Johnson, Louis K., assignor.)						
Alden Type Machine Company. (See Johnson and Low, assignors.)						
Alderman, J. F. (See Goodwin, John, assignor.)						
Aldred, James L., Pulaski, Ill. Plow	526,122	Sept. 18	1393	324	68	1429
Aldrich, Orlando W., and S. M. Hall, Columbus, Ohio. Fire-extinguisher	514,534	Feb. 13	932	235	66	1046
Aletter, Henry, <i>et al.</i> (See Heisler, Charles L., assignor.)						
Alexander, Charles B. (See Alexander, Horace G. and C. B.)						
Alexander, Daniel P., <i>et al.</i> (See Maley, Fredrick W., assignor.)						
Alexander, Emra W., and H. Groschwitz, Philadelphia, Pa. Conductor-coil for armatures and field-magnets and making same	529,992	Nov. 27	2616	627	69	1175
Alexander, Harry, New York, N. Y. Conduit supply system for electric railways	521,326	June 12	1017	240	67	1395
Alexander, Helen L., Washington, D. C. Veil-clasp	517,970	Apr. 10	917	229	67	188
Alexander, Horace G. and C. B., Londonderry, Vt. Corner-stay for boxes or analogous receptacles	529,057	Nov. 13	967	228	69	842
Alexander, James D., Nashville, Tenn. Aerial ladder	517,320	Mar. 27	2662	624	66	2001
Alexander, James G. (See Fry, John H., assignor.)						
Alexander, Jesse B. (See Riley, James E., assignor.)						
Alexander, Oscar, New York, N. Y. Folding bedstead	512,674	Jan. 16	1565	377	66	323
Alexander, Robert E., Forest City, Pa. Car-replacer	523,563	July 24	2406	{ 602 603 }	{ 68 }	495
Alexander, Samuel. (See Hagen, Martin P., assignor.)						
Alexander, Theophilus W., Burlington, Iowa. Oil or gasoline can	526,338	Sept. 18	1759	418	68	1500
Alexander, William, Birkenhead, and W. E. Thompson, Liverpool, England. Coin-controlled gasometer	526,138	Sept. 18	1418	{ 330 331 332 }	{ 68 }	1434
Alexander, William A., Manhattan, Kans. Match-holder and cigar-cutter	513,472	Jan. 30	2896	714	66	681
Alexander, William G., Bozeman, Mont. Bell-ringing mechanism	528,134	Oct. 30	2469	597	69	515
Alfonso, Crecencio, Ranchuelo, Cuba. Tubular boiler	525,248	Aug. 28	2209	{ 537 538 }	{ 68 }	1107
Algeo, Charles C., assignor of one-half to W. I. Steel, Philadelphia, Pa. Sash-fastener	521,691	June 19	1670	392	67	1533
Alfield, Rudolf, New York, N. Y. Wardrobe-trunk	514,585	Feb. 13	1021	257	66	1063
Alker, Charles. (See Borman and Alker.)						
Alker, John H., assignor to Oliver Iron and Steel Company, Pittsburg, Pa. Bolt-heading machine	530,076	Dec. 4	1	1, 2	69	1215
Allardyce, John M., Galveston, Tex. Machine for cutting stick-candy	531,024	Dec. 18	1753	418	69	1564
Albbe, Edward P., Boston, Mass. Paper-dampening device for printing-presses	514,637	Feb. 13	1109	276	66	1080
Allbright, William B. (See Burnham, John P., assignor.)						
Allegret, Augustin. (See Blanchon and Allegret.)						
Allen, Addison. (See Manning, Charles E., assignor.)						
Allen, Alfred. (See Brown and Allen.)						
Allen, Alfred A., Somerville, and C. P. Allen, Lynn, Mass. Sash-fastener	528,707	Nov. 6	325	80	69	705
Allen, Arthur M., West New Brighton, N. Y. Vehicle-wheel	516,149	Mar. 6	668	156	66	1578
Allen & Brother. (See Allen, James C., assignor.)						
Allen, Charles, Wausa, Nebr. Rein-guard	523,258	July 17	1888	474	68	386
Allen, Charles E., Salem, Mass. Circuit-closer	517,401	Mar. 27	2829	662	66	2035
Allen, Charles E., Salem, Mass. Electrical keyboard	517,402	Mar. 27	2830	662	66	2035
Allen, Charles M. (See Murray and Allen.)						
Allen, Charles M., Butte, Mont. Converting and smelting precious ores	519,217	May 1	506		67	635
Allen, Charles M., Butte, Mont. Converter for smelting ores	519,218	May 1	507	{ 122 123 }	{ 67 }	635
Allen, Charles M., Butte, Mont. Converter	519,219	May 1	508	123	67	636
Allen, Charles M., Butte, Mont. Converter	519,220	May 1	509	123	67	636
Allen, Charles M., Butte, Mont. Smelting-furnace and refining-converter	519,221	May 1	510	124	67	636
Allen, Charles M., Butte, Mont. Process of and mechanism for smelting ores	522,446	July 3	473	120	68	94
Allen, Charles M., assignor of one-half to R. T. Murray, San Francisco, Cal. Electromagnetic tractile device	525,523	Sept. 4	340	84	68	1214
Allen, Charles P. (See Allen, Alfred A. and C. P.)						
Allen, David F., Richburg, N. Y. Rotary engine	530,874	Dec. 11	1384	330	69	1482
Allen, David P., Beacon, Iowa. Charger	528,843	Nov. 6	591	140	69	754
Allen, E. V., <i>et al.</i> (See Neeley, Joseph P., assignor.)						
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Guiding and pile-controlling device for carpet-sewing machines	524,994	Aug. 28	1763	430	68	1029
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Guide for carpet-sewing machines	524,995	Aug. 28	1764	430	68	1029
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine	524,996	Aug. 28	1766	{ 430 431 432 }	{ 68 }	1029
Allen, Edward B., Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Carpet holding and sewing apparatus	524,997	Aug. 28	1770	{ 432 433 }	{ 68 }	1030
Allen, Edward E., <i>et al.</i> (See Bowers, Lewis M., assignor.)						
Allen, Edward H., Cramer's Hill, N. J. Trolley-wire crossing	519,519	May 8	1067	256	67	753

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
Allen, Elbridge G., Boston, Mass. Railway-car.....	513,471	Jan. 30	2893	{ 713 714 }	66	681
Allen, Ethan, assignor of one-half to D. W. Case, St. Louis, Mo. Car-brake.....	531,287	Dec. 18	2137	512	69	1634
Allen, Frank H., <i>et al.</i> (See Kingsbury, Arthur L., assignor.)						
Allen, Frederick E., assignor of one-half to P. J. Ryan, Boston, Mass. Broom-holder.....	512,597	Jan. 9	1438	347	66	283
Allen, Frederick E., Lynn, Mass., assignor to Lynn Novelty Manufacturing Company, Lynn, Mass., and Kittery, Me. Key-fastener.....	525,175	Aug. 28	2109	512	68	1089
Allen, George H., <i>et al.</i> (See Tonns, Lewis N., assignor.)						
Allen, Harvey, assignor of one-half to J. J. and J. C. Snyder, Norfolk, Va. Crate.....	519,222	May 1	511	124	67	636
Allen, Henrietta, administratrix. (See Allen, Levi G.)						
Allen, Henry M., Milwaukee, Wis. Magazine for stoves or furnaces.....	512,262	Jan. 9	879	213	66	179
Allen, Herod W., Latta, S. C. Stalk-cntter.....	527,230	Oct. 9	903	{ 218 219 }	69	184
Allen, Isaac C., Williamsport, Pa. Wire fence.....	515,316	Feb. 27	2223	551	66	1315
Allen, James C., assignor to Allen & Brother, Philadelphia, Pa. Reclining-chair.....	514,403	Feb. 6	712	180	66	987
Allen, James M., and A. J. Welcker, St. Louis, Mo. Momentum water-elevator.....	525,305	Aug. 28	2298	558	68	1126
Allen, John E., Detroit, Mich. Steering-gear.....	530,154	Dec. 4	130	35	69	1239
Allen, John J., Denver, Colo. Picture-frame.....	520,385	May 22	2529	611	67	1051
Allen, John M., Marion, Mass. Hand-bag.....	518,478	Apr. 17	1810	448	67	363
Allen, John P., Sr., Dawson, Ga. Seed-planter or guano-distributor.....	516,639	Mar. 20	1503	359	66	1765
Allen, Justus M., and J. Parker, Philadelphia, Pa. Driving mechanism for bicycles, &c.....	517,373	Mar. 27	2748	646	66	2019
Allen, Levi G., deceased, Mannsville, N. Y.; H. Allen, administratrix. Hot-water heating system.....	529,098	Nov. 13	1039	{ 250 251 }	69	855
Allen, Manson B., Battle Creek, Mich. Fastening for fishing-tackle.....	527,259	Oct. 9	952	231	69	192
Allen, Oscar M., Sr., <i>et al.</i> (See Harris, Levi, assignor.)						
Allen, Solomon. (See Brown and Allen.)						
Allen, Sydney E., Winston, N. C. Combined brace, clamp, step fastening, and support for step-ladders.....	529,993	Nov. 27	2617	628	69	1175
Allen, Thomas H., Toronto, Canada. Car-brake.....	520,384	May 22	2528	611	67	1051
Allen, Thomas P. (See Gray, Thomas L., assignor.)						
Allen, Walter A., New York, N. Y. Apparatus for the manufacture of gas.....	531,144	Dec. 18	1868	{ 443 444 }	69	1586
Allen, Walter L., assignor of two-thirds to F. W. Browning, Norwich, Conn. Machine for folding or plating paper.....	519,465	May 8	947	{ 230 231 }	67	733
Allen, William B., Allentown, La. Saw-filing machine.....	524,234	Aug. 7	451	106	68	744
Allen, William E., Providence, R. I., assignor to G. Draper & Sons, Hopedale, Mass. Spindle-bearing.....	513,227	Jan. 23	2482	599	66	566
Allen, William H., trustee. (See Bacon, Charles H., assignor.)						
Allen, William H., Philadelphia, Pa. Signaling device for railways.....	524,519	Aug. 14	958	235	68	853
Allen, William P. (See Graham and Allen.)						
Allen, William Y., Boston, Mass. Hat-fastening device.....	513,029	Jan. 16	2187	522	66	439
Allen, William Y., Boston, Mass. Vibrating target.....	518,930	Apr. 24	2582	638	67	516
Allen, William Y., Boston, Mass. Traveling target.....	518,931	Apr. 24	2582	639	67	517
Allen, Willie R. D. (See Harris and Allen.)						
Allesson, John, assignor of one-half to A. Adams, St. Paul, Minn. Rope-clamp.....	522,575	July 10	689	175	68	151
Aller, Carl, Detroit, Mich. Fire-escape.....	513,972	Feb. 6	2	1	66	855
Alley, John F., Norton, Va. Gage-brace.....	521,579	June 19	1479	346	67	1497
Alfree, James B., Indianapolis, Ind. Clutch-coupling.....	522,395	July 3	386	99	68	76
Allgemeine Elektricitäts-Gesellschaft. (See Dolivo-Dobrowsky, Michael von, assignor.)						
Allen, Laurent H., New York, N. Y. Sword-belt and hanger.....	514,804	Feb. 13	1379	347	66	1132
Alting, Charles B. (See Hemphill, Joshua D., assignor.)						
Altingham, James, Minneapolis, Minn. Heating and cooking device.....	517,321	Mar. 27	2663	625	66	2001
Altingham, Luther W., Los Angeles, Cal. Heliomotor.....	514,669	Feb. 13	1159	288	66	1089
Allis, Abram O. (See Wells and Allis.)						
Allison, Samuel B., New Orleans, La. Water or fluid filter.....	513,551	Jan. 30	3045	750	66	709
Allison, Silas, Ottawa, Kans. Wire-stretcher.....	528,218	Oct. 30	2610	629	69	540
Allmon, Milton, Benton, Ill. Stump-puller or load-lifter.....	521,251	June 13	885	209	67	1370
Allstädt, August, Heidelberg, Germany. Hat-measuring apparatus.....	530,673	Dec. 11	1068	260	69	1424
Allyn, Atheon C., Boston, Mass. Station-indicator.....	525,176	Aug. 28	2109	513	68	1089
Alm, Janos A., Chicago, Ill. Tailor's measure.....	515,511	Feb. 27	2531	627	66	1372
Almont, Frank C., assignor of one-half to W. B. Stevens, Sibley, Iowa. Grain-elevator for self-binding harvesters.....	516,421	Mar. 13	1128	269	66	1679
Almy, Bradford. (See Terry, Eugene, assignor.)						
Almy, Ferdinand B., Providence, R. I. Presser-foot attachment for sewing-machines.....	523,827	July 31	2880	715	68	599
Alpaugh, Ephraim, Preston, Canada. Land-roller.....	516,175	Mar. 13	710	167	66	1601
Alsop, Charles R., assignor to L. C. Alsop, Middletown, Conn. Electric railway-signal.....	521,455	June 19	1269	296	67	1459
Alsop, Charles R., assignor to L. C. Alsop, Middletown, Conn. Railway-annunciator.....	527,098	Oct. 9	686	169	69	143
Alsop, Charles R., assignor to L. C. Alsop, Middletown, Conn. Electric track-signal.....	527,099	Oct. 9	688	169	69	144
Alsop, Lucy C. (See Alsop, Charles R., assignor.)						
Alsop, William, and W. Blackall, Newcastle, New South Wales. Apparatus for cooling and drying air.....	520,130	May 22	2097	{ 509 510 }	67	968
Alston, Mathew, Adrian, Ill. Gate.....	514,611	Feb. 13	1066	266	66	1071
Alston, Samuel L., Galveston, Tex. Swing.....	529,232	Nov. 13	1273	306	69	896
Alstrom, Charles, <i>et al.</i> (See Johanson, Emil G., assignor.)						
Altbrandt, Benjamin C., Detroit, Mich. Steam-trap.....	512,263	Jan. 9	880	213	66	179
Altburg, Christian L. O., New York, N. Y. Treble-bridge for pianos.....	529,994	Nov. 27	2618	628	69	1175
Alter, Isaac B., Rossville, Kans. Check-book.....	517,323	Mar. 27	2668	626	66	2002
Altham, George J., Swansea, Mass. Governor.....	519,785	May 15	1506	{ 366 367 }	67	847
Altham, George J., Swansea, Mass. Power-transmitting apparatus.....	526,887	Oct. 2	360	90, 91	69	67
Altians, John H., and J. Ruckstinat, Providence, R. I. Dough molding and dividing machine.....	527,579	Oct. 16	1486	361	69	304
Altiof, Julius H., New York, N. Y. Breech-loading ordnance.....	519,308	May 1	668	{ 162 163 }	67	666
Althouse, Milo J., Waupun, Wis. Brace-lock for windmill-towers.....	525,324	Sept. 4	1	1	68	1151
Althouse, Nathan S., <i>et al.</i> (See Cavanaugh, James D., assignor.)						
Altland, Samuel H., Indianapolis, Ind., and S. Mayer, Cincinnati, Ohio. Hat-conformator.....	527,472	Oct. 16	1316	321	69	275
Altman, William H. (See Bernhardt, Charles, assignor.)						
Alton Novelty Manufacturing Company <i>et al.</i> (See Garstang, Richard, assignor.)						
Altper, Francis W., Chicago, Ill. Draftsman's rule.....	521,597	June 19	1513	354	67	1562
Altper, Francis W., Chicago, Ill. Draftsman's rule.....	530,741	Dec. 11	1178	287	69	1443
Alverson, Emma A. (See Alverson, James W., assignor.)						
Alverson, James W., Brighton, assignor to E. A. Alverson, Pittsford, N. Y. Wire-twister.....	514,692	Feb. 13	1195	298	66	1096

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Alverson, James W., assignor to E. A. Alverson, Brighton, N. Y. Wire fence	529,543	Nov. 20	1852	441	69	1022
Alvord, Clinton. (See Schaum and Alvord.)						
Am Ende, Otto W. T., Bad Harzburg, Germany. Thickness-gage for paper-making machines	521,976	June 26	2189	{ 526 527 }	67	1647
Amberg, Philip M. (See Thomas, Edgar, assignor.)						
Ambjörn, Pierre, Paris, France. Wheel	530,983	Dec. 18	1579	{ 374 375 }	69	1532
Ambler, Arthur A., St. Paul, Minn. Book-holder	520,627	May 29	2924	{ 707 708 }	67	1140
Ambler, George A., Newark, N. J., assignor to Wire Grip Fastening Company, Chicago, Ill. Duplex nailing-machine	525,066	Aug. 28	1907	{ 466 467 }	68	1055
Ambrose, John F. (See Thompson, Harry, assignor.)						
Ambrose, Lewis F., Center Point, Ind. Carpet-fastener	529,350	Nov. 20	1480	356	69	957
Ambrose, Robert L., Burden, N. Y. Valve mechanism for rock-drills	518,212	Apr. 17	1347	336	67	279
Amend, Otto P., New York, N. Y. Mordanting fabrics	512,264	Jan. 9	881	-----	66	179
Amende, William C. H., San Diego, Cal. Automatic check for horses	513,629	Jan. 30	3176	780	66	732
Ament, Elzie, Rogers Park, Ill. Sash-fastener	516,957	Mar. 20	2031	481	66	1864
American Automatic Knife and Novelty Company. (See Bülzingslöwen, Bruno von, assignor.)						
American Battery Company. (See Morrison, William, assignor.)						
American Bell Telephone Company. (See Blake, Charles C., assignor.)						
American Bell Telephone Company. (See Collier, Arthur T., assignor.)						
American Bell Telephone Company. (See Field, Stephen D., assignor.)						
American Bell Telephone Company. (See Gilliland, Ezra T., assignor.)						
American Bell Telephone Company. (See Jacques, William W., assignor.)						
American Bell Telephone Company. (See McCulloch, Alfred H., assignor.)						
American Bell Telephone Company. (See O'Connell, Joseph J., assignor.)						
American Bell Telephone Company. (See Richards, Wilton L., assignor.)						
American Bell Telephone Company. (See Spencer, Theodore, assignor.)						
American Bell Telephone Company. (See Wales, Thomas C., Jr., assignor.)						
American Bell Telephone Company. (See White, Anthony C., assignor.)						
American Bottle Company. (See Ashley, Howard M., assignor.)						
American By-Product and Coke Oven Company. (See Shrewsbury, Albert D., assignor.)						
American Carving and Manufacturing Company. (See Morgeneier, Robert, assignor.)						
American Cereal Company. (See Burgess, Alexander, assignor.)						
American Egg Case Company. (See Herr, Harvey E., assignor.)						
American Egg Case Company. (See Herr, Henry C., assignor.)						
American Electric Heating Company. (See Jenkins, Samuel B., assignor.)						
American Extract and Supply Company. (See White and Lagerwall, assignors.)						
American Fire Engine Company. (See Ahrens, Christopher, assignor.)						
American Lace and Fancy Paper Works. (See Karfol, Benzion, assignor.)						
American Lead Company. (See Browne, Arthur B., assignor.)						
American Lead Pencil Company. (See Goldsmith and Burt, assignors.)						
American Manufacturing and Engineering Company. (See Miner, Willard M., assignor.)						
American Mining Tool Company. (See Jopling, James, assignor.)						
American Mosaic Brick and Tile Company. (See Polivka, Thomas, assignor.)						
American Optical Company. (See De Celles, Joseph H. E., assignor.)						
American Postal Machines Company. (See Echridge, Frank N., assignor.)						
American Postal Machines Company. (See Ethridge, Martin V. B., assignor.)						
American Railway Electric Light Company. (See Biddle, William, assignor.)						
American Railway Electric Light Company. (See Biddle and Kennedy, assignors.)						
American Sanitary and Manufacturing Company. (See Nailor, Henry B., assignor.)						
American Soap and Washoline Company. (See Andrae, Michael, assignor.)						
American Soda Fountain Company. (See Lippincott, Fisher H., assignor.)						
American Soda Fountain Company. (See Macksey and Helmer, assignors.)						
American Soda Fountain Company. (See Macksey, Helmer, and Barton, assignors.)						
American Soda Fountain Company. (See Tufts and Helmer, assignors.)						
American Steel Barge Company. (See McDougall, Alexander, assignor.)						
American Sulphite Pulp Company. (See Norton, Joshua, Jr., assignor.)						
American Telephone and Telegraph Company. (See Lane and Perrin, assignors.)						
American Tobacco Company. (See Marburg, Charles L., assignor.)						
American Tobacco Company. (See Peterson, Jonathan, assignor.)						
American Type Founders Company. (See Ziegler, George H., assignor.)						
American Valve and Governor Company. (See Schmid, Charles, assignor.)						
American Washboard Company. (See Miller, Morgan B., assignor.)						
American Wood Decorating Machine Company. (See Davis, Llewellyn P., assignor.)						
American Wood Pulp Company. (See Tracy, Edward A., assignor.)						
Amerman, Charlotte M., Onarga, Ill. Attachment for school-desks	515,735	Mar. 6	1	1	66	1455
Ames, Charles L., Ridgeland, Ill. Pneumatic tire	517,414	Mar. 27	2855	668	66	2040
Ames, Charles L., Ridgeland, Ill. Tire for wheels	517,415	Mar. 27	2856	669	66	2040
Ames, Charles L., Oak Park, Ill. Vehicle-wheel	521,692	June 19	1671	392	67	1533
Ames, Franklin, Chicago, Ill. Apparatus for sewing carpet-corners	520,909	June 5	283	68, 69	67	1249
Ames, Franklin, Chicago, Ill. Carpet-stretcher for carpet-sewing apparatus	520,910	June 5	285	69, 70	67	1249
Ames, Franklin, Chicago, Ill. Mechanism for sewing carpet-corners	524,079	Aug. 7	185	42	68	695
Ames, Gorham B., Laconia, N. H. Guard-rail	522,038	June 26	2299	551	67	1666
Ames Iron Works. (See Armstrong, Edwin J., assignor.)						
Ames, John H. (See Yale and Ames.)						
Ames, Oakes, Canton, Mass., assignor to Meteor Despatch Company, Portland, Me., and Boston, Mass. Terminal for pneumatic dispatch-tubes	527,039	Oct. 9	605	147	69	129
Ames, Oakes, Canton, Mass., assignor to Meteor Despatch Company, Portland, Me., and Boston, Mass. Pneumatic cash-carrier apparatus	527,040	Oct. 9	606	147	69	129
Ames, Oakes, Canton, Mass., assignor to Meteor Despatch Company, Portland, Me., and Boston, Mass. Pipe-coupling	530,917	Dec. 18	1465	347	69	1513
Ames, William H., North Easton, Mass. Hydrocarbon-burner	516,069	Mar. 6	545	127	66	1554
Ames, William H., North Easton, Mass. Hydrocarbon-burner	516,070	Mar. 6	547	127	66	1554
Amet, Edward H., Chicago, Ill. Erasing attachment for phonographs	521,456	June 19	1270	296	67	1459
Amies, Joseph H., Philadelphia, Pa., assignor to Amies Pavement Company, Camden, N. J. Fibrous pavement	512,645	Jan. 9	1524	-----	66	300
Amies, Joseph H., Philadelphia, Pa., assignor to Amies Pavement Company, Camden, N. J. Paving-block	525,832	Sept. 11	902	-----	68	1327
Amies, Joseph H., Philadelphia, Pa., assignor to Amies Pavement Company, Camden, N. J. Pavement of plastic composition	530,077	Dec. 4	3	2	69	1215
Amies Pavement Company. (See Amies, Joseph H., assignor.)						
Ammerman, Charles W., Greenwood, Delaware. Sash holder and fastener	530,078	Dec. 4	4	2	69	1215

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Ammon, Charles T., Wooster, Ohio. School desk and seat.....	520,026	May 22	1900	464	67	935
Amoroso, Alfonso. (See Scognamiglio, Salvatore, assignor.)						
Amorphous White Lead Company. (See Waller and Sniffin, assignors.)						
Amos, George W., Chicago, Ill. T-square attachment.....	530,060	Nov. 27	2743	658	69	1199
Amos, Jacob. (See Harvey and Amos.)						
Amos, Lucy S., Jewett, Ohio. Wire-crosser.....	523,096	July 17	1573	395	68	329
Ams, Max, New York, N. Y. Millstone.....	523,320	July 24	1965	499	68	421
Amsden, Otho F., Athol, Mass. Relishing-machine.....	518,017	Apr. 10	1002	251	67	201
Amthor, August, Waltershausen, Germany. Tune-sheet for automatic musical instru- ments.....	529,995	Nov. 27	2619	{ 628 629 }	{ 69 69 }	{ 1175 721 }
Amundson, Olaf A., Chicago, Ill. Printer's quoin.....	528,756	Nov. 6	411	99	69	721
Andersberg, Pehr A., Chelsea, Mass. Guitar.....	516,717	Mar. 20	1636	329	66	1789
Andersen, Christen P., Copenhagen, Denmark. Compound for renovating fabrics.....	524,410	Aug. 14	738		68	622
Andersen, Johan M. (See Dey and Andersen.)						
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Insulator.....	522,175	June 26	2528	607	67	1710
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Power-hammer.....	522,701	July 10	897	221	68	188
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Trolley-wire switch.....	524,672	Aug. 14	1206	295	68	900
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Trolley-wire hanger.....	529,058	Nov. 13	967	229	69	842
Andersen, Johan M., assignor of one-half to A. Anderson, Boston, Mass. Electric-conduc- tor support.....	531,354	Dec. 25	2253	538	69	1671
Andersen, Niels M., assignor of one-half to C. E. Bickford, Omaha, Nebr. Means for ad- justing electric lamps.....	513,066	Jan. 16	2240	539	66	450
Anderson, Abraham, assignor to G. D. Colton & Company, Galesburg, Ill. Corn-planter..	516,176	Mar. 13	711	{ 167 168 }	{ 66 66 }	{ 1601. 1602 }
Anderson, Abraham, assignor to G. D. Colton & Company, Galesburg, Ill. Automatic check-row corn-planter.....	516,177	Mar. 13	716	{ 169 168 }	{ 66 66 }	{ 1602 1602 }
Anderson, Albert. (See Andersen, Johan M., assignor.)						
Anderson, Alfred, Des Moines, Iowa. Water-heating furnace.....	526,096	Sept. 18	1347	313	68	1421
Anderson, Alva E., Clarksville, Tex. Baling-press.....	520,762	June 5	1	1	67	1197
Anderson, Andrew T. (See Irvine and Anderson.)						
Anderson, Axel, Ronda, Tex. Field thrashing-machine.....	531,085	Dec. 18	1755	{ 418 419 }	{ 69 69 }	{ 1564 1050 }
Anderson, Benjamin C., assignor to M. H. Anderson, Brooklyn, N. Y. Stop-cock box.....	529,638	Nov. 20	2000	478	69	1050
Anderson, Carl A., Lynn Center, Ill. Fastening device for end-gates.....	517,912	Apr. 10	813	204	67	171
Anderson, Carl A., Lynn Centre, Ill. Brake-lever.....	521,252	June 12	886	209	67	1371
Anderson, Carl E., Wood's Holl, Mass. Line-chalking apparatus.....	517,720	Apr. 3	515	125	67	100
Anderson, Carl G. (See Lemp and Anderson.)						
Anderson, Carl G. (See Lemp, Anderson, and Landmann.)						
Anderson, Carl G., Lynn, Mass. Electrically-propelled drive-wheel.....	513,859	Jan. 30	3546	873	66	803
Anderson, Carl P., Boston, Mass. Car-fender.....	517,638	Apr. 3	367	87	67	71
Anderson, Charles, Detroit, Mich. Side light.....	521,777	June 26	1835	437	67	1579
Anderson, Charles, assignor to South Bend Iron Works, South Bend, Ind. Sulky-plow....	521,969	June 26	2174	522	67	1644
Anderson, Con D., assignor of one-half to J. K. Mower, Springfield, Ohio. Coffee-mill.....	528,499	Oct. 30	3092	750	69	628
Anderson, David H. (See Foley, Dunshee, and Anderson.)						
Anderson, Edwin N., Lily Dale, N. Y. Axle-nut.....	531,245	Dec. 18	2058	491	69	1619
Anderson, Edwin N., assignor of two-thirds to T. C. Alden, Lilly Dale, N. Y., and E. W. Morley, Andover, Ohio. Car-coupling.....	519,520	May 8	1068	256	67	754
Anderson, Ellen H. (See Fewkes, Joseph T., assignor.)						
Anderson, Emery. (See Patterson and Anderson.)						
Anderson, Emil, Woburn, Mass. Grass-collector for lawn-mowers.....	513,358	Jan. 23	2701	656	66	609
Anderson, Erwin W., Rhinelander, Wis. Tongue-support for sleighs.....	529,351	Nov. 20	1421	356	69	957
Anderson, Francis J., and W. M. Erick, Gainesville, Tex. Book-holder for reading-stands.	524,926	Aug. 21	1643	402	68	990
Anderson, Frank M., Keokuk, Iowa. Fruit-peeling table.....	517,511	Apr. 3	158	35	67	32
Anderson, Frank M., Keokuk, Iowa. Cooking device for fruit-canning.....	522,748	July 10	1008	249	68	206
Anderson, Frank M., Keokuk, Iowa. Fruit-peeling table.....	524,998	Aug. 28	1778	434	68	1032
Anderson, Frederick E., Chicago, Ill. Barrel-washer.....	517,091	Mar. 27	2285	538	66	1928
Anderson, Frederick E., Chicago, Ill. Bottle-washer.....	524,053	Aug. 7	136	31	68	687
Anderson, George S. and R. C., Jeffersonville, Ind. Cutter-cylinder for feed-cutters.....	523,756	July 31	2970	739	68	616
Anderson, Gerda A., New York, N. Y. Veil-fastener.....	528,062	Oct. 23	2329	562	69	475
Anderson, Gustaf H. (See Enqvist, Carl W., assignor.)						
Anderson, Gustav, Wells, Minn. Automatic grain-measurer.....	513,697	Jan. 30	3292	811	66	753
Anderson, Gustav, Wells, Minn. Band-cutter and feeder.....	513,698	Jan. 30	3296	812	66	754
Anderson, Gustav, Minneapolis, Minn. Grain-meter.....	513,699	Jan. 30	3299	{ 812 813 }	{ 66 66 }	{ 754 755 }
Anderson, Gustav, Minneapolis, Minn. Grain-bagger.....	513,700	Jan. 30	3301	813	66	755
Anderson, Gustav E., Philadelphia, Pa., assignor to Fairmount Machine Company, of Penn- sylvania. Clutch.....	512,932	Jan. 16	2039	483	66	412
Anderson, Gustav E., Philadelphia, Pa., assignor to Fairmount Machine Company, of Penn- sylvania. Clutch.....	512,933	Jan. 16	2040	483	66	412
Anderson, Gustav, Wells, assignor to Minneapolis Threshing Machine Company, Minne- apolis, Minn. Grain-weigher.....	523,191	July 17	1770	{ 443 444 }	{ 68 68 }	{ 364 364 }
Anderson, Henry B. (See Williamson, David, assignor.)						
Anderson, Holman M., assignor of one-half to J. J. Barkley, Chicago, Ill. Lifting-jack....	514,893	Feb. 20	1531	383	66	1175
Anderson, Holman M., assignor of one-half to J. J. Barkley, Chicago, Ill. Wire fence.....	514,894	Feb. 20	1533	{ 383 384 }	{ 66 66 }	{ 1176 1176 }
Anderson, J. Will, et al. (See Himes, Jndson W., assignor.)						
Anderson, James, Nevada, Mo. Corn-harvester.....	517,830	Apr. 10	683	170	67	147
Anderson, James C., Highland Park, Ill. Method of and apparatus for burning garbage, or other refuse material.....	526,223	Sept. 18	1661	{ 392 393 }	{ 68 68 }	{ 1479 1480 }
Anderson, James C., Chicago, Ill. Apparatus for burning garbage or other refuse material.	526,224	Sept. 18	1664	393	68	1480
Anderson, James W., and R. S. Twiss, Elwood, Iowa. Harness.....	528,709	Nov. 6	327	80	69	706
Anderson, John D., Brooklyn, N. Y. Sewer-pipe coupling.....	514,432	Feb. 13	753	193	66	1013
Anderson, John D., Brooklyn, N. Y. Pipe-coupling.....	526,097	Sept. 18	1348	314	68	1421
Anderson, John E., Carbon, Wyo. Castrating-instrument.....	527,309	Oct. 9	1039	252	69	207
Anderson, John W., Philadelphia, Pa. Dental articulator.....	529,010	Nov. 13	893	211	69	829
Anderson, John W., assignor to O. N. Anderson, Lancaster, Pa. Damper.....	517,993	Apr. 10	966	241	67	195
Anderson, Jonah, et al. (See Bright, William H., assignor.)						
Anderson, Latham, and L. M. Hosea, Cincinnati, Ohio. Railway-rail joint.....	517,829	Apr. 10	681	170	67	147
Anderson, Lawrence A., Cincinnati, Ohio. Elastic-tread horseshoe.....	526,671	Oct. 2	1	1	69	3
Anderson, Lee, assignor of one-half to J. J. Dickerson, B. H. Denton, and J. H. Johnston, Paris, Tex. Elevated railway.....	518,170	Apr. 10	1253	315	67	244

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Anderson, Melleney H. (See Anderson, Benjamin C., assignor.)						
Anderson, Nels M. (See Anderson, Sven J., assignor.)						
Anderson, Oliver, Deering, assignor to E. T. Burrowes, Portland, Me. Curtain-holding device	522,176	June 26	2530	607	67	1711
Anderson, Oliver N. (See Anderson, John W., assignor.)						
Anderson, Peter, New York, N. Y. Pianoforte	522,955	July 17	1349	335	68	287
Anderson, Robert C. (See Anderson, George S. and R. C.)						
Anderson, Robert L. (See Smith, William, assignor.)						
Anderson, Robert S., assignor of one-fourth to J. T. Beatty, Toronto, Canada. Pneumatic tire	523,031	July 17	1481	369	68	311
Anderson, Samuel C., Fort Worth, Tex. Buckle attachment	513,068	Jan. 23	2243	541	66	519
Anderson, Sven J., assignor of one-half to N. M. Anderson, Everett, Mass. Hot-water heating apparatus	528,061	Oct. 23	2328	561	69	474
Anderson, Theodore M., New Whatcom, Wash. Clothes-rack	528,499	Oct. 30	3091	749	69	627
Anderson, Thomas E., Jackson, Tenn. Separable button	521,776	June 26	1834	437	67	1579
Anderson, Valerius D., Cleveland, Ohio. Steam-trap	525,524	Sept. 4	341	84	68	1214
Anderson, Valerius D., Cleveland, Ohio. Press	525,525	Sept. 4	342	84	68	1214
Anderson, Valerius D., Cleveland, Ohio. Press	525,526	Sept. 4	345	85	68	1215
Anderson, Valerius D., Cleveland, Ohio. Centrifugal fan	529,689	Nov. 27	2083	499	69	1076
Anderson, William H. H., et al. (See Morton, James F., assignor.)						
Anderson, William W., New York, N. Y. Cuff-holder	520,552	May 29	2807	677	67	1118
Anderssen, Johannes, Christiania, Norway. Match-box holder	512,934	Jan. 16	2041	483	66	412
Andersson, Carl J. (See Sjöstrand and Andersson.)						
Andersson, Gustaf M., Newark, N. J., assignor to United States Butter Extractor Company, New York, N. Y. Centrifugal butter-extractor	519,691	May 15	1353	327	67	819
Andersson, Gustaf M., Newark, N. J., assignor to United States Butter Extractor Company, New York, N. Y. Centrifugal butter-extractor	520,102	May 22	2027	495	67	959
Andersson, Gustaf M., Newark, N. J., assignor to United States Butter Extractor Company, New York, N. Y. Centrifugal butter-extractor	520,131	May 22	2098	510	67	969
Andersson, Gustaf M., assignor to United States Butter Extractor Company, Newark, N. J. Centrifugal cream-separator	522,280	July 3	188	51	68	39
Andersson, Gustaf M., assignor to United States Butter Extractor Company, Newark, N. J. Centrifugal cream-separator	522,281	July 3	189	51	68	39
Andersson, Hilda K., assignor of one-half to D. Sjöström, Stockholm, Sweden. Disinfecting apparatus	528,135	Oct. 30	2470	597	69	515
Anderton, George P., Concession, La. Excavator	521,693	June 19	1672	392	67	1533
Andrae, Michael, assignor to American Soap and Washoline Company, Cohoes, N. Y. Apparatus for drying soap	525,572	Sept. 4	428	102	68	1931
André, John H., Lockwood, N. Y. Garden-hoe	522,872	July 10	1155	295	63	240
André, Oscar, Neuilly-sur-Seine, France. Post or column	527,310	Oct. 9	1040	252	69	207
Andreen, Gustave, Omaha, Nebr. Shutter worker and fastener	524,016	Aug. 7	80	18	68	677
Andreoli, Emile, London, England. Apparatus for producing ozone by electricity	512,265	Jan. 9	892	213	66	179
Andreoli, Emile, London, England. Electrolytic apparatus	512,266	Jan. 9	895	214	66	180
Andreoli, Emile, London, England. Electrolytic apparatus	525,732	Sept. 11	721	166	68	1295
Andres, Frederick H., New York, N. Y. Banjo	529,514	Nov. 20	1802	429	69	1013
Andrew, Arthur C., et al. (See Church, Dwight M., assignor.)						
Andrew, Arthur C., et al. (See Church, Dwight M., assignor.) (Reissue.)						
Andrew, Charles. (See Andrew, William and C.)						
Andrew, Henry H., and A. R. Bellamy, Reddish, near Stockport, England. Gas, oil, or similar motor-engine	526,369	Sept. 25	1831	435	68	1527
Andrew, Henry H., and A. R. Bellamy, Reddish, near Stockport, England. Gas, oil, or similar motor engine	528,063	Oct. 23	2330	562	69	475
Andrew, Moses L., Delhi, Ohio. Bit shank and chuck	525,573	Sept. 4	430	103	68	1231
Andrew, William, Cincinnati, Ohio. Tubular metal post	511,744	Jan. 2	1	1	66	3
Andrew, William and C., Cincinnati, Ohio. Tubular metallic post	519,311	May 8	679	166	67	683
Andrew, William E., Atlantic Highlands, N. J. Game-table	515,458	Feb. 27	2452	607	66	1357
Andrews, Arnelle D., Des Moines, Iowa. Mandrel for phonographs	515,811	Mar. 6	134	33	66	1478
Andrews, Charles B., assignor of one-half to C. E. Rauch, Lebanon, Pa. Machine for coiling match-splints	530,875	Dec. 11	1388	330	69	1483
Andrews, Charles B., assignor of two-thirds to C. J. Barr and T. Williams, Lebanon, Pa. Mill for rolling tapers	517,322	Mar. 27	2666	625	66	2002
Andrews, Charles B., assignor of sixteen-twentieths to T. Williams, C. J. Barr, J. K. Raubenbush, and S. P. Light, Lebanon, Pa. Sanding device for railways	528,500	Oct. 30	3093	750	69	628
Andrews Demarest Seating Company. (See Demarest, Cornelius B., assignor.)						
Andrews, Emery, Kennebunk, Me. Traveling-case for bicycles	522,186	July 3	1	1	68	3
Andrews, Fred, Minneapolis, Minn. Elevator-indicator	511,987	Jan. 2	432	102	66	82
Andrews, Henry C., et al., trustees. (See Drawbaugh, Daniel, assignor.)						
Andrews, James C., New Haven, assignor to G. D. Nichols, New Canaan, Conn. Corset	528,064	Oct. 23	2330	562	69	475
Andrews, James C., New Haven, assignor to G. D. Nichols, New Canaan, Conn. Corset	528,065	Oct. 23	2332	563	69	475
Andrews, James J., Hempstead, and T. Mott, Far Rockaway, N. Y. Safety apparatus for street-railway cars	527,646	Oct. 16	1595	385	69	324
Andrews, Leo R., Bath Beach, N. Y. Grate	526,957	Oct. 2	470	116	69	89
Andrews, Thomas C., New York, N. Y. Attachable filter	513,292	Jan. 23	2599	630	66	591
Andrews, William, Lowell, Mass. Artificial leg	518,658	Apr. 24	2113	528	67	431
Andrus, Charles H., Philadelphia, Pa. Car-coupling	522,095	June 26	2384	574	67	1683
Andrus, Sallie T., Aurora, Ill. Combination trunk, bureau, and writing-table	521,873	June 26	1978	478	67	1608
Andruss, Eugene D., Seattle, Wash. Automatic pull for water-closets	521,072	June 5	573	134	67	1300
Angell, Edwin E. (See Burton and Angell.)						
Anger, John A. (See Barry, James R., assignor.)						
Anger, John E., Green Island, N. Y. Transom-opener	517,135	Mar. 27	2353	555	66	1941
Angle, Edward H., Minneapolis, Minn. Tooth-regulator	523,192	July 17	1772	444	68	364
Angus, Alexander, Hartford, Conn. Door-bolt	517,512	Apr. 3	159	35	67	32
Angus, John J., Greenbush, Wis. Food compound	515,736	Mar. 6	2	1	66	1455
Anhaltzer, Henry, New York, N. Y. Folding baby-carriage	526,958	Oct. 2	472	117	69	89
Anker, Fannie, Jersey City, N. J. Preserving food compounds	521,694	June 19	1673	393	67	1534
Anker, Frederick L. (See Mann and Anker.)						
Annenberg, Samuel, and E. Stahl, Naugatuck, Conn. Boot or shoe	518,579	Apr. 24	1985	491	67	409
Anness, Albert. (See Ring, Smith, and Anness.)						
Ansley, John D., Cambridge, Mass. Trolley-wheel	518,362	Apr. 17	1620	399	67	328
Ansonia Electric Company. (See McEvoy, Joseph H., assignor.)						
Antton, Johann, Flensburg, Germany. Stave-jointing machine	520,873	June 5	215	48, 49	67	1236
Anthony, Alonzo D., Groton, N. Y. Bicycle-gearing	523,547	July 3	628	160	68	123

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Anthony, Daniel P., Tecumseh, Mich. Apparatus for removing incrustation from boiler-tubes.	525,177	Aug. 23	2110	513	68	1089
Anthony, Elliot E., Detroit, Mich. Brace-drill.	521,327	June 12	1020	240	67	1395
Anthony, James M. (See Beery, John H., assignor.)						
Anthony, Mark O., Cincinnati, Ohio. Transmitter for telephones.	526,888	Oct. 2	363	91	69	68
Anthony, Paul W., Fairmont, Minn. Ditching-machine.	512,085	Jan. 2	596	143	66	114
Anthony, Walter F. (See Ruffhead and Anthony.)						
Anthony, William H. (See Goode, Anthony, and Lloyd.)						
Antifriction Roller Bearing Syndicate. (See Purdon, Walters, and Woodcock, assignors.)						
Apgar, Daniel. (See Reed and Apgar.)						
Apitz, Frederick, Lockport, Ill. Electric lock.	525,400	Sept. 4	146	37	68	1177
Apollo Iron and Steel Company. (See Davis, Stewart A., assignor.)						
Apollo Iron and Steel Company. (See McMurtry, George G., assignor.)						
Apollo Iron and Steel Company. (See McMurtry and Stitt, assignors.)						
Appel, Edward. (See Clarke, George W., assignor.)						
Apperson, Elmer, Kokomo, Ind. Saw-swage.	516,693	Mar. 20	1597	381	66	1783
Appleberg, John T., Washington, D. C. Percolator for coffee-pots.	512,675	Jan. 16	1566	377	66	323
Appleby, Joseph, Birmingham, England. Drive-chain.	521,007	June 5	457	108 109	67	1279
Applegate, William C., Sharon, Pa. Line-prop.	518,479	Apr. 17	1811	418	67	363
Appleton Automatic Machinery Company. (See Appleton, Charles J., assignor.)						
Appleton, Charles J., New York, assignor to Appleton Automatic Machinery Company, Long Island City, N. Y. Circular-rib-knitting machine.	514,895	Feb. 20	1535	384	66	1176
Appleton, Henry A. (See Brett, Victor, assignor.)						
Appleton Manufacturing Company. (See Search, Casper F., assignor.)						
Appleton, Samuel, Newton, Mass. Last.	521,305	June 12	983	232	67	1388
Appleyard, Arthur E., assignor of one-half to H. J. Folsom, Boston, Mass. Electric heating apparatus.	516,071	Mar. 6	547	123	66	1555
Arbuckle, Matthew, Indianapolis, Ind. Wheel-washing device.	525,574	Sept. 4	432	103	68	1231
Arcade File Works. (See Weed, Alfred, assignor.)						
Arcade Manufacturing Company. (See Redlinger and Morgan, assignors.)						
Arch, Charles W., assignor of one-half to G. H. Traner, Eagle Grove, Iowa. Machine for grading railways, &c.	517,559	Apr. 3	236	55	67	46
Archbutt, Leonard, and R. M. Deeler, Derby, England. Apparatus for purifying water.	521,522	June 19	1387	321	67	1480
Archer, Cassie L. (See Howell and Gilbert, assignors.)						
Archer, Charles W., Cleveland, Ohio. Car-replacer.	515,946	Mar. 6	333	80	66	1515
Archer, George W., assignor to Archer Manufacturing Company, Rochester, N. Y. Head-rest.	518,771	Apr. 24	2319	576	67	468
Archer, James. (See Lucas and Archer.)						
Archer, James G., Brookfield, Mo. Hay-rake.	513,552	Jan. 30	3046	750	66	709
Archer Manufacturing Company. (See Archer, George W., assignor.)						
Arcourt, Théophile D., assignor of one-third to M. Hannon, Chicago, Ill. Pantaloon-projector.	530,475	Dec. 4	685	171	69	1341
Ardon, Joseph, Mandan, N. D. Cow-stall.	516,905	Mar. 20	1944	458	66	1847
Arendell, Falconer B., Salisbury, N. C. Filter.	529,471	Nov. 20	1720	410	69	999
Argall, Philip, Denver, Colo. Cyanid and chlorination process for treating gold or silver bearing ores.	527,473	Oct. 16	1317	321	69	275
Ariens, Henry, assignor of one-half to R. Wittke, Brillion, Wis. Tread-wheel.	528,066	Oct. 23	2333	563	69	476
Aries, Philippe P., Paris, France. Machine for covering hat-bodies with hair.	517,257	Mar. 27	2558	600	66	1981
Arkell, Bartlett. (See Matthiessen and Arkell.)						
Arkell, Bartlett, and C. A. Blowers, Canajoharie; said Blowers assignor to F. O. Matthiessen, New York, N. Y. Packing-bag.	529,690	Nov. 27	2084	499	69	1076
Arlington Manufacturing Company. (See Hunter, Randolph M., assignor.)						
Arlington Manufacturing Company. (See Schupphans, Robert C., assignor.)						
Armand, Isaiah. (See Specht and Armand.)						
Armanni, Luigi, London, England. Belt-shipper.	527,190	Oct. 9	834	203	69	170
Armat, Thomas, Washington, D. C. Conduit electric railway.	521,562	June 19	1446	336 337	67	1491
Armature Bell Company. (See Hofbauer, Frank X., assignor.)						
Armbruster, John A., Chicago, Ill. Grader and amalgamator.	517,721	Apr. 3	516	125	67	100
Armen, Arakelyan H., Lynn, Mass. Ohmmeter.	528,268	Oct. 30	2692	649	69	556
Armentrout, Lyman W., et al. (See Fuller, Franklin P., assignor.)						
Armeny, Gyulo, New York, N. Y. Machine for cutting precious stones.	523,504	July 24	2317	583	68	478
Armer, Isidor, Breslau, Germany. Wind-harp for bicycles.	513,168	Jan. 23	2396	579	66	550
Armistead, Fabian H., Farmville, Va., assignor of one-fourth to J. R. Spencer and E. W. Speed, Hill City, S. D. Unicycle.	531,086	Dec. 18	1758	419 420	69	1565
Armistead, Fabian H., Roanoke, assignor of one-fourth to H. T. Parrish, S. J. Kennedy, A. M. Cassel, and G. Richardson, Farmville, Va. Unicycle.	514,612	Feb. 13	1067	267	66	1071
Armitage, Frederick E., Jamestown, N. Y. Coin sorting and packaging device.	522,310	July 3	232	62	68	47
Armitage, Frederick E., Jamestown, N. Y. Coin-holder.	522,311	July 3	234	62	68	47
Armitage, James, A. and G. C. Herschell, North Tonawanda, N. Y. Roundabout.	531,403	Dec. 25	2338	557 558	69	1088
Arns, Henry F. (See Lee, Kenneth, assignor.)						
Armstrong, Benjamin L., New London, Conn. Thread-package.	523,139	July 17	1672	418	68	347
Armstrong, Charles M., Toledo, Ohio. Composition for plastering walls.	516,462	Mar. 13	1203	.....	66	1693
Armstrong, Charles W., et al. (See Collett, Herbert E., assignor.)						
Armstrong, Christian D., St. Bernard, La. Sugar-cane-transferring device.	520,720	May 29	3093	749	67	1171
Armstrong, Dwight M., et al. (See Johnson, William C., assignor.)						
Armstrong, Edwin J., assignor to Ames Iron Works, Oswego, N. Y. Device for securing piston-rods to cross-heads.	521,695	June 19	1674	393	67	1534
Armstrong, Eliphalet, Bellville, Ohio. Metallic ceiling.	521,696	June 19	1676	393	67	1534
Armstrong, George F., Philadelphia, Pa. Truck.	513,748	Jan. 30	3373	832	66	768
Armstrong, George W., Avinger, Tex. Fruit-picker.	515,852	Mar. 6	197	46	66	1489
Armstrong, Harry W., Oakmont, Pa. Rail-bender.	527,100	Oct. 9	690	169 170	69	144
Armstrong, Harry W., Oakmont, Pa. Valve-gear for steam-engines.	528,757	Nov. 6	413	100	69	722
Armstrong, J. J., et al. (See Nier, William, assignor.)						
Armstrong, James, et al. (See Nier, William, assignor.)						
Armstrong, Louis E., Fort Dodge, Iowa. Foot-rest for rocking-chairs.	513,169	Jan. 23	2397	579	66	550
Armstrong, Louis E., Fort Dodge, Iowa. Foot-rest for rocking-chairs.	513,170	Jan. 23	2400	580	66	551
Armstrong Manufacturing Company. (See Cash, Arthur W., assignor.)						
Armstrong, Meylert M., Philadelphia, Pa. Smokeless combustion of fuel.	522,187	July 3	2	1	68	3

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Armstrong, Milton W., <i>et al.</i> (See Turner and Fletcher, assignors.)						
Armstrong, Mitchell & Co., W. G. (See Lloyd and Hutchinson, assignors.)						
Armstrong, Mitchell & Co., W. G. (See Noble and Brankston, assignors.)						
Armstrong, Mitchell & Co., W. G. (See Noble and Murray, assignors.)						
Armstrong, Ross, Onawa, Iowa. Magic toy	513,450	Jan. 23	2552	699	66	638
Armstrong, Shubael T., Sycamore, Ill., assignor of one-tenth to F. A. Cole, Plymouth, Mich. Smoke-consuming furnace	517,324	Mar. 27	2669	626	66	2002
Armstrong, Thomas L., <i>et al.</i> (See Booth, Charles S., assignor.)						
Armstrong, Wesley S. (See McCloskey, Charles C., Jr., assignor.)						
Armstrong, William A., assignor of one-half to O. Dickey, Elkton, Ohio. Plow	530,061	Nov. 27	2745	658	69	1199
Armstrong, William T., and G. H. Wadsworth, Cleveland, Ohio. Metallic tie and rail fastener	518,439	Apr. 17	1745	433	67	352
Arndt, Max, Aix-la-Chapelle, Germany. Gas-balance for ascertaining specific gravity of gases	527,397	Oct. 16	1187	292	69	249
Arndt, Theophilus B., Florin, Pa. Washing-machine	520,350	May 22	2475	600	67	1040
Arnemann, Wilhelm, Hamburg, Germany. Keg-rolling machine	518,389	Apr. 17	1661	410	67	336
Arnet, Herman, Chicago, Ill. Latch	515,985	Mar. 6	409	94	66	1528
Arnold, Alvin, Burket, Ind. Mole-trap	528,136	Oct. 30	2471	598	69	515
Arnold, Bion J., Chicago, Ill. Electric-power appliance	517,831	Apr. 10	684	{ 170 171 }	67	147
Arnold, Clarence W., Philadelphia, Pa. Card-setting machine	528,354	Oct. 30	2832	{ 685 686 687 688 689 }	69	581
Arnold, Clifton S. (See Arnold, Henry A. and C. S.)						
Arnold, Craig R., Sharon Hill, Pa. Coating metals with oxids	514,896	Feb. 20	1537	-----	66	1176
Arnold, Craig R., Sharon Hill, Pa. System of car lighting or heating	520,403	May 29	2559	619	67	1073
Arnold, Daniel J. C., New London, Ohio. Brick-mold	524,927	Aug. 21	1645	403	68	990
Arnold, David A., Pawtucket, R. I. Saw-set	523,505	July 24	2320	584	68	479
Arnold, Edward M., Pawtucket, R. I. Means for raising sunken vessels	526,959	Oct. 2	474	117	69	89
Arnold, Henry A. and C. S., Geneva, Wis. Horse driver and governor	522,956	July 17	1349	335	68	287
Arnold, Henry H., Rockland, assignor to Eppler Welt Machine Company, Boston, Mass. Channeling-machine	520,132	May 22	2102	510	67	970
Arnold, Lyndon, St. Johnsbury, Vt. Fastener for mail-bags	514,404	Feb. 6	714	181	66	938
Arnold, M. D., <i>et al.</i> (See Scates, George R., assignor.)						
Arnold, Oliver, assignor of one-half to M. G. Clark, Leicester, Mass. Rotary motor	531,246	Dec. 18	2059	492	69	1819
Arnold, Rhipip. (See Rotzien and Arnold.)						
Arnold, Samuel D., J. B. Venker, and W. L. Barnard, St. Louis, Mo. Rubber hand-stamp	528,583	Nov. 6	100	25	69	664
Arnold, Seth, <i>et al.</i> (See Scates, George R., assignor.)						
Arnold, Wilhelm, Gablenburg, near Stuttgart, Germany. Washing apparatus	518,087	Apr. 10	1117	282	67	220
Arnoldi, Ernest C., <i>et al.</i> (See Potter, George D., assignor.)						
Arnouldts, Charles, assignor of one-half to J. W. McAlle, Seattle, Wash. Composition for preserving piles from teredo, &c.	526,552	Sept. 25	2142	-----	68	1582
Aron, Lessar M. (See May and Aron.) (Reissue.)						
Aronson, Saul, Brooklyn, assignor to Star Watch Company, New York, N. Y. Watch	516,718	Mar. 20	1638	389	66	1790
Arper, George W., Oakland, Cal. Oil-can faucet	521,491	June 19	1335	310	67	1471
Arter, John L., Sunbury, Pa. Safety device for car-couplings	527,136	Oct. 9	751	184	69	154
Arthur, Evan R., Portage, Wis. Adjustable hose-coupling band	519,312	May 8	680	166	67	683
Arthur, Frank D., Scarborough, N. Y. Toy-holder	521,253	June 12	888	210	67	1371
Arthur, Henry. (See Stuckey and Arthur.)						
Arthur, Joseph A., Charleston, W. Va. Mortising-chisel	522,548	July 3	630	161	68	123
Arthur, Joseph A., Ronceverte, assignor to Arthur Machine Company, Charleston, W. Va. Chisel	522,282	July 3	190	51	68	39
Arthur Machine Company. (See Arthur, Joseph A., assignor.)						
Asam, Joseph E., and F. Mühlenbech, Saginaw, Mich. Fruit-basket	527,761	Oct. 23	1787	430	69	377
Ash Automatic Electric Switch Company. (See Ash, Walter V. and J. H., assignors.)						
Ash, Joseph H. (See Ash, Walter V. and J. H.)						
Ash, Walter V. and J. H., Newark, N. J., assignors of one-half to Ash Automatic Electric Switch Company, of New Jersey. Railway electric switch	528,898	Nov. 6	679	164	69	771
Ashberry, Philip, and W. Barnes, Sheffield, England. Driving mechanism	519,313	May 8	682	166	67	683
Ashberry, Philip, and W. Barnes, Sheffield, England. Construction of mechanical clippers for wool or hair	526,359	Sept. 18	1804	427	68	1508
Ashberry, Philip, and W. Barnes, Sheffield, England. Mechanical clipper for animals	530,572	Dec. 11	895	220	69	1395
Ashbrook, Robert E., and M. H. Ingram, Paducah, Ky. Copy-book cabinet	525,935	Sept. 11	1070	243	68	1357
Ashburn, Jesse A., assignor to Pilot Mountain Fly Excluder Company, Pilot Mountain, N. C. Ventilator	515,068	Feb. 20	1796	454	66	1222
Ashby, William, Lafayette, Ind. Attachment for hand-rakes	531,295	Dec. 25	2149	514	69	1651
Ashcraft, George W., Cave Spring, Ala. Planter and fertilizer-distributor	528,520	Nov. 6	1	1	69	647
Ashcroft, James V., Dunkirk, Ind. Pliers	512,086	Jan. 2	597	143	66	114
Ashcroft Manufacturing Company. (See Houghtaling, William, assignor.)						
Ashford, Thomas B., Kinston, N. C. Refrigerator	513,860	Jan. 30	2547	874	66	804
Ashley, Claude L., Atlanta, Ga. Fuse-box	531,355	Dec. 25	2255	538	69	1672
Ashley, Edward D. (See Ashley, George and E. D.)						
Ashley, Edward E., New York, N. Y. Heating apparatus	520,911	June 5	290	70, 71	67	1250
Ashley, Frank M., <i>et al.</i> (See Enholm, Oscar A., assignor.)						
Ashley, Frank M., Hawthorne, N. J. Closed-conduit electric railway	514,112	Feb. 6	212	49	66	894
Ashley, Frank M., Hawthorne, N. J. Electric railway	514,113	Feb. 6	215	50	66	895
Ashley, Frank M., Hawthorne, N. J. Electric-railway conduit	514,114	Feb. 6	216	50	66	895
Ashley, Frank M., Hawthorne, N. J. Low-water boiler-alarm	515,037	Feb. 20	1749	442	66	1213
Ashley, Frank M., Hawthorne, N. J. Steam-trap	517,422	Apr. 3	2	1	67	3
Ashley, Frank M., Hawthorne, N. J. Water-gage	518,171	Apr. 10	1255	316	67	244
Ashley, Frank M., Hawthorne, N. J. Tubular apparatus	526,553	Sept. 25	2143	513	68	1582
Ashley, Frank M., Hawthorne, N. J. Bicycle-tire	531,608	Dec. 25	2698	647	69	1758
Ashley, Frank M., Hawthorne, assignor of one-fourth to W. McKee, Paterson, N. J. Projectile	517,560	Apr. 3	238	55	67	47
Ashley, Frank R., Denver, Colo. Elevating attachment for awnings	512,087	Jan. 2	598	144	66	114
Ashley, George and E. D., New Britain, Conn. Meat-cutter	537,921	Oct. 23	2069	496	69	498
Ashley, Herbert H., Springfield, Mass. Trolley-wire and support therefor	530,674	Dec. 11	1070	260	69	1424
Ashley, Howard M., Ferrybridge, England, assignor to American Bottle Company, Woodbury, N. J. Apparatus for manufacturing glass bottles	517,016	Mar. 27	2141	{ 507 508 }	66	1901

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Ashley, John J., <i>et al.</i> (See Enholm, Oscar A., assignor.)						
Ashmore, Stephen N., St. Louis, Mo. Station-indicator	525,755	Sept. 11	751	{ 174 175 }	68	1301
Ashton, Henry B., Medford, Mass. Brush	517,994	Apr. 10	960	241	67	195
Ashton, John, Lawrence, Mass. Lock-hinge	530,377	Dec. 4	533	133	69	1312
Ashton, John, and J. Moorhouse, Shaw, England. Means for driving slubbing and roving machines	514,693	Feb. 13	1197	298	66	1097
Ashton, William, <i>et al.</i> (See Carroll, Charles J., assignor.)						
Ashwell, Richard P., Newark, N. J., and J. A. Vandegrift, New York, N. Y. Vacuum-pump	512,788	Jan. 16	1784	424	66	365
Ashwell, Richard P., Newark, N. J., and J. A. Vandegrift, New York, N. Y. Vacuum apparatus	512,789	Jan. 16	1786	424	66	365
Ashwell, Richard P., Newark, N. J., and G. W. Tuttle, New York, N. Y. Incandescent electric lamp	517,017	Mar. 27	2145	508	66	1901
Ashwell, William H., <i>et al.</i> (See Dubelman, John, assignor.)						
Ashworth, Edwin, and A. H. Oldham, Rochdale, assignors to R. Hall & Sons, Bury, England. Salvage-forming apparatus for looms	514,433	Feb. 13	754	193	66	1013
Ashworth, Elijah, Manchester, England. Machine for hardening and tempering steel wire and ribbons	514,986	Feb. 20	1665	417	66	1200
Ashworth, Richard J., assignor to Waterbury Manufacturing Company, Waterbury, Conn. Globe-holder	524,537	Aug. 14	983	241	68	858
Ashworth, William J. (See Maybrick and Ashworth.)						
Aspinall, Herbert, Liverpool, England. Engine-governor	516,041	Mar. 6	506	{ 117 118 }	66	1546
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. } Potato-cutter. (Reissue)	11,417	Apr. 24	2601	{ 643 644 }	67	519
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. } Fertilizer attachment for planting-machines	529,099	Nov. 13	1040	251	69	855
Aspinwall Manufacturing Company. (See Aspinwall, Lewis A., assignor.)						
Aspinwall Manufacturing Company. (See Aspinwall, Lewis A., assignor.) (Reissue.)						
Asstetron, William, assignor of two-thirds to D. Stewart and C. J. Carroll, Baltimore, Md. Autographic register	526,003	Sept. 11	1186	271	68	1379
Asstetron, William, assignor of two-thirds to D. Stewart and C. J. Carroll, Baltimore, Md. } Manifolding sales-register	530,876	Dec. 11	1391	{ 331 332 }	69	1484
Assorati, Antenor, New York, N. Y. Bottle cover or cap	515,069	Feb. 20	1797	454	66	1923
Assorati, Antenor, assignor to R. R. Govin, New York, N. Y. Wrench	525,575	Sept. 4	433	103	68	1331
Assorati, Antenor, assignor to R. R. Govin, New York, N. Y. Spike	525,576	Sept. 4	434	103	68	1232
Astley, Robert, London, England. Construction of fireproof floors	527,647	Oct. 16	1597	386	69	325
Astor, John J., New York, N. Y. Pneumatic road-cleaning machine	514,805	Feb. 13	1380	347	66	1132
Aten, Merritt L., Deerfield, Mich. Potato-harvester	522,873	July 10	1186	296	68	240
Athern, John. (See Donaldson and Athern.)						
Atherton, Faxon D., San Francisco, Cal. Ticket and time-table holder	513,749	Jan. 30	3375	832	66	768
Atherton, Fisher C., Buffalo, N. Y. Clip	520,553	May 29	2809	678	67	1118
Atherton, James B. (See Whitehead, William, assignor.)						
Atherton Machine Company <i>et al.</i> (See Duffy, Joseph, assignor.)						
Atherton, Robert, Paterson, N. J. Supporting device for spinning-spindles	516,042	Mar. 6	509	118	66	1547
Atherton, Robert, Paterson, N. J. Tension device for spinning-frames	520,473	May 29	2675	646	67	1093
Atkins, C. H. M., executor. (See Warner, Warren.)						
Atkins, Elias C. (See Roberts, Nate H., assignor.)						
Atkins, Hiram S., Stowe, Vt. Grinding-mill	520,027	May 22	1901	464	67	935
Atkinson, Alfred. (See Fowler, England, and Nielsen, assignors.)						
Atkinson, Frank. (See Jackson, Francis, assignor.)						
Atlantic Refining Company. (See Perkins, George H., assignor.)						
Aton, James B., Morganfield, Ky. Lever attachment for raising or lowering buggy-tops	526,430	Sept. 25	1960	467	68	1549
Attaway, Elisha, assignor of one-half to W. Attaway, Grand Cane, La. Bag-holder	523,097	July 17	1574	395	68	329
Attaway, Henry F., Hillsborough, Tex. Advertising device	516,884	Mar. 20	1907	450	66	1841
Attaway, Willie. (See Attaway, Elisha, assignor.)						
Atterbury, Basil J., Brixton, England. Ore-pulverizer, gold-saver, and mineral-concentrator	511,871	Jan. 2	201	51	66	42
Atwater, Richard M. (See Dralle, Robert, assignor.)						
Atwood, Benjamin S., Whitman, Mass. Box-nailing machine	515,393	Feb. 27	2351	{ 583 584 }	66	1339
Atwood Crawford Company. (See Morrison, John H., assignor.)						
Atwood Electric Company. (See Atwood and Perkins, assignors.)						
Atwood, George H. (See Jones, Samuel O., assignor.)						
Atwood, La Motte C. (See Gill and Atwood.)						
Atwood, La Motte C., and N. W. Perkins, Jr., assignors to Atwood Electric Company, St. Louis, Mo. Engine	514,054	Feb. 6	125	29	66	877
Atwood, La Motte C., and W. T. Treadway, assignors of one-third to M. Woodson, St. Louis, Mo. Street-sprinkler	530,062	Nov. 27	2746	659	69	1199
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Lamp-collar	517,676	Apr. 3	444	107	67	85
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Expandible ring for lamp-supports	521,075	June 5	574	135	67	1301
Atzert, Louis, Cassel, Germany. Adjustable desk	519,655	May 8	1295	309	67	793
Au, Anton, Crandon, S. D. Scrubbing-machine	524,751	Aug. 21	1344	328	68	937
Aubry, Alvis E., and G. H. Dawson, Stockton, Cal. Apparatus for ventilating fire-rooms	513,947	Mar. 6	335	80	66	1515
Auchly, Albert, Montgomery City, Mo. Hog-sty and feeding-trough	516,906	Mar. 20	1946	453	66	1848
Audet, Frank X., Jr., Lynn, Mass. Device for producing overtones in stringed instruments	525,688	Sept. 11	633	149	68	1281
Aufferheide, Heinrich. (See Aufferheide, Johann H., assignor.)						
Aufferheide, Johann H., Kaiserslautern, Germany, assignor to H. Aufferheide, Brooklyn, N. Y. Shears	518,129	Apr. 10	1185	297	67	232
Aufrecht, Samuel, Berlin, Germany. Folding furniture	519,937	May 15	1745	428	67	891
Auerbach-Woolverton Electric Company. (See Mayer, Max, assignor.)						
Auerbach-Woolverton Electric Company. (See Woolverton, John E., assignor.)						
Aufuldish, John B., Dayton, Ohio. Cash register and indicator	529,773	Nov. 27	2218	{ 528 529 }	69	1099
Aufuldish, John B., Dayton, assignor to Columbia Cash Register Company, Miamisburg, Ohio. Cash register and indicator	516,856	Mar. 20	1860	{ 440 441 }	66	1832
August, Robert J. (See Hay, Frank D., assignor.)						
Aulmann, George W., and W. R. Harris, Des Moines, Iowa. Steam-separator	521,492	June 19	1336	310	67	1471
Aulmann, Lorenz, Des Moines, Iowa. Duplex revolving screen for cleaning and grading coal	513,973	Feb. 6	3	1	66	856

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Ault & Wiborg Company. (See Pope, Wallace M., assignor.)						
Aumont, Henri F. L., London, England. Inlaying metal goods with tortoise-shell or celluloid.	530,817	Dec. 11	1297	313	69	1467
Austen, Peter T., Brooklyn, assignor to W. J. Matheson & Co., Limited, New York, N. Y. Coloring-matter from logwood and making same.	529,691	Nov. 27	2086	.....	69	1076
Anstin, Alexander H., Chicago, Ill. Street-box for water, gas, &c.	520,176	May 22	2179	531	67	985
Anstin, Edgar A., Hannibal, Mo. Roofing-ladder.	524,661	Aug. 14	1187	291	68	896
Anstin, Edward S., et al. (See McCarrier, John T., assignor.)						
Anstin, Emmet R., Norwalk, Conn. Stovepipe water-heater.	515,640	Feb. 27	2737	682	66	1414
Anstin, Eugene, Detroit, Mich. Oil and water separator.	521,199	June 12	794	187	67	1354
Anstin, Frank A., Syracuse, N. Y. Stop for door-hangers.	530,818	Dec. 11	1298	314	69	1467
Austin, Frank R., Lynn, Mass. Sewing-machine for stitching and barring buttonholes.	522,928	July 10	1288	{ 319 320 }	68	259
Anstin, Frederick C. (See Bunnell, Morton G., assignor.)						
Anstin, Frederick C. (See Cameron, Arthur, assignor.)						
Anstin, Harmon, Jr., et al. (See Burnap, Charles F., assignor.)						
Anstin, James E., Standish, Mich. Slicing-machine.	528,247	Oct. 30	2663	641	69	551
Anstin, John F. (See Douglas and Anstin.)						
Anstin, John W., Pilot Point, Tex. Wire-stretcher.	527,311	Oct. 9	1041	253	69	207
Anstin, Lorey T., assignor of one-half to B. E. Cronkhite, Rossville, Ill. Thrashing-machine attachment.	528,915	Nov. 13	736	173	69	801
Anstin, Stephen J., Terre Haute, Ind. Bearing for platform-scales.	516,958	Mar. 20	2033	481	66	1865
Anstin, Stephen J., Terre Haute, Ind. Scale-beam.	521,074	June 5	575	135	67	1301
Anstin, Thomas, Brooklyn, N. Y. Stove or furnace.	520,978	June 5	412	98	67	1272
Anstin, Truman E., Binghamton, N. Y. Combined spark arrester and ejector.	512,145	Jan. 2	687	165	66	132
Austin, William F., Albany, assignor of one-half to C. W. Campbell, Lansingburg, N. Y. Fire-tower.	524,476	Aug. 14	882	{ 218 219 }	68	840
Austin, William H., assignor to himself, W. H. Cary, W. Thompson, and A. A. Delano, Brockton, Mass. Machine for manufacturing lasts for boots or shoes.	526,987	Oct. 2	519	127	69	97
Anstin, William L., San Francisco, Cal. Smelting ores.	513,974	Feb. 6	4	.....	66	855
Anstin, William L., Denver, Colo. Smelting.	527,312	Oct. 9	1042	.....	69	207
Austrian, Joseph E., Williamsport, Pa. File.	512,267	Jan. 9	887	214	66	180
Autenrieth, William, Cincinnati, Ohio. Histological case.	512,496	Jan. 9	1293	310	66	255
Auto-Pneumatic Railway-Signal Company. (See Dodgson, Frank L., assignor.)						
Automatic Car-Fender Company. (See Smith, Eldridge J., assignor.)						
Automatic Faucet Company. (See Rubin, Max, assignor.)						
Automatic Fire Door Company. (See Lamb and McClure, assignors.)						
Automatic Folding Bed Company. (See Bostad, Christian, assignor.)						
Automatic Folding Bed Company. (See Krabot and Bostad, assignors.)						
Automatic Hatch Door Company. (See Wemple, William R., assignor.)						
Automatic Injector Company. (See Hogue, Parker P., assignor.)						
Automatic Lasting Machine and Manufacturing Company. (See Lombard, Nathaniel, assignor.)						
Automatic Lasting Machine Company. (See Patten, Enos, assignor.)						
Automatic Novelty Manufacturing Company. (See Bangerter, Fred, assignor.)						
Automatic Photograph Exhibition Company of New York. (See Keller, Albert K., assignor.)						
Automatic Switch Company of Baltimore City. (See Whittingham, George H., assignor.)						
Automatic Telephone and Electric Company of Canada. (See Simoneau, Louis E., assignor.)						
Automatic Track Sanding Company. (See Dodd, Matthew M., assignor.)						
Automatic Track Sanding Company. (See Sherburne, Charles W., assignor.) (Reissue.)						
Automatic Vending Company. (See Cochran, Frederic B., assignor.)						
Automatic Water Tank Company. (See Sattelkau and Winkelmann, assignors.)						
Autrey, Benjamin P., Pilot Point, Tex. Metal-cutting shears.	529,639	Nov. 20	2001	478	69	1950
Avenarius, Richard, Gausalgesheim, Germany. Molding-box for artificial stone.	525,325	Sept. 4	2	1	68	1151
Averitt, Daniel M., Bedford, Ky. Fertilizer-distributor.	524,455	Aug. 14	855	210	68	835
Avery, Edward N., Tecumseh, Mich. Combined hay and stock rack.	526,173	Sept. 18	1477	345	68	1444
Avery, Granville O. (See Wright, William, assignor.)						
Avery, Henry W. (See Wadsworth and Avery.)						
Avery, Morris H., Woonsocket, R. I. Clutch.	516,422	Mar. 13	1130	269	66	1679
Avery Stamping Company. (See Wadsworth and Avery, assignors.)						
Avery, Thomas E., Danbury, Conn. Machine for curling hat-brims. (Reissue.)	11,405	Mar. 20	2125	{ 503 504 505 }	66	1881
Avery, William C., et al. (See Fryer, Robert M., assignor.)						
Avis, Walter H., assignor of one-half to R. C. Fisher, Toronto, Canada. Wire-covering machine.	512,146	Jan. 2	689	{ 166 167 }	66	132
Axdorfer, Gottfried, assignor of one-half to C. H. F. Sass, Hamburg, Germany. Gas-furnace.	520,403	May 29	2561	619	67	1073
Axline, John D. and J. L. Baillie, Shawnee, Ohio. Baggy-top attachment.	531,493	Dec. 25	2506	597	69	1720
Axtel, Spencer T., Oswego, N. Y. Towel-rack.	519,490	May 8	996	241	67	740
Ayers, John T., Elmira, N. Y. Portable screw-elevator.	514,299	Feb. 6	563	141	66	959
Ayers, William E., Collett, Ind. Clover-feeder.	518,880	Apr. 17	1812	448	67	364
Ayling, Arthur P., Milwaukee, Wis. Composition for manufacturing glass.	522,001	June 26	9245	.....	67	1656
Ayling, Arthur W., Toledo, Ohio. Connection for broken water-closets.	526,285	Sept. 18	1666	393	68	1480
Aylsworth, George M., Collingwood, Canada. Buckle.	524,298	Aug. 14	563	143	68	783
Aylworth, Daniel W., and N. B. Leslie, Cleveland, Ohio. Clamp.	516,291	Mar. 13	906	213	66	1638
Ayre, Henry D., Kerfoot, Va. Device for marking off corn-rows.	512,573	Jan. 9	1400	338	66	276
Ayres, Augusta N., Beverly, Mass. Utensil for cooking food over lamp-chimneys.	517,561	Apr. 3	238	55	67	47
Ayres, Edgar, Sydney, New South Wales. Synchronizing mechanism for electric clocks.	525,779	Sept. 11	792	183	68	1308
Ayres, Saxton T., Philadelphia, Pa. Machine for mixing, weighing, and packing flour, &c.	518,088	Apr. 10	1118	{ 282 283 }	67	220
Ayres, Thomas, Philadelphia, Pa. Clew-ring.	527,260	Oct. 9	954	231	69	192
Ayrton, William E., and T. Mather, London, England. Induction mechanism for electrostatic instruments.	513,975	Feb. 6	6	1	66	856
Ayrton, William E., and T. Mather, London, England. Safety device for electrostatic measuring-instruments.	516,341	Mar. 13	984	234	66	1653
B. F. Avery & Sons. (See Holsclaw, Wilford H., assignor.)						
Baade, John, Waco, Tex. Automatic railway-gate.	524,662	Aug. 14	1188	292	68	897
Babbitt, Arthur B. (See Barber and Babbitt.)						
Babbitt, Charles W., Jackson, Mich. Safety attachment for telegraph-signals.	514,745	Feb. 13	1291	321	66	1114
Babbitt, George R., Providence, R. I. Barrel-filler.	517,136	Mar. 27	2354	555	66	1941
Babbitt, Ira T., Abingdon, Ill. Combined ice-cream freezer and churn.	522,313	Oct. 9	1047	253	69	208
Babbitt, Seth W., Meriden, Conn. Plant-holder.	525,644	Sept. 4	534	130	68	1250

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Babbitt, Seth W., Meriden, Conn., assignor of one-half to H. J. Ives, Boston, Mass. Pack-age-carrier.....	525,577	Sept. 4	435	104	68	1232
Babcock, Charles, assignor of one-fourth to B. Park, Salt Lake City, Utah Ter. Ear-ring.....	527,398	Oct. 16	1189	292	69	249
Babcock, George H., deceased, Plainfield, N. J.; F. B. and J. B. Clarke, J. A. Hubbard, and W. M. Stillman, executors. Tile roofing.....	517,832	Apr. 10	687	171	67	148
Babcock, Sylvester P., Adrian, Mich. Clutch.....	519,899	May 15	1686	411	67	881
Babcock, William A., assignor to Bishop & Babcock Company, Cleveland, Ohio. Com-pound hydraulic air-compressor.....	523,064	July 17	1522	321	68	319
Bach, Frederick W., New York, N. Y. Horseshoe.....	518,772	Apr. 24	2320	576	67	468
Bache & Co., Jules S. (See Moses, Alfred H., Jr., assignor.)						
Bache, Leigh S., Bound Brook, N. J. Split pulley.....	513,359	Jan. 23	2703	657	66	610
Bache, Leigh S., Bound Brook, N. J. Split-pulley friction-clutch.....	515,271	Feb. 20	2130	529	66	1285
Bache, William H., Bound Brook, N. J. Trolley.....	527,546	Oct. 16	1431	348 349	69	294
Bachelder, Cyrus P., Pawtucket, R. I. Automatic switch-operating mechanism.....	522,096	June 26	2385	574	67	1683
Bachelut, Jacques. (See Schmid and Bachelut.)						
Bachman, Joseph A., Austin, Tex. Cotton-press.....	512,790	Jan. 16	1788	425	66	365
Bachman, Otto B., Minneapolis, Minn. Thermo-electric volatilizing obtunder.....	524,156	Aug. 7	329	77	68	721
Bachtell, Lewis H. (See Detrick and Bachtell.)						
Back, James S., assignor of one-half to G. L. Orme, Ottawa, Canada. Stringed musical hand-instrument.....	514,877	Feb. 13	1500	376	66	1154
Backman, Per G., Paris, France. Lift, hoist, &c.....	515,641	Feb. 27	2739	682	66	1414
Backstrom, Jonas, and F. W. Johnson, Stromsburg, Nebr. Electric belt.....	527,922	Oct. 23	2072	496	69	428
Backstrom, Matt, Austin, Pa. Shipping-crate cover, &c.....	526,004	Sept. 11	1187	271	68	1380
Backus, Charles L., et al. (See Ryan, Michael B., assignor.)						
Backus, James B., New York, N. Y. Figure-punch for checks or other papers.....	521,358	June 12	1087	255	67	1409
Backus, Lawrence T., Atchison, Kans. Car-coupling.....	523,564	July 24	2407	603	68	496
Backus, Lawrence T., Atchison, Kans. Car-coupling.....	531,145	Dec. 18	1871	444	69	1586
Backus Manufacturing Company. (See Denison, Julian F., assignor.)						
Backus Water Motor Company. (See Shepperd, Sylvanus D., assignor.)						
Bacon, Addison M., Pittsburg, Pa. Glass-melting furnace.....	512,791	Jan. 16	1790	425	66	366
Bacon, Addison M., Pittsburg, Pa. Glass-melting furnace.....	512,792	Jan. 16	1792	426	66	366
Bacon, Allan H., Webster Groves, Mo. Boat-propelling mechanism.....	524,629	Aug. 14	1138	280	68	888
Bacon, Charles H., deceased, Boston, Mass.; S. A. Bacon, administratrix, assignors to W. H. Allen and W. H. Allen, trustee, Melrose, Mass. Proportional water-meter.....	530,074	Nov. 27	2769	664	69	1203
Bacon, George W., Rnsbuhl, Ill. Roller-bearing truck.....	523,098	July 17	1576	396	68	330
Bacon, John E., Clinton, Conn. Fishing-jig.....	524,928	Aug. 21	1647	403	68	990
Bacon, Murray, Philadelphia, Pa. Dyeing-machine.....	528,584	Nov. 6	101	25, 26	69	664
Bacon, Sarah A., administratrix. (See Bacon, Charles H.)						
Bacon, Victor V., Dorr, Mich. Bottle-holder.....	517,833	Apr. 10	688	172	67	148
Badger, Franklin L., Concord, assignor of one-half to C. W. McDaniel, Laconia, N. H. Adjustable chaplet-holder for supporting and centering cores.....	515,311	Feb. 20	2201	546	66	1299
Badger Pearl Button Company. (See Pope, Edward J., assignor.)						
Badger, Wildsmith, London, England. Ball-bearing.....	527,041	Oct. 9	609	148	69	129
Badische Anilin and Soda Fabrik. (See Bally, Oscar, assignor.)						
Badische Anilin and Soda Fabrik. (See Bernthsen, Heinrich A., assignor.)						
Badische Anilin and Soda Fabrik. (See Bernthsen and Julius, assignors.)						
Badische Anilin and Soda Fabrik. (See Bohn, René, assignor.)						
Badische Anilin and Soda Fabrik. (See Bülow, Carl, assignor.)						
Badische Anilin and Soda Fabrik. (See Ceresole, Maurice, assignor.)						
Badische Anilin and Soda Fabrik. (See Julius, Paul, assignor.)						
Badische Anilin and Soda Fabrik. (See Knietzsch, Rudolph, assignor.)						
Badische Anilin and Soda Fabrik. (See Müller, Carl L., assignor.)						
Badische Anilin and Soda Fabrik. (See Schleicher, Erhart, assignor.)						
Badische Anilin and Soda Fabrik. (See Schraube, Conrad, assignor.)						
Badische Anilin and Soda Fabrik. (See Schraube and Romig, assignors.)						
Badt, Francis B., Chicago, Ill. Electric-railway system.....	525,480	Sept. 4	273	67	68	1202
Badt, Francis B., Chicago, Ill. Switch.....	529,578	Nov. 20	1910	455	69	1033
Baebli, Anthony, et al. (See Keane, William M., assignor.)						
Baehr, George, Jersey City, N. J., assignor to S. O'Connor, Brooklyn, N. Y. Electric switch.....	525,936	Sept. 11	1071	243	68	1358
Baenziger, Emil F., assignor to L. Gerste, New Orleans, La. Heel-clip for bicycles.....	516,996	Mar. 20	2095	496	66	1875
Baer, Martin H. (See Wyssinger and Baer.)						
Baer, Martin H., Hagerstown, Md. Machine for making metallic fence-posts.....	520,289	May 22	2370	575	67	1020
Baer, Martin H., Hagerstown, Md. Metallic fence-post.....	522,818	July 10	1118	277	68	226
Baumle, John, assignor of one-fourth to M. Poetzel, Milwaukee, Wis. Bung.....	523,833	Sept. 11	902	201	68	1327
Bagby, George K., New Berne, N. C. Dental articulator.....	522,188	July 3	4	1	68	3
Bagge, Gustaf, Paris, France. Paving-block.....	527,923	Oct. 23	2073		69	429
Baggs, Samuel A., assignor of one-half to J. K. Woodward, Riverside, Cal. Flume-riffle.....	519,981	May 15	1819	446	67	905
Baggstrom, Peter, Brooklyn, N. Y. Tubular-key and pneumatic-valve action for organs.....	525,573	Sept. 4	436	104	68	1232
Bagley, Charles J., and L. Roberts, Stockton-on-Tees, England. Tongs for handling metal.....	527,648	Oct. 16	1598	386	69	325
Bahme, Samuel V., Ellensburg, Wash. Car-brake.....	513,228	Jan. 23	2483	600	66	567
Bahret, Christian, assignor to Western Gas Construction Company, Fort Wayne, Ind. Center-valve.....	518,172	Apr. 10	1256	316	67	245
Bailey, Alden L., St. Johnsbury, Vt. Hose-coupling.....	526,174	Sept. 18	1479	346	68	1444
Bailey, Charles A., assignor to J. & E. Stevens Company, Cromwell, Conn. Toy cannon.....	525,306	Aug. 28	2298	558	68	1127
Bailey, Charles A., assignor to J. & E. Stevens Company, Cromwell, Conn. Toy cannon.....	525,307	Aug. 28	2299	559	68	1127
Bailey, Charles E., and G. F. Bowen, Springfield, Mass. Method of and dies for the manufacture of hand-forgings for military rifles.....	526,286	Sept. 18	1666	394	68	1480
Bailey, Charles F., et al. (See Shydecker, Eugene, assignor.)						
Bailey, Charles J., Newton, Mass. Manicure instrument.....	523,317	Oct. 30	2781	671	69	572
Bailey, Charles S. (See Wright and Bailey.)						
Bailey, David M., Carlisle, Pa. Automatic railway flag-signal.....	517,111	Mar. 27	2316	545	66	1934
Bailey, Edward, Folkstone, England. Vehicle-pole tip.....	524,570	Aug. 14	1039	256	68	863
Bailey, Edward L. (See Brown, Robert P., assignor.)						
Bailey, Eli, assignor of two-thirds to S. Bailey, St. Louis, Mo. Shears.....	524,673	Aug. 14	1209	295	68	900
Bailey, Ella E., Baltimore, Md. Flower-holder.....	527,231	Oct. 9	906	219	69	184
Bailey, Ellene A., New York, N. Y. Rain boot or leggin for ladies or children.....	529,352	Nov. 20	1481	356	69	957
Bailey Farrell Manufacturing Company. (See Grace, Thomas, assignor.)						
Bailey, Frank J., assignor to L. K. Fuller, Brattleborough, Vt. Clothes-drier.....	522,576	July 10	690	175 176	68	151
Bailey, Frank J., assignor to L. K. Fuller, Brattleborough, Vt. Clothes-drier.....	522,577	July 10	694	176	68	152
Bailey, Frederic W., New Haven, Conn. Ancestral-record book.....	527,261	Oct. 9	955	232	69	192
Bailey, George W., Brooklyn, N. Y. Cash register and indicator.....	515,418	Feb. 27	2394	593 594	66	1346

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Bailey, Gilbert L., Portland, Me. Curtain stick and guide	528,709	Nov. 6	327	80	69	706
Bailey, Henry C., and H. Barker, Chicago, Ill. Coin-controlled dice-machine	515,104	Feb. 20	1843	464	66	1231
Bailey, Henry E., assignor to Cox Brass Manufacturing Company, Limited, Albany, N. Y. Air-pressure beer-forcing apparatus	531,494	Dec. 25	2507	597	69	1720
Bailey, Henry J. (See Mathews, Henry R., assignor.)						
Bailey, Herbert L., assignor to Bailey Manufacturing Company, Chicago, Ill. Changeable gearing for bicycles	517,995	Apr. 10	970	242	67	195
Bailey, Herbert L., assignor to Bailey Manufacturing Company, Chicago, Ill. Automatic vehicle-brake	517,996	Apr. 10	972	242	67	196
Bailey, Hezekiah, and W. L. Gilson, Sheridan, Oreg. Grain-separator	525,067	Aug. 28	1908	467	68	1056
Bailey, James B. (See Brinton, George, assignor.)						
Bailey, John B., Baltimore, Md. Fender for street-railway cars	519,803	May 15	1534	374	67	852
Bailey, John C., et al. (See Guy, Joseph P., assignor.)						
Bailey, John W. (See Morris and Bailey.)						
Bailey, John W., Denver, Colo. Ore pulverizing and amalgamating mill	530,612	Dec. 11	960	235	69	1406
Bailey, John W., Denver, Colo. Amalgamator and separator	531,296	Dec. 25	2150	515	69	1651
Bailey, Leonard, Wethersfield, Conn. Copying-pad	516,463	Mar. 13	1203	289	66	1693
Bailey, Mahlon G., assignor of one-half to C. S. Lawrence, San José, Cal. Truck	516,857	Mar. 20	1866	441	66	1833
Bailey Manufacturing Company. (See Bailey, Herbert L., assignor.)						
Bailey, Marcellus, administrator. (See Shill, Richard E., assignor.)						
Bailey, Marcellus, administrator. (See Walker, William T.)						
Bailey, Norval D., Kewanee, Ill. Mold for making castings	517,205	Mar. 27	2476	583	66	1965
Bailey, Richard G., assignor of one-half to J. F. Halloran and A. Holman, San Francisco, Cal. Fountain marking-brush	519,223	May 1	512	124	67	637
Bailey, Samuel R., Amesbury, Mass. Carriage-underworks	511,833	Jan. 2	137	35	66	29
Bailey, Sarah. (See Bailey, Eli, assignor.)						
Bailey, Sterling L., Chicago, Ill. Feed-water purifier	528,318	Oct. 30	2782	671	69	572
Bailey, Sterling L., Chicago, Ill. Feed-water purifier	528,512	Oct. 30	3114	755	69	632
Bailey, Thomas, New York, N. Y. Fireproof building construction	527,649	Oct. 16	1600	386	69	325
Bailey, Victor C., assignor to Advance Thresher Company, Battle Creek, Mich. Band-cutter and feeder	526,287	Sept. 18	1669	394 395	68	1481
Bailey, William E. (See Hill and Bailey.)						
Bailey, William H., Sr., Houston, Tex. Device for the protection of vessels	523,422	July 24	2155	541	68	451
Baillie, Ellis H., et al. (See Sherman, Willis D., assignor.)						
Baillie, James L. (See Axline and Baillie.)						
Baily, Alden L., St. Johnsbury, Vt. Hose-fastening	515,693	Mar. 6	254	60	66	1501
Bain, Robert B., assignor to Tillmann & Bendel, San Francisco, Cal. Grocer's shipping or service box or crate	528,355	Oct. 30	2842	689	69	582
Bainbridge, Charles, Philadelphia, Pa. Carpenter's work-holder and guide	529,235	Nov. 13	1277	306	69	897
Bainbridge, Francis H., Chicago, Ill. Dam	525,634	Sept. 11	904	201	68	1328
Bair, Oliver H. (See Congelton and Boyd, assignors.)						
Baird, Andrew H., Liverpool, England. Collapsible sleeping-berth	516,514	Mar. 13	1294	307 308	66	1709
Baird, Edward P., Plattsburg, N. Y. Clock-case	520,979	June 5	413	99	67	1272
Baird, Edward P., and F. Nash, Plattsburg, N. Y.; said Nash assignor to said Baird. Time-stamp	531,297	Dec. 25	2152	515 516	69	1652
Baird, George F., Austin, Minn. Casket-clamp for hearses	516,172	Mar. 6	705	166	66	1585
Baird, John, Paterson, N. J. Snow-guard	529,774	Nov. 27	2219	529	69	1099
Bairot, John, assignor to R. L. Place, East Port Chester, Conn. Vehicle thill or pole support	525,308	Aug. 28	2300	559	68	1127
Bajus, Frederick W. (See Sprague and Bajus.)						
Baker, Abraham, South Haven, Mich. Bird-trap	518,173	Apr. 10	1259	316 317	67	245
Baker, Albert R., deceased, Indianapolis, Ind.; M. C. Baker, administratrix. Label for file-binders	515,512	Feb. 27	2531	627 255	66	1372
Baker, Artemas, assignor of one-half to A. Phelps, Lancaster, Tex. Station-indicator	521,359	June 12	1088	256	67	1409
Baker, Bernard N. (See Inch, Philip, assignor.)						
Baker, Burton E., Bridgeport, Conn. Rheostat	521,843	June 26	1933	463	67	1598
Baker, Burton E., New Britain, Conn. Rheostat	526,605	Sept. 25	2231	532	68	1599
Baker Chain and Wagon Iron Manufacturing Company. (See Piper, William M., assignor.)						
Baker, Charles F. (See Curtis, George A., assignor.)						
Baker, Charles H., Detroit, Mich. Signal-lamp for electric-railway cars	531,146	Dec. 18	1872	444 445	69	1587
Baker, Charles W., Montclair, N. J. Generation of steam	529,997	Nov. 27	2623	630	69	1176
Baker, David, Sparrow's Point, Md. Drill	529,996	Nov. 27	2620	629	69	1176
Baker, Dilver E., Cowgill, Mo. Cultivator attachment	530,819	Dec. 11	1299	314	69	1467
Baker, Edmund K., Springfield, Mass. Spinning machinery	519,491	May 8	997	241 242	67	740
Baker & Foglesong Manufacturing Company. (See Foglesong, Washington, assignor.)						
Baker, Frank W., Kokomo, Ind. Spirometer	531,247	Dec. 18	2061	492	69	1619
Baker, George C., deceased, Chicago, Ill.; M. R. Baker, administratrix. Submarine torpedo-boat	525,178	Aug. 28	2112	514	68	1090
Baker, George C., deceased, Chicago, Ill.; M. R. Baker, administratrix. Submarine torpedo-boat	525,179	Aug. 28	2113	514	68	1090
Baker, George C., deceased, Chicago, Ill.; M. R. Baker, administratrix. Submarine torpedo-boat	530,466	Dec. 4	670	166 167	69	1338
Baker, George W., Wilmington, Del. Machine for working hides or skins	512,088	Jan. 2	600	144	66	115
Baker, George W., assignor to White Sewing Machine Company, Cleveland, Ohio. Tension device for sewing-machines	521,075	June 5	576	135	67	1301
Baker, Halsey H., Plainfield, N. J. Street-sign	530,497	Dec. 11	748	184	69	1369
Baker, Henry, assignor of one-half to G. E. Guerne, Santa Rosa, Cal. Track-harrow	517,206	Mar. 27	2477	583	66	1965
Baker, James S. (See Hooper, George W., assignor.)						
Baker, John G., Philadelphia, Pa. Grater	524,189	Aug. 7	376	89	68	730
Baker, John L., Baird, Tex. Grate	512,353	Jan. 9	1028	251	66	206
Baker, John S. (See Collett, Austin B., assignor.)						
Baker, John T., et al. (See Hart, Edward, assignor.)						
Baker, Joseph. (See Stevens and Baker.)						
Baker, Justus L. H., Jamestown, Ohio. Farm-truck	525,126	Aug. 28	2009	491	68	1073
Baker, Manville W. (See Butterfield, Tyrannus P., assignor.)						
Baker, Mary R., administratrix. (See Baker, George C.)						
Baker, Meta C., administratrix. (See Baker, Albert R.)						
Baker, Thaddens, Chicago, Ill. Mechanism for converting pedal motion	525,309	Aug. 28	2301	559	68	1127
Baker, Thomas C. (See Whetstone and Baker.)						
Baker, William H. (See Hall and Baker.)						
Baker, William H., Pawtucket, R. I. Electric signaling apparatus for railway-trains	523,847	July 31	2925	729	68	607

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Baker, William R., Watertown, N. Y. Mast-hoop.....	527,167	Oct. 9	801	195	69	163
Baker, William R., Watertown, N. Y. Center-board for boats.....	528,916	Nov. 13	737	173	69	801
Baker, William S. G., Baltimore, Md. Brake for railway-cars.....	530,378	Dec. 4	534	133	69	1312
Baker, William S. G., Baltimore, Md. Brake for railway-cars.....	530,379	Dec. 4	537	134	69	1313
Balbian, Henry, North Vassalborough, Me. Method of and machine for fulling cloth.....	529,579	Nov. 20	1911	455	69	1033
Balch, Frederick A., Neillsville, Wis. Washboard.....	529,353	Nov. 20	1483	357	69	957
Balcom, Uriah H., Downer's Groove, Ill. Sash-fastener.....	524,697	Aug. 21	1252	309	68	921
Baldrige, Herman, Los Angeles, Cal. Transplanter for trees or flowers.....	522,039	June 26	2300	551	67	1666
Baldwin, Andrew, Viroqua, Wis. Rotating stand.....	530,877	Dec. 11	1394	332	69	1434
Baldwin, Charles C., assignor of one-half to F. S. Hupp, Moline, Ill. Oil-burner.....	519,754	May 15	1449	349	67	836
Baldwin, Charles E., <i>et al.</i> (See Ringrose, Eduard W., assignor.)						
Baldwin, Cyrus W., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Elevator.....	519,804	May 15	1536	{ 375 376 }	{ 67	852
Baldwin, Cyrus W., Yonkers, N. Y., assignor to National Company, Chicago, Ill. Control-ling device for elevators.....	529,438	Nov. 20	1662	395	69	989
Baldwin, Daniel M., Los Angeles, assignor of one-half to W. T. Snidow, San Gabriel, Cal. Potato-planter.....	523,954	July 31	3114	775	68	643
Baldwin, Eli. (See Crook, Charles, assignor.)						
Baldwin, Ellory A., Upton, Mass. Drive-chain.....	523,877	July 31	2972	740	68	616
Baldwin, Ephriam. (See Risley, David, assignor.)						
Baldwin, Frederic E., New Brighton, N. Y. Candle-lamp.....	520,200	May 22	2232	540	67	992
Baldwin, Henry L., Chicago, Ill. Telephone-transmitter.....	526,139	Sept. 18	1421	332	68	1435
Baldwin, Louis W., Jersey City, N. J. Stencil-brush.....	513,071	Jan. 23	2246	541	66	519
Baldwin, John A. (See Struck, Charles E., assignor.)						
Baldwin, Judson A., Benton Harbor, Mich., assignor to G. W. Hale, Chicago, Ill. Smoke-preventing furnace.....	518,576	Apr. 17	1969	{ 487 488 }	{ 67	391
Baldwin, Ozra J., Youngsville, and J. L. Kerstetter, Bradford, Pa. Device for suspending stove-lifters, &c.....	518,174	Apr. 10	1261	317	67	245
Baldwin, Rollin A., South Norwalk, Conn., assignor to Fitch Excelsior Switch Company, of New Jersey. Electric railway-switch.....	529,011	Nov. 13	895	211	69	829
Baldwin, William B., <i>et al.</i> (See Perrin, Frederick S., assignor.)						
Baldwin, William D., administrator. (See Preston, Benjamin.)						
Baldwin, William D., administrator. (See Willans, Peter W.)						
Baldwin, William D., <i>et al.</i> (See Rnemmler, Gustav A., assignor.)						
Baldwin, William J., Brooklyn, N. Y. Attachment for radiators.....	518,801	Apr. 24	2368	586	67	475
Balensiefer, Adolf, New York, N. Y. Breakdown gun.....	530,467	Dec. 4	673	167	69	1338
Ball, Alonzo T. (See Morgel, Ball, and Nagel.)						
Ball Bearing Car Wheel Manufacturing Company. (See Wright and Hornsey, assignors.)						
Ball, Charles, Providence, R. I. Clip.....	522,774	July 10	1048	259	68	214
Ball, Charles A., Washington, D. C. Apparatus for treating garbage.....	529,236	Nov. 13	1279	{ 307 308 }	{ 69	897
Ball, Charles A., Washington, D. C. Railway-gate.....	531,087	Dec. 18	1761	420	69	1565
Ball, Charles A., Brooklyn, assignor of one-half to C. H. Green, New Rochelle, and H. Knobel, New York, N. Y. Locomotive-engine.....	520,839	June 5	155	34	67	1225
Ball, Charles A., Brooklyn, assignor to Ball Compound Locomotive Company, New York, N. Y. Compound locomotive-engine.....	521,254	June 12	889	{ 210 211 }	{ 67	1371
Ball, Charles W. W., New York, and J. L. Gordon, Brooklyn, N. Y. Filter.....	522,819	July 10	1119	278	68	227
Ball Compound Locomotive Company. (See Ball, Charles A., assignor.)						
Ball, Frank C. (See Carr, Robert S., assignor.)						
Ball, Henry P., Bridgeport, Conn. Ceiling-cleat.....	518,214	Apr. 17	1350	337	67	279
Ball, Henry P., Bridgeport, Conn. Switch.....	520,474	May 29	2676	646	67	1094
Ball, Henry P., Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Insulating-turnbuckle.....	518,213	Apr. 17	1349	336	67	279
Ball, Henry P., Bridgeport, Conn., assignor to General Electric Company, of New York. Insulating-block.....	523,653	July 31	2557	641	68	541
Ball, Henry P., Bridgeport, Conn., assignor to General Electric Company, Boston, Mass. Insulator for electric overhead construction.....	530,498	Dec. 11	750	184	69	1369
Ball, John A., Grass Valley, Cal. Dredging-machine.....	530,675	Dec. 11	1071	{ 260 261 }	{ 69	1425
Ball, John W. (See Ward and Ball.)						
Ball, Oscar W. (See Sherwood, Charles L., assignor.)						
Ball, Phinehas, Worcester, Mass. Apparatus for purifying water.....	513,473	Jan. 30	2898	714	66	681
Ball, Phinehas, Worcester, Mass. Rotary water-meter.....	521,493	June 19	1337	{ 310 311 }	{ 67	1472
Ballantine, Eden M., Philadelphia, Pa. Tire for bicycles.....	522,141	June 26	2476	593	67	1700
Ballard, George L., Toronto, Canada. Secondary battery.....	517,018	Mar. 27	2146	509	66	1902
Ballard, John, assignor of one-half to T. W. Berry, Boston, Mass. Sanding device for cars.....	516,515	Mar. 13	1295	309	66	1709
Ballard, Luther W. (See Lewis, John E., assignor.)						
Ballard, William O., <i>et al.</i> (See Robineon, William S., assignor.)						
Ballingall, David. (See Mirrlees and Ballingall.)						
Bally, Oscar, Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye.....	524,235	Aug. 7	452		68	744
Baltimore, John, New York, N. Y. Steam-trap.....	516,178	Mar. 13	723	169	66	1603
Balph, Charles A. (See Zortman and Ward, assignors.)						
Balph, Charles A., Pittsburg, and E. P. S. Wright, Avalon, Pa. Fireproof floor and ceiling.....	527,042	Oct. 9	610	148	69	129
Balph, Charles A., and E. P. S. Wright, Pittsburg, Pa. Fireproof beam.....	527,232	Oct. 9	907	219	69	185
Balsler, William. (See Saddler, Robert A., assignor.)						
Balsley, Charles H., assignor of one-fourth to G. W. Bryner, Connellsville, Pa. Incandescent-electric-lamp socket.....	531,288	Dec. 18	2137	512	69	1634
Balsley, Upton H., Philadelphia, Pa. Telephone system.....	518,773	Apr. 24	2321	576	67	468
Balthasar, Curt J., assignor of two-fifths to J. W. Fryer, St. Louis, Mo. Cast-iron conduit for steam or hot-water heaters.....	530,747	May 29	3135	759	67	1178
Balz, Wilhelm, Flonheim, Germany. Filtering apparatus.....	515,894	Mar. 6	255	60	66	1502
Bammann, Johann. (See Ulrich and Bammann.)						
Bammann, Johann. (See Ulrich, Bammann, and Herzberg.)						
Banbury, John, Auckland, New Zealand. Closing cans.....	527,650	Oct. 16	1600	386	69	325
Bancroft, Charles E., <i>et al.</i> (See Wertheimer, Monroe A., assignor.)						
Bancroft, George W., assignor to Bancroft Vestibule Car Company, Chicago, Ill. Rail-way-car.....	529,012	Nov. 13	897	{ 211 212 }	{ 69	829
Bancroft, Harlow P., <i>et al.</i> (See Wertheimer, Monroe A., assignor.)						
Bancroft, John S., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Operating electric motors.....	519,686	May 8	1345	{ 324 325 }	{ 67	803
Bancroft, John S., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Operating electric motors.....	520,748	May 29	3137	{ 759 760 }	{ 67	1178

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Bancroft, John S., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Chuck for drill-grinding machines	520,749	May 29	3141	760	67	1173
Bancroft, Solon. (See Abbott, Charles E., assignor.)						
Bancroft Vestibule Car Company. (See Bancroft, George W., assignor.)						
Bane, Charles F., Lafayette, Ind. Device for automatically opening valves in air-brake couplings	514,405	Feb. 6	715	181	66	988
Banes, John H. (See Peay, Walter W., assignor.)						
Bang, Henry J., New York, N. Y. Electrically-operated register for barrels, &c	526,140	Sept. 18	1422	333	68	1435
Bang, Ivar A. F., and M. C. A. Ruffin, Paris, France. Manufacture of anhydrous stannic acid	529,100	Nov. 13	1042		69	856
Bangert, John D., Baltimore, Md. Apparatus for mixing flour of different grades	512,354	Jan. 9	1029	251 252	66	206
Bangerter, Fred, assignor to Automatic Novelty Manufacturing Company, San Francisco, Cal. Automatic delineating-machine	512,089	Jan. 2	603	145	66	115
Banholzer, Paul P., Philadelphia, Pa. Electric-railway conduit	518,540	Apr. 17	1912	473	67	361
Banker, George W., Keene, N. Y. Can-faucet	520,840	June 5	157	35	67	1226
Banker, Howard E., Western Springs, Ill. Automatic valve-gear for tile-presses	521,944	June 26	2122	509	67	1636
Banker, John P., Honey Grove, Tex. Quilting-frame	516,423	Mar. 13	1132	269	66	1679
Banks, Thomas L., London, England. Fireproof floor, ceiling, &c	529,153	Nov. 13	1129	273	69	872
Banks, Thomas L., London, England. Fireproof framing for partition or other walls	529,154	Nov. 13	1131	274	69	872
Bannan, Lewis M., San Francisco, Cal. Gage for maufolding apparatus	522,447	July 3	474	120	68	94
Bannatyne, Archibald, assignor to Waterbury Clock Company, Waterbury, Conn. Clock-case	520,628	May 29	2927	708	67	1140
Banner, John W., Banner's Elk, N. C. Brace and bit	528,137	Oct. 30	2473	598	69	516
Bannister, Louis H., Pasadena, Cal. Detachable casket-handle	520,015	May 15	1874	458	67	914
Bannister, Louis H., Pasadena, Cal. Detachable handle for caskets	520,016	May 15	1876	458	67	914
Bannister, Louis H., Pasadena, Cal. Casket-handle	527,191	Oct. 9	835	203	69	170
Bannister, Maunsel C. (See Price and Bannister.)						
Banwell, James, assignor to Cleveland Wood Turning Company, Cleveland, Ohio. Universal rod and ring machine	526,673	Oct. 2	5	2	69	4
Banwell, James, assignor to Cleveland Wood Turning Company and J. A. Saunders, Cleveland, Ohio. Machine for making handles for sad-irons	526,672	Oct. 2	3	1	69	3
Baptist, William, New Orleans, La. Apparatus for driving piles in running water. (Re-issue)	11,429	July 10	1341	333	68	270
Baptist, William, New Orleans, La. Apparatus for holding ends of and closing crevasses	529,580	Nov. 20	1912	455 456	69	1033
Barabasz, Mieczyslaw. (See Radomski, John, assignor.)						
Barber, Arthur J., assignor of two-thirds to E. J. Whittleton and M. V. Teetor, Sodas, N. Y. Overshoe attachment	519,656	May 8	1297	310	67	704
Barber, Clarence M., Cleveland, Ohio. Process of and apparatus for electroplating	523,099	July 17	1576	396	68	330
Barber, Emmot N., and J. H. Whitehead, Kent, Ohio, assignors to Heaton Peninsular Button Fastener Company, Providence, R. I. Machine for attaching buttons	516,959	Mar. 20	2034	481	66	1865
Barber, Everett A., Lakewood, and A. B. Babbitt, Pawtucket, R. I. Street-car mechanism for operating switches	527,262	Oct. 9	956	232	69	192
Barber, George, Cleveland, Ohio. Adjustable curtain-pole support	524,080	Aug. 7	189	42	68	696
Barber, Henry A., assignor of one-half to A. H. Lefebvre, Watertown, N. Y. Air or gas compressor	526,288	Sept. 18	1674	395	68	1482
Barber, Henry A., assignor of one-half to A. H. Lefebvre, Watertown, N. Y. Centrifugal pump	526,339	Sept. 18	1761	418	68	1501
Barber, John C., St. Paul, Minn. Car-truck	528,844	Nov. 6	592	140	69	754
Barber, John T., Iron City, Ga. Double-stock plow	524,774	Aug. 21	1383	337	68	944
Barber, Theodore A., Falls Creek, Pa. Lumber-binder	524,663	Aug. 14	1193	292	68	997
Barber-Koenig Manufacturing Company. (See Koenig, Morris F., assignor.)						
Barber, Luther A., Groton, N. Y. Piano-action	527,399	Oct. 16	1190	292	69	249
Barberie, Louis H., Jacksonville, Fla. Square for picture-frame mats	513,665	Jan. 30	3242	795	66	744
Barber, Charles J., Lyons, France. Accumulator-plate	521,970	June 26	2176	522	67	1645
Barbour, Robert C., assignor to Scovill Manufacturing Company, Waterbury, Conn. Air-pump	526,175	Sept. 18	1480	346	68	1445
Barclay, Harry H. (See Dahlstrom, John, assignor.)						
Barclay, John M., Kearney, Nebr. Wire-fencing tool	524,125	Aug. 7	269	63	68	711
Barclay, William P., Chicago, Ill. Car-wheel-grinding machine	518,730	Apr. 24	2254	560 561 562	67	455
Barcroft, Henry, Newry, Ireland. Apparatus for propelling boats or vessels	515,642	Feb. 27	2740	682 683	66	1414
Barcus, Joseph D., Shreve, Ohio. Grave-vault	530,380	Dec. 4	539	134	69	1313
Bard, George F., Norwich, Conn. Nipple-holder	527,168	Oct. 9	802	195	69	164
Barditzky, Herman, Florence, Ala. Combination-lock	528,585	Nov. 6	103	26	69	665
Bardsley, Henry, South Hadley Falls, assignor to Knowles Loom Works, Worcester, Mass. Shuttle-box-operating mechanism for looms	528,758	Nov. 6	415	101	69	722
Bardsley, William. (See Crofford and Bardsley.)						
Bardsley, William, Kearney, N. J., and W. K. Crofford, New York, N. Y. Hatchway-door mechanism	516,694	Mar. 20	1598	381	66	1783
Bardsley, William, Kearney, N. J., and W. K. Crofford, New York, N. Y. Door mechanism for elevator-shafts	516,695	Mar. 20	1602	381 382	66	1783
Bareis, Albert, assignor to L. Bareis, St. Louis, Mo. Wrench	521,076	June 5	578	136	67	1302
Bareis, Louisa. (See Bareis, Albert, assignor.)						
Barfield, George W., Rome, Ga. Car-coupling	521,094	June 5	614	145	67	1308
Barger, William M., Webster City, Iowa. Machine for stretching or removing fence-wire	520,475	May 29	2677	646	67	1094
Barham, John A., et al. (See Walker and Carter, assignors.)						
Barhydt, James A., assignor to Lima Locomotive and Machine Company, Lima, Ohio. Joint for steam or water pipes	523,615	July 24	2488	625	68	510
Barhydt, James A., assignor to G. W. Disman, Lima, Ohio. Steam-motor for cars	528,067	Oct. 23	2334	553 564	69	476
Baril, Thomas A., assignor of one-half to J. Salinger, Rochester, N. H. Glove-wrapper	526,340	Sept. 18	1763	418	68	1501
Barke, Martin O., Fergus Falls, Minn. Churn	512,574	Jan. 9	1401	338	66	276
Barker, Charles E., Mahaska, Kans. Harness attachment	513,750	Jan. 30	3376	832	66	768
Barker, Charles E., Mahaska, Kans. Crupper-fastener	526,098	Sept. 13	1349	314	69	1422
Barker, Clarence I. J., David City, Nebr. Slat-fastener	511,922	Jan. 2	334	78	66	64
Barker, Edward W. (See Speed, Barker, and Frank.)						
Barker, Erastus B., Newark, N. J. Roll-holder camera	518,802	Apr. 24	2369	587	67	476
Barker, Erastus B., New York, N. Y. Photographic-plate holder	520,290	May 23	2371	575 576	67	1021
Barker, Frank W. (See Graf, Martin T., assignor.)						
Barker, Henry. (See Bailey and Barker.)						
Barker, Henry B. F., Leeds, England. Sad-iron	525,579	Sept. 4	438	104	68	1232

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Barker, Henry C., assignor to J. Stocke, Jr., and H. C. Beckmann, St. Louis, Mo. Electrically-operated street-indicator for cars.	514,878	Feb. 13	1501	377	66	1154
Barker, James, Philadelphia, Pa. Rubbing-apron for carding-machines.	512,530	Jan. 9	1337	322	66	264
Barker, James, Philadelphia, Pa. Leather-skiving machine.	521,077	June 5	579	136	67	1302
Barker, Jeremiah J., assignor to R. M. Stivers, New York, N. Y. Vehicle-shaft support.	520,750	May 29	3142	761	67	1179
Barker, John T., Seneca, Ill. Harrow-disk sharpener.	518,215	Apr. 17	1350	337	67	280
Barker, Joseph H., New York, N. Y. Display-stand.	516,907	Mar. 20	1950	459	66	1848
Barker, Milan S., Eugene, Oreg. Breakdown gun.	530,321	Dec. 4	540	134	69	1313
Barkley, James J. (See Anderson, Holman M., assignor.)						
Bartlett, Samuel E., Red Bank, assignor of one-half to B. B. Mathews, Bound Brook, N. J. Switch-lock.	517,722	Apr. 3	518	125	67	100
Barling, Elliott D., Pontiac, Mich. Wire fence.	526,368	Sept. 18	1825	438	68	1513
Barlow Corn Planter Company. (See Barlow, John W., assignor.)						
Barlow, Herndon O., Duluth, Minn. Vegetable slicer or grater.	519,224	May 1	513	124	67	637
Barlow, Howard E. (See Benham and Barlow.)						
Barlow, John. (See Smith and Barlow.)						
Barlow, John W., assignor to Barlow Corn Planter Company, Quincy, Ill. Planter.	512,462	Jan. 9	1234	298	66	245
Barnard, Frederick H., assignor to Moore Carving Machine Company, Minneapolis, Minn. Article-holding table for polishing-machines.	515,986	Mar. 6	411	94, 95	66	1529
Barnard, George A., New York, N. Y. Cooling or condensing apparatus.	522,549	July 3	633	161	68	124
Barnard, George E., Fitchburg, Mass. Stamp-canceling machine.	518,440	Apr. 17	1746	434	67	352
Barnard, George L., assignor to Triumph Manufacturing Company, Milwaukee, Wis. Tubular coupling.	514,055	Feb. 6	126	30	66	877
Barnard, Ormond, Oxford Mills, Canada. Curd-cutter.	528,521	Nov. 6	1	1	69	647
Barnard, William, Philadelphia, Pa. Envelope.	526,799	Oct. 2	213	51	69	41
Barnard, William L. (See Arnold, Venker, and Barnard.)						
Barnett, Halbert F., Chicago, Ill. Bridge-gate.	516,179	Mar. 13	724	170	66	1603
Barnekov, Kiel V., Nevada, Mo. Upright-piano action.	525,186	Aug. 28	2115	514	68	1090
Barnes, Benjamin F., assignor to W. F. & John Barnes Company, Rockford, Ill. Milling-machine.	529,013	Nov. 13	899	212	69	829
Barnes, Burr F., and J. G. Smith, Circleville, Ohio. Sheet-delivering mechanism.	524,126	Aug. 7	271	63, 64	68	711
Barnes, David L., Chicago, Ill. Car-coupling.	518,873	Apr. 24	2477	613, 614	67	497
Barnes, David L., Chicago, Ill. Locomotive-boiler.	519,315	May 8	684	167	67	684
Barnes, David L., Chicago, Ill. Brake-beam.	528,522	Nov. 6	2	1, 2	69	647
Barnes, David L., Chicago, Ill. Engineer's brake-valve.	528,523	Nov. 6	4	2	69	647
Barnes, David L., Chicago, assignor to Fox Solid Pressed Steel Company, Joliet, Ill. Brake-beam for railway-cars.	512,497	Jan. 9	1294	311	66	256
Barnes, David L., Chicago, assignor to Fox Solid Pressed Steel Company, Joliet, Ill. Push-bar plate.	514,638	Feb. 13	1110	277	66	1080
Barnes, George B., Bellaire, Ohio. Bottle and stopper therefor.	526,674	Oct. 2	7	2	69	4
Barnes, Howard C. (See White, James H., assignor.)						
Barnes, John <i>et al.</i> (See Holmgren, Alfred, assignor.)						
Barnes, John A., Wadsworth, Ohio. Friction-clutch.	531,014	Dec. 18	1634	387, 388	69	1542
Barnes, John E., Des Moines, Iowa. Carpet-stretcher.	529,155	Nov. 13	1132	274	69	872
Barnes, John F. (See Greene, Henry W., assignor.)						
Barnes, Lewis. (See Hopler, Frank H., assignor.)						
Barnes, Merwin C., <i>et al.</i> (See Brown, Norman E., assignor.)						
Barnes, Ralph G., Syracuse, N. Y. Sash-cord fastener.	515,186	Feb. 20	1983	495	66	1258
Barnes, Ralph G., Syracuse, H. D. Pomeroy and E. W. Keyes, Phoenix, N. Y. Chain-making machine.	518,441	Apr. 17	1749	434, 435	67	353
Barnes, Walter. (See Ashberry and Barnes.)						
Barnes, William A., New York, N. Y. Gaze apparatus.	526,554	Sept. 25	2145	513	68	1583
Barnes, William A., assignor to Browne & Dowd Manufacturing Company, Meriden, Conn. Non-winding door-bell.	520,980	June 5	414	99	67	1272
Barnes, William F., assignor to W. F. & John Barnes Company, Rockford, Ill. Drilling-machine.	516,150	Mar. 6	669	157	66	1578
Barnes, William F., assignor to W. F. & John Barnes Company, Rockford, Ill. Lathe.	521,754	June 19	1790	425	67	1554
Barnes, William M., Auburn, Ky. Rotary steam-engine.	517,513	Apr. 3	159	35	67	32
Barnes, William M., Circleville, Ohio. Spindle for vehicle-axes.	523,506	July 24	2321	584	68	479
Barnett, Bernard, New Orleans, La. Street or station indicator.	515,929	Mar. 6	306	72, 73	66	1511
Barnett, David I. (See Woods and Barnett.)						
Barnett, Edward S., Kansas City, Mo. Type-writing-machine attachment.	513,976	Feb. 6	7	2	66	856
Barnett, George, <i>et al.</i> (See Gosling, Henry J., assignor.)						
Barnett, Henry, <i>et al.</i> (See Gosling, Henry J., assignor.)						
Barnett, Nathan W., assignor of one-half to A. H. Lindsay, Monaca, Pa. Steam-engine.	529,581	Nov. 20	1914	456	69	1034
Barnett, Stephen D., Newark, N. J. Die for making lock-nuts.	529,847	Nov. 27	2349	500	69	1124
Barnett, William H. (See Bates and Barnett.)						
Barnewitz, John, assignor of one-half to H. A. Richardson, Philadelphia, Pa. Packing powdered substances.	528,899	Nov. 6	681	164	69	771
Barney, Earl, Schenectady, N. Y. Thermostat.	516,043	Mar. 6	510	118	66	1547
Barney, Edwin E. (See Van Horn and Barney.)						
Barney, Heman L., Henderson, N. Y. Horse-brush.	521,078	June 5	530	136	67	1302
Barney, Martin V. (See Goan, Peter, assignor.)						
Barney, Nathan, Brooklyn, N. Y. Means for operating doors of dumping-cars.	515,853	Mar. 6	198	47	66	1490
Barney, Nathan, Brooklyn, N. Y. Dumping-wagon.	515,854	Mar. 6	200	47	66	1490
Barney & Smith Car Company. (See Tesseman, Henry, assignor.)						
Barney & Smith Car Company. (See Voss, William, assignor.)						
Barney, Thomas R., San Francisco, Cal. Squirrel-exterminator.	525,127	Aug. 23	2010	491	68	1073
Barney, Thomas R., San Francisco, Cal. Cartridge-crimping machine.	531,495	Dec. 25	2509	597	69	1720
Barnhurst, William, New York, N. Y. Safety-match.	521,079	June 5	582	137	67	1302
Barnum, Enoch, Warrensburg, Mo. Vegetable or fruit parer and scissors-sharpener.	531,404	Dec. 25	2340	558	69	1688
Barnum, John H. (See Barnum, John N., assignor.)						
Barnum, John N., assignor of one-third to J. H. Barnum, Cleveland, Ohio. Boiler-cleaner.	520,250	May 22	2305	559	67	1008
Barnum, Theodore F., and J. McDermott, deceased, Troy, N. Y.; M. McDermott, executrix. Embroidering-machine.	513,861	Jan. 30	3549	874	66	804
Barnum, William T., New Haven, Conn. Electrotype-block.	520,981	June 5	415	99	67	1272
Baron, Alfred L. (See Cockayne and Baron.)						
Barr, Clinton J., <i>et al.</i> (See Andrews Charles B., assignor.)						
Barr, Frank S., <i>et al.</i> (See Werline, Henry E., assignor.)						
Barr, Jacob N., Milwaukee, Wis. Drill-press.	512,355	Jan. 9	1030	252	66	206
Barr, John H., Meriden, Kans. Rubber-type printing-press.	516,885	Mar. 20	1908	450, 451	66	1841

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Barr, John H., deceased, Roanoke, Ind.; J. M. Barr, administrator. Automatic boiler-cleaner	528,283	Oct. 30	2723	657	69	561
Barr, John M., administrator. (See Barr, John H.)						
Barr, John U., Jr., Penn., assignor of one-fourth to J. I. Kay, R. D. Totten, and J. N. Cooke, Pittsburg, Pa. Top	521,148	June 12	702	164	67	1337
Barr, Mary L., Indianapolis, Ind. Baby-carriage	517,598	Apr. 3	296	69	67	58
Barr, Robert. (See Lowrie, Barr, and Scott.)						
Barr, Samuel D., assignor of three-fourths to E. L. Motts and S. Gbarky, Minerva, Ohio. Flour-bolt	515,812	Mar. 6	135	33	66	1478
Barr, Samuel D., assignor of three-fourths to S. Gharky, Minerva, and N. Feller, Beach City, Ohio. Flour-bolting reel	524,157	Aug. 7	330	78	68	722
Barr, William, Jr., and D. McKay, Kirkcudbright, Scotland. Forming tubular plaquets of india-rubber, &c.	519,900	May 15	1688	411	67	882
Barr, William C. (See Renssner, Albert F. L., assignor.)						
Barr, William C., Jersey City, N. J. Air-lock for caissons	514,843	Feb. 13	1447	364	66	1145
Barr, William C., Jersey City, N. J., assignor to J. H. Haggerty, New York, N. Y. Wrench	521,428	June 12	1199	284	67	1430
Barr, William H., Tiffin, Ohio. Breast-wall for glass-furnaces	521,147	June 12	701	164	67	1337
Barr, William H., Tiffin, Ohio. Machine for finishing tumblers, &c.	527,924	Oct. 23	2074	496	69	429
Barr, William H., Tiffin, Ohio. Glass-house pot or tank	528,710	Nov. 6	328	80	69	706
Barr, William H., Tiffin, Ohio. Machine for finishing glassware	530,820	Dec. 11	1301	314	69	1468
Barrackman, Demas A., Decatur, Ill. Thill-support	527,101	Oct. 9	690	170	69	144
Barré, Aimé, and E. Currier, Fall River, Mass. Railway-gate	523,783	July 31	2795	694	68	582
Barreiras, Enrique S. (See Steinbrenner, Andrew G., assignor.)						
Barrell, William L., Lawrence, Mass. Shoe-support	522,775	July 10	1049	259	68	214
Barrell, William L., Lawrence, Mass. Sole-leveling machine	522,776	July 10	1050	259	68	214
Barrett, Charles A., Malden, Mass. Street-car guard	523,507	July 24	2322	584	68	479
Barrett, Dominick, Maywood, Ill. Curling-iron	514,430	Feb. 6	748	191	66	994
Barrett, James, Boston, Mass. Grease-trap	527,580	Oct. 16	1488	362	69	305
Barrett, John C., Oakdale, Pa. Hose-clamp	520,326	May 22	2530	611	67	1052
Barrett, John F., Brooklyn, N. Y. Windlass	524,520	Aug. 14	959	236	68	853
Barrett, John F., Brooklyn, N. Y. Railway-switch	524,521	Aug. 14	960	236	68	853
Barrett, John P. (See Mehren, Jacob F., assignor.)						
Barrett, Josiah, Allegheny, Pa. Artesian-well apparatus	511,924	Jan. 2	338	79	66	65
Barrett, Josiah, Allegheny, Pa. Tool for handling drill-bits or other tools	527,103	Oct. 9	696	171	69	145
Barrett, Josiah, assignor to Duff Manufacturing Company, Allegheny, Pa. Jack	511,923	Jan. 2	335	79	66	64
Barrett, Josiah, assignor to Duff Manufacturing Company, Allegheny, Pa. Jack	527,102	Oct. 9	691	170	69	145
Barrett, Lucius O., Brattleborough, Vt. Gage	530,468	Dec. 4	674	168	69	1339
Barrett, Morgan T. (See Slater and Barrett.)						
Barrett, Oliver L., The Dalles, Oreg. Seat	522,142	June 26	2477	594	67	1700
Barrett, Patrick J., assignor of one-half to J. J. Frawley, president, Boston, Mass. Hose-coupling	514,806	Feb. 13	1382	347	66	1132
Barrett, William H., Weir, Kans. Dumping apparatus	513,862	Jan. 30	3553	875	66	804
Barrett, William R., Passaic, N. J. Pneumatic tire	513,863	Jan. 30	3554	875	66	804
Barrington, William A., Louisville, Ky. Coffee-pot	519,657	May 8	1298	310	67	794
Barron, Andrew F., Austin, Ill. Brick-drier	514,406	Feb. 6	716	181	66	988
Barron, Edwin, London, England. Tobacco-pipe	522,777	July 10	1054	260	68	214
Barron, Walter E., New York, N. Y. Type-writing machine	514,807	Feb. 13	1384	348	66	1133
Barrow, Thomas E., assignor to Mansfield Cash and Package Carrier Company, Mansfield, Ohio. Curved track for store-service apparatus	518,909	Apr. 24	2548	630	67	511
Barrows, Charles H., Willimantic, Conn. System of elevated and surface railways	517,535	Apr. 3	191	43, 44	67	39
Barrows, Charles H., Willimantic, Conn. Railway-car	528,845	Nov. 6	594	140	69	754
Barrows, John F., Saginaw, Mich. Banjo	517,913	Apr. 10	814	205	67	171
Barry, Edward E., Elk Grove, Cal. Voting-booth	516,292	Mar. 13	907	213	66	1639
Barry, James R., Syracuse, assignor of one-half to J. A. Anger, New York, N. Y. Bracket	522,283	July 3	191	52	68	39
Barry, William, Syracuse, N. Y. Mail-marking machine	511,745	Jan. 2	2	1, 2	66	3
Bartel, Otto, New York, N. Y. Clock-pendulum	515,855	Mar. 6	201	47	66	1490
Bartel, Otto, New York, N. Y. Clock-pendulum	515,856	Mar. 6	201	47	66	1490
Bartel, Otto, New York, N. Y. Pendulum clock	527,233	Oct. 9	908	220	69	185
Bartelt, Carl and F., Frankfort-on-the-Main, Germany. Apparatus for mixing gases with liquids	522,396	July 3	388	99	68	77
Bartelt, Friedrich. (See Bartelt, Carl and F.)						
Bartelt, Morris T., C. Golle, and G. Stein, Philadelphia, Pa. Shuttle-picking mechanism for looms	524,571	Aug. 14	1040	256	68	869
Barth, Alfred H., Lamar, Mo. Cut-off and strainer attachment for rain-water spouts	527,400	Oct. 16	1191	292	69	249
Barth, Emanuel, New York, N. Y. Bunch-shaper	529,544	Nov. 20	1853	441	69	1022
Barth, Emanuel, New York, N. Y. Cigar-bunching machine	530,254	Dec. 4	311	78	69	1272
Barth, Henry N., Chicago, Ill. Steam-boiler	521,844	June 26	1934	464	67	1598
Barth, Jessie R., et al. (See Kuhlmann, Henry F., assignor.)						
Barthelme, Johannes, Nippes, near Cologne, assignor to W. J. Schumacher, Cologne, Germany. Skid for railway-vehicles	519,624	May 8	1244	298	67	785
Bartholomew, Albert W., assignor of one-half to L. C. Paul, Boston, Mass. Puzzle	527,925	Oct. 23	2076	497	69	429
Bartholomew, Cassius M. and H. D., Newark, Ohio. Paper-wrapping machine	529,848	Nov. 27	2350	561	69	1124
Bartholomew, Coryell, Jackson, Mich. Fire-escape	528,284	Oct. 30	2724	658	69	562
Bartholomew, Gilbert A., Maumee, Ohio. Railway-chair	527,926	Oct. 23	2077	497	69	429
Bartholomew, Henry D. (See Bartholomew, Cassius M. and H. D.)						
Bartholomew, Orie Y., Des Moines, Iowa. Veterinary obstetrical forceps	518,580	Apr. 24	1986	491	67	409
Bartholomew, Thomas, Newark, Ohio. Printing-machine	531,088	Dec. 18	1763	420	69	1566
Bartlett, Alden A. (See Schauer and Bartlett.)						
Bartlett, Charles H., Jr., Pomona, Cal. Window-screen and attachment	517,183	Mar. 27	2443	575	66	1958
Bartlett, Charles H., assignor to Spring Curry Comb Company, South Bend, Ind. Curry-comb	522,578	July 10	696	176	68	152
Bartlett, Eayre O., Joplin, Mo. Pigment-furnace	515,039	Feb. 20	1751	442	66	1214
Bartlett, Eayre O., Joplin, Mo. Apparatus for the manufacture of pigment from metallic fumes	515,040	Feb. 20	1753	443	66	1214
Bartlett, Eayre O., Joplin, Mo. Method of and apparatus for making white-lead pigment from lead-fumes	515,041	Feb. 20	1754	443	66	1215

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Bartlett, Eayre O., Joplin, Mo. Making sublimed-lead pigment from lead-fumes.	515,042	Feb. 20	1756	-----	66	1215
Bartlett, Eayre O., Joplin, Mo. Manufacturing oxid of zinc.	515,043	Feb. 20	1757	443	66	1215
Bartlett, Eayre O., Joplin, Mo., assignor to Western Patent Company, Denver, Colo. Method of and apparatus for saving fumes of lead sulfid.	515,038	Feb. 20	1750	442	66	1214
Bartlett, Eayre O., and C. V. Petraeus, assignors to said Bartlett and O. H. Picher, Joplin, Mo. Making sublimed-lead pigment.	515,459	Feb. 27	2452	608	66	1358
Bartlett, Frank L., Cañon City, Colo. Treating ores.	512,531	Jan. 9	1338	323	66	264
Bartlett, George D., Plymouth, Mass. Machine for manufacturing shoe-shanks.	516,696	Mar. 20	1603	382	66	1783
Bartlett, George D., Plymouth, Mass. Sheet of metallic shoe-shanks.	518,304	Apr. 17	1491	373	67	306
Bartlett, George H., Tiburon, Cal. Paper can.	525,937	Sept. 11	1072	244	68	1358
Bartlett, George W., Lineville, Ala. Car-coupling.	531,430	Dec. 25	2384	570	69	1697
Bartlett, Harvey S. (See Ekuan, Oscar C. L., assignor.)						
Bartlett, James. (See Coats, Arthur W., assignor.)						
Bartlett, James F., assignor to W. Boldenwéck, Chicago, Ill. Combination umbrella-holder and stand.	518,581	Apr. 24	1987	491	67	409
Bartlett, John R., et al., trustees. (See Drawbaugh, Daniel, assignor.)						
Bartlett, John W., assignor of one-half to C. Grant, Moline, Ill. Cultivator-shovel.	525,310	Aug. 28	2304	560	68	1128
Bartley, Louis K., Winona, Minn. Adjustable angle-square.	518,685	Apr. 24	2160	540	67	440
Bartley, Robert J., Cleveland, Ohio. Curtain-stretcher.	512,000	June 12	795	187	67	1354
Bartley, Samuel, Bartley, N. J. Heating-boiler.	530,155	Dec. 4	131	35	69	1239
Bartol, William C., Lewisburg, Pa. Settee-arm.	518,130	Apr. 10	1186	297	67	232
Bartolomei, Frank. (See Van den Berghen, Albert L. R., assignor.)						
Barton, Albert E., Ensley, and G. B. McCormack, Pratt Mines, Ala. Refining ores.	519,901	May 15	1690	-----	67	882
Barton, Albert E., Ensley, and G. B. McCormack, Pratt Mines, Ala. Refining iron.	519,902	May 15	1691	-----	67	882
Barton, Charles F. (See Donnelly and Barton.)						
Barton, Delbert E., Los Angeles, Cal. Convertible fruit-car.	523,065	July 17	1525	{ 381 382 }	68	319
Barton, E. F., et al. (See Tabor, Byron D., assignor.)						
Barton, Elijah C., assignor to Gong Bell Manufacturing Co., East Hampton, Conn. Bicycle-bell.	513,606	Jan. 30	3138	770	66	725
Barton, Elmer E., Warrensburg, Ill. Elevator and dump.	514,535	Feb. 13	933	236	66	1046
Barton, George E. (See Macksey, Helmer, and Barton.)						
Barton, Gustavus. (See Shepherd, John, assignor.)						
Barton, John B. (See Jandus, William, assignor.)						
Barton, John W., and G. L. Nichols, Blue Rapids, Kans. Bail for pots, pails, &c.	511,925	Jan. 2	340	79	66	65
Barton, Richard T., New Haven, Conn. Folding bed.	530,742	Dec. 11	1180	{ 287 288 }	69	1444
Barton, Silas H. (See Young and Barton.)						
Barton, Thomas, Boston, Mass. Elevator-hatchway.	512,532	Jan. 9	1340	323	66	264
Bartsch, Charles, New York, N. Y. Clothes-line fastener.	531,248	Dec. 18	2063	493	69	1619
Baruch, Oskar, Berlin, Germany. Surgical chair.	516,908	Mar. 20	1951	459	66	1848
Barns, Carl, Washington, D. C. Apparatus for carbonating beer.	523,450	July 24	2213	556	68	460
Barus, Carl, Washington, D. C., assignor of one-half to A. Lieber, Indianapolis, Ind. Apparatus for carbonating beer.	531,356	Dec. 25	2256	538	69	1672
Barwick, Frank, Honolulu, Hawaii. Magazine or book holder.	531,496	Dec. 25	2511	598	69	1721
Basford, George M. (See Fry and Basford.)						
Basket, James M., assignor of one-half to C. T. Worthington, Leota Landing, Miss. Hand seed-planter.	515,643	Feb. 27	2742	684	66	1414
Baskette, Henry W. (See Nashold, Elias, assignor.)						
Basle Chemical Works Bindschelder. (See Müller, Carl O., assignor.)						
Bass, David. (See Young, John, assignor.)						
Basse & Selve. (See Kobertz, Peter L., assignor.)						
Bassett, Fred H., Saranac Lake, N. Y. Curtain-fixtute.	513,171	Jan. 23	2403	{ 580 581 }	66	551
Bassett, George B., Buffalo, N. Y. Water-meter.	530,743	Dec. 11	1182	288	69	1444
Bassett, Norman C., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Car-truck.	516,791	Mar. 20	1753	413	66	1809
Bassett, Norman C., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Railway-car truck.	521,778	June 26	1837	{ 437 438 }	67	1579
Bassett, Norman C., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Gear-casing for railway-motors.	522,579	July 10	697	177	68	152
Bassett, Norman C., Lynn, assignor to General Electric Company, Boston, Mass. Dynamo-electric machine or motor.	516,792	Mar. 20	1755	414	66	1810
Bassett, Norman C., Lynn, assignor to General Electric Company, Boston, Mass. Rotary broom.	516,793	Mar. 20	1756	414	66	1810
Bassett, Norman C., Lynn, assignor to General Electric Company, Boston, Mass. Electric motor for railway-cars.	527,927	Oct. 23	2079	{ 497 498 }	69	429
Bassett, Philo B., Bergen, N. Y. Measuring-faucet.	513,069	Jan. 23	2243	541	66	519
Baswitz, Carl, Berlin, Germany. Life-bath.	517,536	Apr. 3	194	44	67	39
Batchelder, William W., Jr., Boston, Mass., assignor to Phonoharp Company, Berwick, Me. Harp.	517,723	Apr. 3	520	126	67	101
Batcheller, Alexander F., Hawarden, Iowa. Corn-harvester.	512,999	Jan. 16	2144	{ 510 511 }	66	431
Batdorf, C. E. (See Thatcher, Elston R., assignor.)						
Bate, Henry, Maldon, England. Gear case or cover for velocipedes.	513,864	Jan. 30	3555	875	66	805
Bate, James R. (See Wohlrich, Louis J., assignor.)						
Bate, James R., Cincinnati, Ohio. Preserving wood.	522,284	July 3	192	52	68	40
Bate, Wallace H., Belmont, Mass. Float for ball-cocks.	513,474	Jan. 30	2900	715	66	682
Bateman, George C., assignor of one-half to R. Sheppard, Halifax, Canada. Game-counter.	514,897	Feb. 20	1538	384	66	1176
Bates, George A., Chicago, Ill. Self-registering try-square.	511,746	Jan. 2	12	3	66	5
Bates, Henry A., Yonkers, N. Y. Thread-cop for sewing-machine shuttles.	521,080	June 5	584	137	67	1302
Bates, Henry A., Yonkers, N. Y. Shuttle for sewing-machines.	522,002	June 26	2246	539	67	1656
Bates, Henry A., Yonkers, N. Y., and W. H. Barnett, Newark, N. J., assignors to said Bates. Shuttle for sewing-machines.	515,187	Feb. 20	1984	495	66	1258
Bates, Herbert A., Bath, Me. Floor-set.	527,474	Oct. 16	1320	321	69	275
Bates, James H. (See Guest and Bates.)						
Bates, James P., assignor of one-third to F. P. Clements, Springfield, Mo. Sewer-pipe connection.	523,955	July 31	3118	775	68	644
Bates, John W., Hoboken, N. J., assignor of one-half to J. T. Trory, Brooklyn, N. Y. Smokeless boiler-setting.	519,658	May 8	1299	310	67	794
Bates, Lindon W., Chicago, Ill. Dredger.	521,580	June 19	1480	{ 346 347 }	67	1497
Bates, Lindon W., Chicago, Ill. Cutter for dredgers, excavators, &c.	526,514	Sept. 25	2088	{ 497 498 }	68	1573
Bates, Lindon W., Chicago, Ill. Dredging-machine.	527,762	Oct. 23	1788	430	68	377

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Bates, Onward, and G. W. Smith, Chicago, Ill. Guard for railways.....	527,192	Oct. 9	836	203	69	171
Bates, William P. (See Harde and Woodard, assignors.)						
Batey, David. (See Munro, Hart, and Batey.)						
Bath, John, Hyde Park, Mass. Micrometer-indicator.....	520,201	May 22	2223	541	67	993
Bath, John, Hyde Park, Mass. Micrometer-indicator.....	526,960	Oct. 2	476	117	69	90
Bath, John, Hyde Park, Mass. Calipers.....	527,651	Oct. 16	1601	387	69	325
Bath, Richard H., London, England. Exercising-machine.....	524,846	Aug. 21	1509	369	68	967
Batley, Sumter B., assignor to himself and J. W. Hartley, New York, N. Y. Switch mechanism.....	529,515	Nov. 20	1803	429	69	1013
Battles, Francis M. (See Miller, Joseph, Sr., assignor.)						
Bauer, Albert C. A., and F. D. Johnson, assignors to R. and F. E. Wheeler, Utica, N. Y. Sectional boiler or heater.....	519,297	May 1	642	156	67	661
Bauer, Aleck, and T. W. Heinemann, Chicago, Ill. Suspensory ponch.....	516,258	Mar. 13	860	200	66	1629
Bauer, Friedrich R., assignor to Firm of Max Friedheim, Hamburg, Germany. Machine for sharpening saws.....	518,731	Apr. 24	2256	561	67	456
Bauer, Friedrich R., New York, N. Y., assignor to G. F. W. J. Stemann, Hamburg, and M. P. C. F. A. Seebold, Berlin, Germany. Door-closer.....	529,101	Nov. 13	1043	251	69	856
Bauer, John C., and J. P. Feyereisen, Remsen, Iowa. Disk harrow.....	523,508	July 24	2323	584	68	479
Bauer, Theodor, Berlin, Germany. Coke-oven.....	513,257	Jan. 23	2349	{ 613 614 }	66	580
Baner, William and W. J., Allegheny, Pa. Spring-bending machine.....	525,326	Sept. 4	3	1	68	1151
Bauer, William J. (See Bauer, William and W. J.)						
Bauers, John, Baltimore, Md. Dumping-wagon.....	515,987	Mar. 6	413	95	66	1529
Baugh, Benjamin, Birmingham, England. Machine for powdering plates, &c.....	519,786	May 15	1508	{ 367 368 }	67	847
Bangh, Edward H., Mexia, Tex. Churn.....	525,938	Sept. 11	1074	244	68	1358
Bangh, John B., Detroit, Mich. Axle-pile.....	524,294	Aug. 7	552	131	68	760
Bangh, William S., Farmers' Institute, Ind. Hay-loader.....	515,272	Feb. 20	2132	530	66	1286
Baughman, Alton L. and D. L., Albion, Ind. Drill attachment for planters.....	513,664	Jan. 30	3240	795	66	743
Baughman, Delmer L. (See Baughman, Alton L. and D. L.)						
Baughman, Edson C., Topeka, Kans. Dipper.....	525,382	Sept. 4	109	28	68	1170
Bauhard, Alvin L., Bristol, Tenn. Automatic boiler-cleaner.....	521,874	June 26	1920	478	67	1608
Baum, Clarence M., Philadelphia, Pa. Apparatus for purifying steam and removing extraneous matter.....	515,105	Feb. 20	1845	465	66	1232
Baum, Jacob, Avondale, assignor to Victor Safe and Lock Company, Cincinnati, Ohio. Combined punching and riveting machine.....	523,393	July 24	2103	529	68	442
Baumann, Georg, Amberg, Germany. Cover for cans, &c.....	512,090	Jan. 2	604	145	66	116
Baumann, Robert, St. Louis, Mo. Electrically-operated adding-machine.....	522,097	June 26	2386	{ 574 575 }	67	1683
Baumann, Robert, St. Louis, Mo. Adding-machine.....	522,098	June 26	2389	575	67	1684
Baumeister, Frederick. (See Baumeister, Frederick S., assignor.)						
Baumeister, Frederick S., assignor of one-half to F. Baumeister, Rockwood, Mich. Splint-cutter.....	519,922	May 15	1821	446	67	905
Baumert, Christina. (See Pecht, John B., assignor.)						
Baumgarten, Albert, et al. (See Redlinger, Michael, assignor.)						
Baumgarten, Albert, et al. (See Redlinger and Morgan, assignors.)						
Baumgarten, Theodore L., assignor of one-half to F. C. Prindle, Hornellsville, N. Y. Slip-shaft coupling.....	517,787	Apr. 3	624	156	67	121
Baumgartner, John F., et al. (See Whitacre, William C., assignor.)						
Bausb, Christian H., Holyoke, Mass. Drilling-machine.....	515,988	Mar. 6	415	96	66	1529
Bausb, Christian H., Holyoke, Mass. Drilling-machine.....	515,989	Mar. 6	417	96	66	1530
Bayer, Joman, et al. (See Beisel, Franklin P., assignor.)						
Bavter, Charles S., New York, N. Y. Valve and joint.....	517,914	Apr. 10	817	205	67	172
Bavter, Charles S., New York, N. Y. Compression-joint.....	519,805	May 15	1539	376	67	853
Bavter, Charles S., New York, N. Y. Valve.....	520,692	Nov. 27	2086	499	69	1076
Bavter, George, New York, N. Y. Gas heating attachment for solid-fuel stoves.....	512,263	Jan. 9	888	214	66	180
Baxter, Almond S. (See Black, Arthur M., assignor.)						
Baxter, Clinton L., et al. (See Lewis, Andrew P., assignor.)						
Baxter, Hartley C., Brunswick, and H. R. Stickney, Portland, Me., assignors to Hemingway Manufacturing Company, Syracuse, N. Y. Can-filling machine.....	516,326	Mar. 13	962	{ 926 927 }	66	1649
Baxter, William, Jr., Baltimore, Md. Electric motor for street-cars.....	516,516	Mar. 13	1296	{ 309 310 }	66	1709
Baxter, William, Jr., Baltimore, Md. Electric generator.....	519,280	May 1	608	148	67	654
Baxter, William, Jr., Baltimore, Md. Electric motor or generator.....	519,281	May 1	611	149	67	655
Baxter, William, Jr., Baltimore, Md. Railway-car brake.....	531,582	Dec. 25	2649	635	69	1748
Baxter, William C. (See Churchill and Baxter.)						
Bay, Alphonse, St. Charles, Mo. Stovepipe ventilating attachment.....	528,711	Nov. 6	329	81	69	706
Bayer, Frank, assignor of one-half to T. B. Willson, New York, N. Y. Electric battery.....	514,115	Feb. 6	216	50	66	895
Bayer, Karl J., Elabanga, Russia. Making alumina.....	515,895	Mar. 6	257		66	1502
Bayerdorfer, Frank, Brooklyn, N. Y. Apparatus for recording speed of vehicles.....	531,147	Dec. 18	1874	445	69	1587
Bayley, Charles H., Boston, Mass. Skiving-machine.....	518,774	Apr. 24	2323	576	67	468
Bayley, Charles H., Boston, Mass. Pinking-machine.....	527,928	Oct. 23	2081	498	69	430
Bayley, Richard W., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake.....	528,712	Nov. 6	331	81	69	706
Bayley, William. (See Whiteley and Bayley.)						
Bayley, William, Springfield, Ohio. Machine for molding fence-posts.....	513,751	Jan. 30	3376	{ 832 833 }	66	768
Bayley, William, Springfield, Ohio. Lawn-mower.....	513,752	Jan. 30	3379	{ 833 834 }	66	769
Bayliss, John A., assignor of one-half to E. H. Fisher, Boston, Mass. Foot-rest.....	515,644	Feb. 27	2743	684	60	1415
Baynard, William H., Jr., Baltimore, Md., assignor to F. F. Stanley, Boston, Mass. Machine for describing shoe-patterns from lasts.....	523,193	July 17	1774	{ 444 445 }	68	364
Bayne, Dashiell, et al. (See Ringrose, Edward W., assignor.)						
Baynes, Edward C., and H. Henderson, Buffalo, N. Y. Nut-lock.....	518,641	Apr. 24	2086	520	67	426
Bays, William W., Rome, Ga. Automatic rain-water cut-off and filter.....	513,000	Jan. 16	2147	{ 511 512 }	66	432
Bays, William W., Rome, Ga. Harness or other strap.....	524,236	Aug. 7	453	106	68	744
Bazerque, Victor H., Washington, D. C. Device for mechanically applying manilage.....	527,009	Oct. 2	550	135	69	104
Beach, Edward S., et al. (See Kempster, Daniel E., assignor.)						
Beach, H. B. (See Finter, William, assignor.)						
Beach, John W., New York, N. Y. Heating system for cars, &c.....	521,008	June 5	459	{ 109 110 }	67	1279
Beach Manufacturing Company. (See Jaros, Samuel, assignor.)						
Beach, Oliver B., Stony Creek, Conn. Machine for black-leading electrotype-matrices.....	527,827	Oct. 23	1890	{ 453 454 }	69	395

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Beach, Thomas, Freeport, Pa. Mechanical movement	524,371	Aug. 14	712	173	68	808
Beadle, Clayton. (See Cross, Bevan, and Beadle.)						
Beadle, Thomas P., Climax, Mich. Car coupling	531,497	Dec. 25	2512	598	69	1721
Beairsto, Henry B., and H. S. Beckwith, Fort Fairfield, Me. Grinding-machine	525,939	Sept. 11	1075	244	63	1358
Beal, Francis R. (See Dennis, Edward M., assignor.)						
Beal, Francis R., Northville, Mich. Water-cooler and refrigerator	511,834	Jan. 2	138	35	66	29
Beal, Moses, Elyria, Ohio. Derrick	531,249	Dec. 18	2063	493	69	1619
Beal, Moses, Elyria, Ohio. Rock-drilling machine	531,431	Dec. 25	2385	570	69	1697
Beale, William S., Van Wert, Ohio. Life-preserver	513,977	Feb. 6	8	2	66	856
Beall, Albert E., Hubbard, Iowa. Spring-bed	514,898	Feb. 20	1539	385	66	1176
Beall, Charles W., Saratoga, Wyo. Funnel	529,998	Nov. 27	2624	630	69	1176
Beall, George H. (See Fraley, David R., assignor.)						
Beals, Joseph J., Cambridge, assignor of one-half to W. L. Broadbent, Boston, Mass. Life-guard for cars	522,099	June 26	2395	576	67	1684
Beals, Martin. (See Williamson, Charles E., assignor.)						
Beaman, Elmer A. (See Smith, George H., assignor.)						
Beaman, George W. (See Smith, Orson W., assignor.)						
Beaman, Jay F., Antwerp, N. Y. Game-board	529,582	Nov. 20	1915	456	69	1034
Bean, Ashton G., et al. (See Knapp, Charles, assignor.)						
Bean, Edward D., Arlington, Mass. Feed-bag	513,865	Jan. 30	3557	875	66	805
Bean, Edwin E. (See Knox and Bean.)						
Bean, Edwin E., Boston, Mass. Shoe-sewing machine	524,986	Aug. 21	1743	426	68	1010
Bean, Frank, Medford, assignor to Standard Rivet Company, Boston, Mass. Setting-machine	528,524	Nov. 6	5	2, 3	69	647
Bean, Hugh R., et al. (See Donahoe, Peter B., assignor.)						
Bean, William H., assignor to J. H. Jones, West Troy, N. Y. Curtain-fixture for cars	528,501	Oct. 30	3094	750	69	628
Bear, Robert T., St. German, England. Boot or shoe stretcher	515,857	Mar. 6	202	48	66	1490
Beard, Cornelius, Brookline, Mass. Detachable electric-wire-holding device	513,630	Jan. 30	3177	780	66	732
Beard, George M., Angola, Ind. Swinging folding gate	519,145	May 1	364	87	67	608
Beard, Murray W., Topisaw, Miss. Cultivator	522,957	July 17	1352	335 336	68	287
Beardslee, William F., New York, N. Y., assignor to A. Poor, Boston, Mass. Seam for fabrics	530,218	Dec. 4	249	60, 61	69	1261
Beardsley, Lauren S., Naugatuck, Conn. Supporting-insulator for electric wires	524,100	Aug. 7	220	51	68	702
Beardsley, Lester C., Cleveland, Ohio. Stationery-cabinet	531,250	Dec. 18	2064	493	69	1620
Beardsley, Roswell. (See King and Beardsley.)						
Beardsley, Rufus C., Lafayette, Ind. Conduit electric railway	514,056	Feb. 6	127	30	66	877
Beardsley, William N. (See Mosher, Beardsley, and Moulton.)						
Beardsworth, Albert C., Cleveland, Ohio. Safety device for elevator-gates	520,103	May 22	2030	495	67	959
Beares, Eugene, Ellenville, N. Y. Device for opening or closing valves for air-brake hose-couplings	512,935	Jan. 16	2042	483 484	66	412
Beary, Lorenzo D. (See Hudnall and Beary.)						
Beasley, William F., Baltimore, Md. Coin-package	522,643	July 10	804	201	68	171
Beaton, Allan J., New Britain, Conn. Pipe-hanger	528,319	Oct. 30	2783	672	69	572
Beattie, Frank, Leete Island, Conn. Electric railway-signal	519,938	May 15	1746	428 429	67	892
Beatty, John T. (See Anderson, Robert S., assignor.)						
Beatty, Samuel W., Bayou Goula, La. Dumping-car and attachments	529,583	Nov. 20	1916	457	69	1034
Beauchemin & Cie, C. F. (See Oligny, Jean D., assignor.)						
Beauchette, Agide J., Pelican Lake, Wis. Bearing for propeller-shafts	520,291	May 22	2372	576	67	1021
Beaudry, Augustin, assignor to J. T. Beaudry, Somerville, Mass. Power-hammer	526,370	Sept. 25	1832	435	68	1527
Beaudry, Jennie T. (See Beaudry, Augustin, assignor.)						
Beaumont, Charles E., and G. P. Wallington, assignors of one-third to L. A. Wallington, London, England. Steam-motor	527,356	Oct. 9	1114	272	69	221
Beaumont, Frederick J., assignor to Revolving Advertiser Company, Limited, London, England. Apparatus for successively displaying tablets for advertising	514,345	Feb. 6	629	161	66	971
Beaumont, James W., Waterbury, Conn. Button	515,188	Feb. 20	1985	495	66	1358
Beaumont, Roberts, and G. Washington, Leeds, England. Loom pattern mechanism	524,372	Aug. 14	714	174	68	808
Beaumont, William W., London, England. Electromagnetic variable-speed gearing	519,031	May 1	151	36	67	565
Beaumont, William W., London, England. Mechanical movement	526,213	Sept. 18	1555	364	68	1459
Beaver, Francis M., assignor of one-half to J. H. Griffin, Pleasant Valley, Tex. Double-tree	530,573	Dec. 11	806	220	69	1395
Bech, Christian L. G., Bellevue, Wash. Stringed musical instrument	521,228	June 12	847	198	67	1364
Béché, Jean, Hückeswagen, Germany. Pneumatic hammer	526,606	Sept. 25	2232	533	68	1599
Béché, Jean, Jr., Hückeswagen, Germany. Steam-hammer	514,694	Feb. 13	1198	298	66	1097
Béché, Jean, Jr., Hückeswagen, Germany. File-cutting machine	531,251	Dec. 18	2065	494	69	1620
Bechis, Charles, Turin, Italy. Sight for guns	517,514	Apr. 3	160	36	67	33
Bechmann, Albertina, Cincinnati, Ohio. Educational appliance	521,360	June 12	1090	256	67	1410
Bechstedt, Charles O., Hartford, Conn. Attachment for hair-clippers	530,984	Dec. 18	1581	375	69	1533
Bechtol, George T., Elmira, N. Y. Milling-cutter	512,463	Jan. 9	1237	299	66	246
Bechtold, William, Brooklyn, assignor of two-thirds to R. Liebmann, New York, N. Y. Safety-pin	516,997	Mar. 20	2007	496	66	1876
Beck, Charles, Philadelphia, Pa. Wire spool or reel	515,737	Mar. 6	2	1	66	1455
Beck, Charles E., Allegheny, Pa. Gear-wheel and making same	515,137	Feb. 20	1906	479	66	1243
Beck, Charles L., Rebersburg, Pa. Car-coupling	524,127	Aug. 7	274	64	68	712
Beck, Charles W., Chicago, Ill. Water-meter	529,156	Nov. 13	1133	274	69	873
Beck, Edwin A., Fort Worth, Tex. Box-fastener	527,043	Oct. 9	613	148	69	130
Beck, George, St. Louis, Mo. Harness attachment	529,014	Nov. 13	899	212	69	829
Beck, Gustav, Berne, Switzerland. Syringe	519,014	May 1	121	29	67	559
Beck, J. E. (See Curlin, Seth, assignor.)						
Beck, Jacob J., et al. (See Saur, William, assignor.)						
Beck, John F., and J. W. Koulna, Grand Rapids, Mich. Tube-cutter	516,424	Mar. 13	1133	269	66	1680
Beck, Matthias A., Milwaukee, Wis. Steering-engine	528,356	Oct. 30	2843	689 690	69	583
Beck, Thomas, Des Moines, Iowa. Car-loading machine	525,181	Aug. 28	2116	515	68	1090
Beckeman, John U., St. Louis, Mo. Safety-release-hook	518,131	Apr. 10	1187	297	67	233
Becker, Edward, Solingen, Germany. Corkscrew	518,018	Apr. 10	1004	252	67	202
Becker, Emilios C. F., Milledgeville, Ga. Vehicle-wheel	528,917	Nov. 13	739	173	69	802
Becker, Heinrich. (See Popp and Becker.)						
Becker, Johann H. (See Popp and Becker.)						
Becker, John J., assignor to Wayne Oil Tank Company, Fort Wayne, Ind. Barrel-truck	515,273	Feb. 20	2133	530	66	1286
Becker, Ludwig, Frankfort-on-the-Main, Germany. Means for disconnecting chains, buckles, straps, &c.	513,607	Jan. 30	3139	770 771	66	726
Becker, Melchior E., and R. Lind, Wilmington, Del. Fish or crab net	530,156	Dec. 4	133	35	69	1239

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Becker, Michael, <i>et al.</i> (See Walls, William H., assignor.)						
Beckert, Fred W., Ottumwa, Iowa. Grinding-wheel.	524,572	Aug. 14	1041	257	68	869
Beckert, William, Allegheny, Pa. Vehicle spring and axle attachment.	520,476	May 29	2678	647	67	1094
Beckett, Edward H., Glan-en-lan, Tan-y-Grisiau, and C. W. Roberts, Plas Wenynydd, Blaenau-Festiniog, England. Automatic weighing-machine.	527,928	Oct. 23	1892	454 455	69	395
Beckett, Richard T., Woodbury, N. J. Bottle-forming machine.	529,693	Nov. 27	2088	499 500	69	1076
Beckett, Richard T., Woodbury, N. J. Machine for molding glass.	529,694	Nov. 27	2091	501	69	1077
Beckley, Timothy. (See Doyle, William J. C., assignor.)						
Beckmann, Henry C., <i>et al.</i> (See Barker, Henry C., assignor.)						
Beckmann, Henry C., <i>et al.</i> (See Fernholtz, Emil, assignor.)						
Beckmann, Henry C., St. Louis, Mo. Indicator for electric cars.	515,274	Feb. 20	2134	530	66	1286
Beckwith, Arthur K., assignor to F. E. Lee, Dowagiac, Mich. Molder's apparatus.	530,319	Dec. 4	426	106 107	69	1292
Beckwith, Horatio S. (See Bearsto and Beckwith.)						
Beckwith, Ira W., Hayes Centre, Nebr. Smoke-consuming furnace.	513,070	Jan. 23	2245	541	66	519
Beckwith, James S., <i>et al.</i> (See Thompson, Wilson, assignor.)						
Becon, Lezin A. (See Frazier, Julius O., assignor.)						
Beckwar, John W., Millbank, S. D., and D. Shaw, Ortonville, Minn. Washing-machine.	531,089	Dec. 18	1768	421	69	1567
Bedale, James W., and J. G., Erie, Pa. Suction-box mechanism for paper-making machines.	524,299	Aug. 14	564	134	68	783
Bedale, Joseph G. (See Bedale, James W., and J. G.)						
Beddow, Josiah, assignor to Thomas W. Price Company, Philadelphia, Pa. Machine for forming tablets.	517,153	Mar. 27	2381	563	66	1947
Beddows, William, Nottingham, England. Rabbeting-plane.	512,147	Jan. 2	692	167	66	133
Bedell, William H., Monroe, N. H. Handsaw.	522,749	July 10	1009	250	68	206
Bedout, Aimé V. L., Cazabon, France. Meter for estimating the volume and density of alcohols, &c.	513,293	Jan. 23	2601	630	66	591
Beebe, Coldwell C. (See Bones, Benjamin K., assignor.)						
Beebe, Coldwell C., Racine, Wis. Artificial tooth-crown.	512,856	Jan. 16	1915	452	66	389
Beebe, Dillon, Newark, N. J. Fanet-bung.	530,255	Dec. 4	315	79	69	1272
Beebe, Enoch M., <i>et al.</i> (See Sweetland, Jerome B., assignor.)						
Beebe, James E. (See Geer, Costello B., assignor.)						
Beebe, John D., Columbus, Ohio, assignor to Beebe Tire Manufacturing Company, Portland, Me. Bicycle-tire.	524,272	Aug. 7	509	119	68	753
Beebe Tire Manufacturing Company. (See Beebe, John D., assignor.)						
Beebee, James H., Rochester, assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental vulcanizer.	524,708	Aug. 21	1420	348	68	952
Beebee, Livingston O., Jackson, Mich. Car-coupling.	525,327	Sept. 4	7	1	68	1152
Beecher, Ebenezer B., Westville, and J. P. Wright, New Haven, Conn., assignors to Diamond Match Company, Chicago, Ill. Machine for making matches.	528,457	Oct. 30	3018	729 730 731 732 733 734 735	69	613
Beecher, Hattie F., Port Townsend, Wash. Easel.	516,425	Mar. 13	1134	270	66	1680
Beecher, Samuel E. (See Neiman and Beecher.)						
Beechler, James J. (See Shearer, Thomas J., assignor.)						
Beeg, Hans, Durlach, Germany. Filter-press.	521,697	June 19	1677	393	67	1534
Beehler, George J., New York, N. Y. Lantern-holder for wagons, &c.	521,361	June 12	1091	256	67	1410
Beek, William G., Chicago, Ill., assignor to E. Kirstein's Sons Company, Rochester, N. Y. Eyeglasses or spectacles.	527,652	Oct. 16	1603	387	69	326
Beekman, Gerard, New York, N. Y. Mowing-machine.	526,018	Sept. 18	1211	279	68	1397
Beekman, John V., Plainfield, N. J. Hoisting apparatus.	524,300	Aug. 14	565	134 135	68	783
Beeland, George T., Macon, Ga. Card-holder.	526,431	Sept. 25	1961	467 468	68	1550
Beeler, Charles H., Jr., assignor of one-half to G. F. Jordan, Philadelphia, Pa. Parallel-ruler.	523,259	July 17	1889	475	68	386
Beem, John H., <i>et al.</i> (See Lowry, Austin, assignor.)						
Beer, Samson, Butte, Mont. Ore-concentrator.	531,498	Dec. 25	2514	598	69	1721
Beers, Andrew, Dansville, Mich. Paddle-propeller.	518,830	Apr. 24	2415	597 598	67	484
Beers, Louis G. (See Burton and Beers.)						
Beers, Louis G., Chicago, Ill. Screen.	517,724	Apr. 3	521	126	67	101
Beerstecher, Charles A., Centreville, Mich. Corn-planter.	522,040	June 26	2302	551	67	1667
Beery, John H., assignor of one-half to J. M. Anthony, Springfield, Ohio. Machine for applying strips to paper boxes.	516,983	Mar. 20	2072	490	66	1871
Beery, Samuel M., Chicago, Ill. Hose-coupling.	519,829	May 15	1575	325	67	860
Beesley, William, Freshfield, assignor of one-half to A. V. Wright, Formby, England. Steam-boiler furnace.	513,753	Jan. 30	3382	834	66	770
Begg, Peter B. (See Marsh, John A., assignor.)						
Begiebing, Emil F. (See Blake and Begiebing.)						
Begole, Gordon W., Stony Creek, Mich. Checkrein-hook.	529,674	Nov. 20	2054	492	69	1060
Begole, Gordon W., Stony Creek, assignor to E. A. Darling, Willis, Mich. Spectacle-case.	528,068	Oct. 23	2338	564 565	69	477
Begtrup, Julius, assignor to J. H. McEwen, Ridgway, Pa. Engine cross-head.	530,320	Dec. 4	429	107	69	1293
Behlen, Charles A., Cincinnati, Ohio. Carriage-curtain fastener.	514,346	Feb. 6	631	161	66	971
Behlen, Charles A., Cincinnati, Ohio. Carriage-spring.	528,458	Oct. 30	3029	735	69	615
Behlen, Charles A., assignor to L. G. Mayer, Cincinnati, Ohio, and H. K. James, Covington, Ky. Carriage-spring.	524,929	Aug. 21	1648	403	68	991
Behnke, Charles R., Bridgeport, Conn. Tool-holder for thread-cutters.	521,255	June 12	894	211	67	1372
Behr, Fritz B., London, England. Electric locomotive for elevated railways.	531,409	Dec. 25	2515	599 601	69	1721
Behrens, Hugo, Berlin, Germany. Building-block and apparatus for manufacturing same.	522,143	June 26	2478	594	67	1700
Baidler, Frank M., Upper Sandusky, Ohio. Whip-socket.	526,478	Sept. 25	2037	485	68	1562
Beller, Henry P. (See Kesseling, Wilhelm F., assignor.)						
Beisang, Joseph C., St. Paul, Minn. Device for removing waste from sheets of dough in cracker-machines, &c.	530,499	Dec. 11	751	184 185	69	1369
Beisel, Franklin P., Manayunk, assignor of one-half to J. O. Bender and J. Bayer, Wissahickon, Pa. Washing-machine.	516,751	Mar. 20	1703	403	66	1801
Bel, Jules E. A., Barcelona, Spain. Water-meter.	524,411	Aug. 14	788	193	68	822
Belair, Isai. (See Bonvier and Belair.)						
Belair, Thomas, Montreal, Canada. Cultivator.	531,252	Dec. 18	2068	495	69	1620

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Bélanger, Victor, assignor of one-half to J. Quincy, Boston, Mass. Bicycle.....	526,360	Sept. 18	1805	427	68	1508
Belcher & Taylor Agricultural Tool Company. (See Gale and Tremblay, assignors.)						
Belchos, Donald M. (See Coram, John C., assignor.)						
Belding, Thomas C., assignor to Canton Steel Roofing Company, Canton, Ohio. Pipe-fastener.....	525,088	Aug. 28	1947	476	68	1062
Belding, Thomas C., Canton, Ohio, assignor to Canton Steel Roofing Company, of Ohio. Sheet-metal-pipe corrugating and seam-grooving machine.....	525,438	Sept. 4	204	50, 51	68	1189
Boliveau, Ludger, Lynn, Mass. Sewer-trap cleaner.....	528,459	Oct. 30	3030	735	69	616
Belknap, Charles A., Brooklyn, N. Y. Machine for addressing envelopes and wrappers.....	523,451	July 24	2215	556 } 557 }	68	460
Belknap, Charles A., Brooklyn, N. Y. Stencil-card for addressing-machines.....	524,081	Aug. 7	190	43	68	696
Belknap, Frank D., New York, N. Y. Reinforced stencil-card.....	530,918	Dec. 18	1466	347	69	1513
Belknap, Frank D., New York, N. Y. Reinforced stencil-card.....	530,919	Dec. 18	1467	348	69	1513
Bell, Alfred H. (See Carter, Bell, and Boehm.)						
Bell, Enos T. (See Forsyth and Bell.)						
Bell, George W., St. Joseph, Mo., assignor to Bell Hernia Treatment Company, Hamilton county, Ohio. Truss.....	515,948	Mar. 6	336	80	66	1516
Bell, Henry, St. Kilda, Victoria. Spark-arrester.....	526,828	Oct. 2	260	63	69	49
Bell Hernia Treatment Company. (See Bell, George W., assignor.)						
Bell, John. (See Rumeey, Oscar C., assignor.)						
Bell, John, Toronto, Canada. Ball-bearing axle.....	514,434	Feb. 13	756	194	66	1013
Bell, John T., deceased, (H. C. Graves, executor) and A. T. Stewart, assignors to Ohio Rake Company, Dayton, Ohio. Hay rake and loader.....	520,422	May 29	2587	626 } 627 }	67	1078
Bell, John W., et al. (See Moon, Hermon, assignor.)						
Bell, Joseph, Troutdale, Oreg. Feed-water heater.....	516,426	Mar. 13	1135	270	66	1680
Bell, Joseph N., Sharp, Ala. Planter and distributor.....	512,936	Jan. 16	2043	484	66	412
Bell, Louis, assignor to General Electric Company, Boston, Mass. Armature for dynamo-electric machines.....	516,794	Mar. 20	1757	414 } 415 }	66	1810
Bell, Louis, assignor to General Electric Company, Boston, Mass. Armature for induction-motors.....	516,795	Mar. 20	1759	415	66	1810
Bell, Louis, assignor to General Electric Company, Boston, Mass. Regulation of multiphase systems.....	516,796	Mar. 20	1760	415	66	1811
Bell, Louis, assignor to General Electric Company, Boston, Mass. Coil for dynamo-electric machines.....	516,797	Mar. 20	1761	415	66	1811
Bell, Louis, assignor to General Electric Company, Boston, Mass. Means for exciting field-magnets of alternating-current dynamos.....	518,217	Apr. 17	1353	338	67	280
Bell, Louis, assignor to General Electric Company, Boston, Mass. Regulator for dynamo-electric machines.....	518,218	Apr. 17	1355	338	67	281
Bell, Louis, assignor to General Electric Company, Boston, Mass. Method of and means for starting alternating-current motors.....	520,764	June 5	5	2	67	1197
Bell, Louis, assignor to General Electric Company, Boston, Mass. Starting alternating-current motors.....	531,432	Dec. 25	2386	571	69	1698
Bell, Louis, Boston, Mass., assignor to General Electric Company, of New York. Multiphase-current motor.....	520,763	June 5	4	1	67	1197
Bell, Louis, Lynn, assignor to General Electric Company, Boston, Mass. Dynamo-electric machine.....	522,580	July 10	698	177 } 178 }	68	153
Bell, Robert, St. Louis, Mo. Temporary binder.....	515,138	Feb. 20	1906	479	66	1243
Bell, Robert M., Minneapolis, Minn. Button-fastener.....	513,866	Jan. 30	3558	876	66	805
Bell Telephone Company of Canada. (See Brown, Charles W., assignor.)						
Bell, Thomas H., Brampton, Canada. Fruit-cleaning machine.....	523,394	July 24	2105	529	68	442
Bell, Thomas J., Cincinnati, Ohio. Fire-pail.....	516,749	Mar. 20	1700	402	66	1801
Bell, Willard J., et al. (See Scott, Dennis M., assignor.)						
Bell, William, Murrumbidgee, J. W. Broomhead and W. A. Jones, Sydney, New South Wales. Animal-shears.....	518,204	Apr. 10	1327	331	67	259
Bellamy, Alfred R. (See Andrew and Bellamy.)						
Bellamy, Charles L., Arlington, N. J. Roller chafe-iron.....	531,500	Dec. 25	2517	601	69	1722
Bellamy, William H. (See Schnepf, John, assignor.)						
Belle City Bolster Spring Company. (See Van Valkenburg, Ellis M., assignor.)						
Belliss, George E., and A. Morcom, Birmingham, England. Pump for compressing air or gases.....	519,225	May 1	514	125	67	637
Bellon, Camille. (See Granjon and Bellon.)						
Belmor, Charles G. (See Loomer and Belmer.)						
Belmor, George E., San Francisco, Cal. Gas-burning furnace for steam-boilers.....	519,373	May 8	799	195	67	706
Belmor, George E., San Francisco, Cal. Steam-boiler furnace.....	524,128	Aug. 7	275	64, 65	68	712
Belton, John D., et al. (See Eisler, Stephen N., assignor.)						
Beltzer, Joseph, assignor to J. H. Butler, Columbus, Ohio. Washing-machine.....	517,537	Apr. 3	196	44	67	39
Bem, Francisco V. de, Gloucester, Mass. Fisherman's reel.....	522,503	July 3	557	142	68	110
Bemelmans, Leon, Brussels, Belgium. Gas-producer.....	515,569	Feb. 27	2627	653	66	1391
Bemis, Albert T., Indianapolis, Ind. Brick-drier car.....	529,675	Nov. 20	2055	492	69	1060
Bemis, Charles A., and E. A. Adams, West Medway, Mass. Automatic bicycle-bell.....	531,457	Dec. 25	2446	582	69	1709
Bemis, Daniel D., Eastonville, Colo., and F. H. Bemis, Footville, Wis.; said Daniel D., Bemis assignor to said F. H. Bemis. Transplanter.....	520,477	May 29	2680	647 } 648 }	67	1094
Bemis, Fred H. (See Bemis, Daniel D. and F. H.)						
Bemis, Fred H., Footville, Wis. Transplanter.....	520,478	May 29	2682	648 } 649 }	67	1095
Bena, Frank, St. Louis, Mo. Tricycle.....	517,019	Mar. 27	2147	509	66	1902
Benagh, Henry C., Nashville, Tenn., assignor, by mesne assignments, to Johnson Company, Johnstown, Pa. Railway-switch.....	519,298	May 1	643	157	67	661
Bender, Adam, Philadelphia, Pa. Tray for invalids.....	517,677	Apr. 3	445	107	67	85
Bender, Frederick M., Louisville, Ky. Fire-escape.....	518,659	Apr. 24	2115	528	67	431
Bender, Hiram, Milwaukee, Wis. Force-pump.....	524,237	Aug. 7	454	106	68	744
Bender, James O., et al. (See Beisel, Franklin P., assignor.)						
Bending, William P., assignor of one-half to A. Wolf & Co., Chambersburg, Pa. Churn.....	526,607	Sept. 25	2233	533	68	1599
Bendler, August C., Milwaukee, Wis., and W. E. Bendler, Chicago, Ill. Carriage-top worker.....	527,314	Oct. 9	1048	253	69	209
Bendler, William E. (See Bendler, August C. and W. E.)						
Benedict & Burnham Manufacturing Company. (See Hallas, James G., assignor.)						
Benedict, Hiram A. and M., New York, N. Y. Gridiron or broiler.....	514,435	Feb. 13	757	194	66	1014
Benedict, Maria. (See Benedict, Hiram A. and M.)						
Benedict, Percy S., New Orleans, La. Lantern-slide mat.....	524,301	Aug. 14	567	135	68	783
Benesch, Charles, assignor of one-half to C. A. Harrison, Walpeton, N. D. Hand-car.....	514,844	Feb. 13	1449	365	66	1144
Benesch, Joseph, Racine, Wis. Flux-separator.....	514,899	Feb. 20	1540	365	66	1176
Bengué, Jules, Paris, France. Receptacle for ethyl chloride, &c.....	523,159	July 17	1704	428	68	352
Benham, Elijah B., and H. E. Barlow, Providence, R. I. Grinding-machine.....	520,665	May 29	2287	722	67	1151
Benham, Elijah B., and H. E. Barlow, Providence, R. I. Water-motor.....	522,958	July 17	1354	336	68	288

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Benham, Elijah B., and H. E. Barlow, Providence, R. I., assignors to Diamond Match Company, Chicago, Ill. Machine for making splints for matches, toothpicks, &c	530,382	Dec. 4	542	135	69	1314
Benicia Agricultural Works. (See Montgomery, Thomas B., assignor.)						
Benjamin, Dana H., Utica, N. Y., assignor to White Manufacturing Company, Minneapolis, Minn. Ironing-machine	529,695	Nov. 27	2091	501	69	1077
Benjamin, Frederick L., assignor, by mesne assignments, to L. P. Ordway, St. Paul, Minn. Flax-puller	521,927	June 26	2090	502	67	1629
Benjamin, Fredrick L., assignor, by mesne assignments, to L. P. Ordway, St. Paul, Minn. Flax-puller	521,926	June 26	2089	501	67	1628
Benjamin, George H. (See Miller, William H., assignor.)						
Benjamin, George H., New York, N. Y., assignor to Siemens & Halske, Berlin, Germany. Conductor-switch	526,850	Oct. 2	294	71, 72 434 435	69	56
Benjamin, Newton, Elmira, N. Y. Railway-tie	524,999	Aug. 28	1780	68	1032	
Benn, Alfred R., assignor of one-half to E. Reynolds, Brooklyn, N. Y. Rotary engine	520,554	May 29	2810	67	1118	
Benner, Arthur P. (See Martin, Charles N., assignor.)						
Benner, Lorenzo D. (See Hill and Benner.)						
Benner, Lorenzo D., Peoria, Ill. Seed-planter	519,692	May 15	1355	67	819	
Bennett, Arthur F. (See Tilford and Bennett.)						
Bennett, Claude W. (See Churchill and Bennett.)						
Bennett, Claude W., Penn. and F. Chapman, Newburg, Mich. Wire fence	517,423	Apr. 3	4	2	67	3
Bennett, Darius, assignor to Nelsonville Foundry and Machine Company, Nelsonville, Ohio. Clutch	529,015	Nov. 13	900	212	69	829
Bennett, Darius, assignor to Nelsonville Foundry and Machine Company, Nelsonville, Ohio. Elevating or conveying chain attachment-block	529,016	Nov. 13	901	213	69	830
Bennett, Edward A. (See Jackson, Smith, and Bennett.)						
Bennett, Erastus S., Denver, Colo. Amalgamator	516,623	Mar. 13	1471	66	1743	
Bennett, Erastus S., Denver, Colo. Amalgamator	516,624	Mar. 13	1472	349	66	1743
Bennett, Erastus S., Denver, Colo. Dredge-bucket	516,697	Mar. 20	1605	382	66	1784
Bennett, Erastus S., Denver, Colo. Leveling mechanism for tank and dredge platforms	516,785	Mar. 20	1746	411	66	1708
Bennett, Erastus S., Denver, Colo. Dredge	526,005	Sept. 11	1188	272	68	1380
Bennett, Erastus S., Denver, Colo. Means for supporting dredge or other structures	527,741	Oct. 16	1747	422	69	352
Bennett, George M., assignor of one-half to S. W. Peregrine, Grand Rapids, Mich. Joint for school furniture	525,756	Sept. 11	754	175	68	1301
Bennett, George M., assignor to Grand Rapids Seating Company, Grand Rapids, Mich. Folding chair	531,583	Dec. 25	2651	69	1749	
Bennett, Harwell L., and R. B. Adams, Westerville, Ohio. Stump-puller	515,317	Feb. 27	2224	551	66	1315
Bennett, Henry B., et al. (See Mewer, William J., assignor.)						
Bennett, John H. (See Florence and Bennett.)						
Bennett, John W., Woodford's, Cal. Gate	512,598	Jan. 9	1439	347	66	283
Bennett, Joseph S., Winnipeg, Canada. Box or drawer	512,091	Jan. 2	605	145	66	116
Bennett, Josiah C. (See Thackston, William D., assignor.)						
Bennett, Josiah C. (See Whitaker, Clarence E., assignor.)						
Bennett, Richard, Eureka Springs, Ark. Car-coupling	525,249	Aug. 28	2210	538	68	1108
Bennett, Ruloff R., Brooklyn, N. Y. Invalid's coach	518,831	Apr. 24	2416	67	484	
Bennett, Thomas O., assignor to J. H. Geddes, managing director, Sydney, New South Wales. Animal-shears	514,536	Feb. 13	934	236	66	1047
Bennett, Walter E., Boston, Mass., assignor to Morley Bntton Manufacturing Company, Portsmouth, N. H. Punching-machine	528,502	Oct. 30	3096	751	69	628
Bennett, William H., Chicago, Ill. Tenoning-machine	517,599	Apr. 3	297	69	67	58
Bennett, William H., Chicago, Ill. Tenoning-machine	525,835	Sept. 11	906	202	68	1328
Bennett, William H., assignor of one-half to J. O'Gorman, Chicago, Ill. Mop-wringer	519,146	May 1	366	87	67	608
Benninger, Tony H., Louisville, Ky. Bar-lock for doors	527,104	Oct. 9	700	171	69	146
Bennis, Alfred W. (See Bennis, Edward and A. W.)						
Bennis, Edward and A. W., Bolton, England. Furnace	528,219	Oct. 30	2611	629	69	540
Bennum, George W., Georgetown, Del. Eyeglasses	524,698	Aug. 21	1253	309	68	921
Bennum, George W., and J. L. McKim, Georgetown, Del. Eyeglasses	520,028	May 22	1903	464	67	935
Benoit, Hilaire, Brockton, Mass. Curtain-rod support	526,371	Sept. 25	1833	435	68	1527
Bensing, Jacob, Malinta, Ohio. Tile or brick cutting machine	524,302	Aug. 14	568	135	68	784
Bensinger, Moses, Chicago, Ill. Bar-fixture	523,784	July 31	2800	695	68	583
Benson, Arza A., Cleveland, Ohio. Machine for jointing listed staves	530,500	Dec. 11	753	185 186	69	1370
Benson, James M., and J. E. Berslin, Minneapolis, Minn. Combined kettle-cover, strainer, and steam-guard	531,300	Dec. 25	2162	517	69	1654
Benson, John D., Brooklyn, N. Y. Micrometer-scale	527,581	Oct. 16	1909	362	69	305
Benson, Letty C. (See Brooke, William M., assignor.)						
Benson, W. M. (See Putt, Harry M., assignor.)						
Benson, William B., Boston, Mass. Compressed-pulp gun	514,407	Feb. 6	718	182	66	989
Benson, William H., Youngstown, Ohio. Temporary binder	524,456	Aug. 14	857	210	68	836
Benster, Menzo M., Gettysburg, S. D. Horse-detacher	528,410	Oct. 30	2939	711	69	599
Bent & Brothers, S. (See Bent, Roderic L., assignor.)						
Bent, Fred F., Lake Geneva, Wis. Display-rack	529,439	Nov. 20	1663	396	69	989
Bent, George P. (See McChesney and Kunze, assignors.)						
Bent, Roderic L., Gardner, assignor to S. Bent & Brothers, South Gardner, Mass. Chair-seat	518,339	Apr. 17	1559	387	67	317
Bent, William E., Chicago, Ill. Musical instrument	516,427	Mar. 13	1137	271	66	1681
Bentley, Edward M., Boston, Mass. Electric locomotive	511,988	Jan. 2	434	102	66	83
Bentley, Edward M., Boston, Mass. Regulation of dynamo-electric machinery	524,733	Aug. 14	715	174	68	808
Bentley, Edward M., assignor to General Electric Company, Boston, Mass. Means for regulating alternating-current motors	522,820	July 10	1121	278	68	227
Bentley, Joseph J., Sadorus, Ill. Nut-lock	520,512	May 29	2739	663	67	1105
Bentley, Squire, assignor of one-third to A. Woodier, Paterson, N. J. Jacquard attachment for looms	519,374	May 8	801	196	67	706
Benton, Francis E., Steughton, Mass. Last	517,424	Apr. 3	5	2	67	4
Benton, Francis E., Steughton, Mass. Last	518,985	May 1	80	21	67	551
Benton, Francis E., Steughton, Mass. Last-block fastener	527,582	Oct. 16	1492	362	69	305
Benton, Major G., Coldwater, and G. S. Nissly, Saline, Mich. Incubator	530,676	Dec. 11	1075	261	69	1425
Bentrop, Carl A., Clinton, Iowa. Drilling-machine	527,929	Oct. 23	2082	498	69	430
Bentz, George C. (See Seamans, Edward W., assignor.)						
Berbecker & Co., Julius. (See Morris, Thomas, assignor.)						
Berdan, Marvin, Plymouth, Mich. Wire fence	521,328	June 12	1021	240	67	1395

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Berendt, Maximilian, <i>et al.</i> (See Müller, Rudolf, assignor.)						
Beretta, Abbondio, London, England. Drawer	516,293	Mar. 13	908	214	66	1639
Beretta, Joseph P., Chicago, Ill. Coin-actuated vending-machine	527,930	Oct. 23	2084	499	69	431
Berg, John A. P., Moline, Ill. Adjustable clamp-hook	527,763	Oct. 23	1789	431	69	377
Berg, Walter G., New York, N. Y. Overhead-cable traction	519,561	May 8	1130	271 272	67	765
Bergeman, Paul E., Berwick, Pa. Portable advertising device	512,937	Jan. 16	2044	484 485	66	413
Bergener, Charles, assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Lantern	529,017	Nov. 13	902	213	69	830
Berger, Ambrose J. B., Hingham, Mass., assignor to Steel Cable Engineering Company, of Maine. Car-fender	526,851	Oct. 2	296	72	69	56
Berger, Ambrose J. B., Hingham, Mass., assignor to Steel Cable Engineering Company, of Maine. Power-wheel for endless conveyers or elevators	528,357	Oct. 30	2847	690	69	584
Berger, Ambrose J. B., Hingham, Mass., assignor to Steel Cable Engineering Company, of Maine. Power-wheel	528,518	Oct. 30	3119	756	69	633
Berger, Ambrose J. B., Hingham, Mass., assignor to Steel Cable Engineering Company, of Maine. Grip-wheel	530,383	Dec. 4	545	135	69	1315
Berger, Charles G., assignor of one-half to F. C. Berger, New Haven, Conn. Hub	513,258	Jan. 23	2551	614	66	581
Berger, Fred C. (See Berger, Charles G., assignor.)						
Berger, Friedrich, Pilger, Nebr. Compound for cleaning boilers	517,562	Apr. 3	239	-----	67	47
Berger, Harry A., assignor to Berger Manufacturing Company, Canton, Ohio. Eaves-trough hanger	521,523	June 19	1390	322	67	1420
Berger, Henry A., Brooklyn, N. Y. Button-finishing machine	518,340	Apr. 17	1560	3-8	67	317
Berger Manufacturing Company. (See Berger, Harry A., assignor.)						
Berger, William H., Wyncote, Pa. Damper or damper-clip	516,464	Mar. 13	1205	289	66	1603
Bergevin, Georges, Paris, France. Safety-lock	525,250	Aug. 28	2211	538 539	68	1108
Bergfels, Henry, Newark, N. J. Bicycle-saddle	517,425	Apr. 3	5	2	67	4
Bergfels, Henry, Newark, N. J. Bicycle-saddle	517,538	Apr. 3	197	44, 45	67	39
Bergh, Bror F. (See Johnston and Bergh.)						
Berghind, Erik, and A. Reuterdahl, Providence, R. I. Polishing-machine	529,102	Nov. 13	1044	252	69	856
Berglöf, Algot. (See Hammarberg and Berglöf.)						
Bergman, Hjalmar L. (See Bergman, Martin L. and H. L.)						
Bergman, Martin L., Spokane, Wash. Bottle-stopper and vent combined	523,967	Aug. 7	2	1	68	663
Bergman, Martin L., Spokane, Wash., and H. L. Bergman, Sacramento, Cal. Faucet and nozzle combined	513,475	Jan. 30	2901	715	66	682
Bergman, Oskar W., and E. Ternström, Paris, France. Breech mechanism for ordnance	520,029	May 22	1903	465 466	67	936
Bergmann, Sigmund. (See Dempster, John T., assignor.)						
Bergmann, Sigmund. (See Laven, Erwin, assignor.)						
Bergmann, Sigmund. (See Swoboda, Otto H., assignor.)						
Bergmann, Sigmund, New York, N. Y. Hood for electric-arc lamps	514,057	Feb. 6	128	30	66	878
Bergmann, Sigmund, New York, N. Y. Electric-arc-light fixture	514,058	Feb. 6	129	30	66	878
Bergmann, Sigmund, New York, N. Y. Shade-holder for lamps	514,639	Feb. 13	1111	277	66	1080
Bergmann, Sigmund, New York, N. Y. Electric-arc lamp	523,119	Oct. 23	2434	588	69	494
Bergner, Adolf M., Chicago, Ill. Shade-hanger	523,452	July 24	2218	558	68	461
Bergstresser, Stewart L., Smethport, Pa. Combined mop and wringer	528,525	Nov. 6	8	4	69	648
Bergstresser, Stewart L., and C. F. Miznot, Smethport, Pa. Curtain-fixture	530,079	Dec. 4	6	2	69	1216
Bergström, Carl J. (See Larsson and Bergström.)						
Bergstrom, Walter A., Paterson, N. J. Fire-escape	512,498	Jan. 9	1295	311	66	256
Bergundthal, W. C. (See Stewart, Fred W., assignor.)						
Berk, Richard B., assignor of one-half to G. Mödler, Dayton, Ohio. Slate cleaner and drier	524,158	Aug. 7	332	78	68	722
Berkes, Charles W., and P. Lesch, Milwaukee, Wis. Wire fence	526,372	Sept. 25	1834	435	68	1527
Berkey, William A. (See Lisle, Myron C., assignor.)						
Berkman, Bernard H., Long Island City, N. Y. Knife-sharpener	530,613	Dec. 11	962	236	69	1406
Berkstresser, John E., Sylacauga, Ala. Horse-detacher	531,015	Dec. 18	1635	388	69	1543
Berlin Machine Works. (See Thomas, John R., assignor.)						
Berliner, Adolf, assignor to K. Köhler, Berlin, Germany. Advertising apparatus	521,009	June 5	460	110	67	1279
Berliner Brothers <i>et al.</i> (See Johnson, Charles T., assignor.)						
Berliner Gussstahl-Fabrik und Eisengiesserei Hugo Hartung Actien-Gesellschaft. (See Turnofsky, Carl, assignor.)						
Bernard, Alfred F., San Luis Obispo, Cal. Lock and dumping mechanism for wheeled scrapers	516,044	Mar. 6	512	119	66	1548
Bernard, Alfred F., San Luis Obispo, Cal. Earth-scraping machine	526,675	Oct. 2	8	2, 3	69	4
Bernard, Alfred F., San Luis Obispo, Cal. Wheeled scraper	526,676	Oct. 2	11	3	69	5
Bernard, Alfred F., San Luis Obispo, Cal. Attachment for wheeled scrapers	526,677	Oct. 2	13	3	69	5
Bernard, James A., assignor to Locomotive Feed Water Heater Company, Bakersfield, Cal. Circulating tubular boiler	525,940	Sept. 11	1076	245	68	1359
Bernard, James T., Neapolis, Va. Saw-set	530,501	Dec. 11	756	185	69	1370
Bernard, John W., Ham's Prairie, Mo. Beefsteak-hacker	513,666	Jan. 30	3243	796	66	744
Bernard, William A., assignor to Wm. Schollhorn Company, New Haven, Conn. Pliers	526,479	Sept. 25	2039	485	68	1562
Bernard, William A., assignor to Wm. Schollhorn Company, New Haven, Conn. Cutting-pliers	526,480	Sept. 25	2040	485	68	1563
Bernardin, Alfred L., assignor to Bernardin Metallic Cork Company, Evansville, Ind. Bottle-capping machine	527,193	Oct. 9	837	204	69	171
Bernardin Metallic Cork Company. (See Bernardin, Alfred L., assignor.)						
Bernardin Metallic Cork Company. (See Leavitt, Frank M., assignor.)						
Berndes, Gustaf F. (See Wiberg, Knut E., assignor.)						
Berner, Fredrick, Jr., Indianapolis, Ind., assignor of three-fourths to M. B. Crist. Wood-embossing machine	511,926	Jan. 2	341	79, 80	66	65
Berner, Herman, Louisville, Ky. Expanding mandrel	525,645	Sept. 4	535	130	68	1251
Bernhard, George, assignor of one-half to E. A. Evans, Dayton, Ohio. Convertible box or coop	512,599	Jan. 9	1439	347	66	283
Bernhardt, Charles, assignor of one-half to W. H. Altman, Chicago, Ill. Battery-changer for electric circuits	524,374	Aug. 14	717	174	68	809
Bernhardt, Herman V., Brooklyn, N. Y. Automatic step for micrometer-gages	528,759	Nov. 6	417	101	69	722
Bernhardt, Herman V., Brooklyn, assignor to J. B. Bowden & Co., New York, N. Y. Manufacturing ornamented rings	512,676	Jan. 16	1568	377	66	323
Bernhardt, Herman V., Brooklyn, assignor to J. B. Bowden & Co., New York, N. Y. Tool for expanding rings	516,180	Mar. 13	725	170	66	1603
Bernheim, Charles H., Conover, N. C. Brace for bedsteads	512,092	Jan. 2	606	145	66	116
Bernheim, Charles H., Lexington, N. C. Adjustable ratchet-wrench	524,412	Aug. 14	791	193	68	822

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Bernheim, Gustav. (See Flocke, Robert, assignor.)						
Bernheim, Gustav. (See Willinghams, Gustav, assignor.)						
Bernier, Mitchel, assignor of one-half to S. H. Quimby, Minneapolis, Minn. Tricycle	514,206	Feb. 6	392	93, 94	66	927
Bernreuther, Carl, assignor to P. Esselbach, Berlin, Germany. Apparatus for pitching casks	517,515	Apr. 3	163	36	67	33
Bernstein, Benny, New York, N. Y. Propelling device.	511,989	Jan. 2	435	102	66	83
Bernstein, Benny, New York, N. Y. Propelling apparatus.	511,990	Jan. 2	437	103	66	83
Bernstein, Benny, New York, N. Y. Propelling apparatus.	528,138	Oct. 30	2474	598	69	516
Bernstein, Joseph, and M. Kohn, Philadelphia, Pa.; said Kohn assignor to said Bernstein.						
Button and fastening therefor	525,527	Sept. 4	346	85	68	1215
Bernstein, William F., Philadelphia, Pa. Bedstead-fastening.	522,821	July 10	1123	278	68	227
Bernthsen, Heinrich A., Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Red dye	516,584	Mar. 13	1406	.....	66	1730
Bernthsen, Heinrich A., Mannheim, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Red rhodamin dye	516,585	Mar. 13	1407	.....	66	1730
Bernthsen, Heinrich A., Mannheim, and P. Julius, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Substantive blue dye	521,095	June 5	615	.....	67	1308
Bernthsen, Heinrich A., Mannheim, and P. Julius, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Substantive violet dye	521,096	June 5	616	.....	67	1308
Beron, Frank G., assignor of one-half to J. F. Gaffney, Waterbury, Conn. Electric switch.	526,988	Oct. 2	520	127	69	98
Berridge, Thomas, Sturgis, Mich. Nut and bolt lock.	528,320	Oct. 30	2784	672	69	572
Berrin, Leonard B., Moline, Ill. Type-writing machine	513,476	Jan. 30	2902	{ 715 716 }	{ 66 66 }	681
Berry, Charles M., assignor of one-half to B. F. Millard, San Francisco, Cal. Salt and pepper distributor.	518,559	Apr. 17	1940	479	67	386
Berry, David R., Rockaway, N. J. Air-valve.	517,184	Mar. 27	2445	575	66	1959
Berry, Ernest L., and F. Harrison, London, England. Apparatus for periodically completing and interrupting electric currents	514,746	Feb. 13	1292	322	66	1115
Berry, Frederick H., Milwaukee, Wis. Dental engine.	516,465	Mar. 13	1206	290	66	1693
Berry, John J., Indianapolis, Ind. Hinge	520,629	May 29	2931	708	67	1141
Berry, John J., Indianapolis, Ind. Tank flushing-valve	522,397	July 3	390	100	68	77
Berry, John J., Indianapolis, Ind. Tank supply-valve	522,644	July 10	807	201	68	172
Berry, Thomas W. (See Ballard, John, assignor.)						
Berry, Washington, Chicago, Ill. Inserting floats in cakes of soap.	526,068	Sept. 18	1300	301	68	1413
Berry, Wilbur F., Chicago, Ill. Door-hanger	526,961	Oct. 2	477	118	69	90
Berry, William H., Eddystone, Pa. Boiler	519,015	May 1	122	29, 30	67	559
Bersch, Carl, Baltimore, Md. Car-fender	519,562	May 8	1131	272	67	765
Berslin, John E. (See Benson and Berslin.)						
Bersted, Martin, assignor to Chicago Stamping Company, Chicago, Ill. Sheet-metal handle.	522,398	July 3	391	100	68	77
Bertelsen, Rasmus T., Chicago, Ill. Grill.	517,207	Mar. 27	2478	583	66	1966
Berthon, Louis A., assignor to Société Générale des Téléphones, (Réseaux Téléphoniques et Constructions Électriques), Paris, France. Switchboard	529,999	Nov. 27	2625	{ 630 631 }	{ 69 69 }	1177
Bertolini, Giulio, Venice, Italy. Electrical apparatus for firing submarine mines	513,294	Jan. 23	2603	{ 630 631 }	{ 66 66 }	591
Bertram, Julius, Leipsic, Germany. Making vanillin	519,693	May 15	1358	.....	67	819
Bertrand, Joseph, et al. (See Marleau, Evangeliste, assignor.)						
Bertrand, Joseph, assignor to himself and J. Croze, Houghton, Mich. Bandolier	514,808	Feb. 13	1385	348	66	1133
Bertrand, Joseph E., Boston, assignor of one-half to M. Bray, Newton, Mass. Sewing-machine	530,297	Dec. 4	391	99	69	1286
Bertschy, Perry. (See Phillips, Willis E., assignor.)						
Beseler, Charles, Jersey City, N. J. Electric-arc light for magic lanterns.	521,362	June 12	1092	257	67	1410
Besly, Charles H. (See Gardner, Frederick N., assignor.)						
Besly, Irving, Leadville, Colo. Concentrating-machine	519,316	May 8	686	168	67	684
Bess, Albert. (See Clawson, Hiram, assignor.)						
Bessing, Theodore, Los Angeles, Cal. Gymnastic appliance for school-desks	517,788	Apr. 3	625	156	67	121
Besson, Hyppolite, London, England, assignor to Consolidated Manufacturing Company, Philadelphia, Pa. Brush-machine	521,630	June 19	1568	{ 366 367 }	{ 67 67 }	1513
Bessonnet, Charles L., Temple, assignor to Bessonette Cotton Compress Manufacturing Company, Waco, Tex. Cotton-baling machine	530,000	Nov. 27	2627	631	69	1177
Bessonette, Charles L. and W. T., Temple, assignors to Bessonette Cotton Compress Manufacturing Company, Waco, Tex. Cotton-compress	530,001	Nov. 27	2631	{ 632 633 }	{ 69 69 }	1178
Bessonette Cotton Compress Manufacturing Company. (See Bessonnet, Charles L., assignor.)						
Bessonette Cotton Compress Manufacturing Company. (See Bessonette, Charles L. and W. T., assignors.)						
Bessonette Cotton Compress Manufacturing Company. (See Bessonette, William T., assignor.) (Reissue.)						
Bessonette Cotton Compress Manufacturing Company. (See Smith, Hamilton E., assignor.)						
Bessonette Cotton Compress Manufacturing Company. (See Smith and Dare, assignors.)						
Bessonette, William T. (See Bessonette, Charles L. and W. T.)						
Bessonette, William T., Temple, assignor to Bessonette Cotton Compress Manufacturing Company, Waco, Tex. Cotton-press. (Reissue.)	11,422	June 19	1830	436	67	1562
Bessonette, William T., assignor of two-thirds to C. C. Kirkpatrick and W. P. Rylander, Temple, Tex. Lock-hinge	521,429	June 12	1200	284	67	1430
Best, Clearmont V., assignor to A. Leininger and E. M. Schreiner, Canton, Ohio. Figure tricycle	524,413	Aug. 14	792	193	68	822
Best, George W., Morristown, Vt. Automatic plate-lifter.	516,342	Mar. 13	985	234	66	1653
Best, Isaac, Lawrence, Mass. Conductor or funnel for gill-boxes	512,793	Jan. 16	1793	{ 426 427 }	{ 66 66 }	366
Beswick & Kay. (See Kay, Edward, assignor.)						
Betha, Henry, Grand Rapids, Mich. Clothes-line fastener	521,971	June 26	2177	523	67	1645
Betsch, Charles, assignor to A. and H. G. Veith, New York, N. Y. Setting-band for stones	512,003	Jan. 2	607	146	66	116
Bettag, Sebastian, Maria Hill, Ind. Folding frame for ironing-tables	512,794	Jan. 16	1795	427	66	366
Bettegar, John B., and J. Schwartz, Albuquerque, N. Mex. Gold separator and extractor	530,677	Dec. 11	1077	262	69	1425
Bettendorf, Leo A., St. Paul, Minn. Piano-mute	511,747	Jan. 2	13	3	66	5
Bettendorf, William F., Davenport, Iowa. Machine for riveting wheel-tires	512,356	Jan. 9	1032	253	66	207
Bettermann, Reinhold, Johnstown, Pa. Car-axle	531,405	Dec. 25	2342	558	69	1689
Bettinger, John J., assignor to C. L. Cornell, Hamilton, Ohio. Wire-stripper	520,818	June 5	113	25	67	1217
Bettmann, Charles F., Jr., New Albany, Ind. Fan attachment for rocking-chairs	513,477	Jan. 30	2911	716	66	684
Betts, James E., Wilmington, Ohio. Planter	515,318	Feb. 27	2226	551	66	1315
Betts, John C., Philadelphia, Pa. Electric time-alarm	515,189	Feb. 20	1987	495	66	1258
Betts, William H., assignor to E. J. Stoughton, Lincoln, Nebr. Mop-wringer	512,795	Jan. 16	1796	427	66	367

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Bettys, Lafayette L., Oakland, Cal. Attachment for locks	528,269	Oct. 30	2693	649	69	556
Betz, Ernest, Washington, D. C. Hydrocarbon-burner	519,375	May 8	803	196	67	706
Betz, Jacob E., assignor of one-half to J. Kline, Salem, Ohio. Wire-fence ratchet	524,775	Aug. 21	1384	337	68	945
Betz, Joseph W., Brooklyn, N. Y. Felling attachment for sewing-machines	520,292	May 22	2374	576	67	1021
Betz, Joseph W., Brooklyn, N. Y. Safety-guard for cars	522,100	June 26	2397	576	67	1685
Betz, Michael J., Philadelphia, Pa. Attachment for musical instruments	513,295	Jan. 23	2606	631	66	592
Beukema, Cornelius. (See Beukema, Jacob, C., and W.)						
Beukema, Jacob, C., and W., Grand Rapids, Mich. Washing-machine	520,841	June 5	159	35	67	1226
Beukema, William. (See Beukema, Jacob, C., and W.)						
Beury, Joseph L., and J. T. Cressey, Beury, W. Va. Mining-machine	513,296	Jan. 23	2608	632	66	592
Bentelsbacher, Henry, assignor of one-half to C. Hang, Bridgeport, Conn. Apparatus for drying beer-vats	515,570	Feb. 27	2630	653	66	1392
Beutell, Carl, Cincinnati, Ohio. Peeling-machine for vegetables	515,394	Feb. 27	2352	584	66	1339
Bevan, Edward J. (See Cross and Bevan.)						
Bevan, Edward J. (See Cross, Bevan, and Beadle.)						
Bevan, James. (See Humphrey, Walter B., assignor.)						
Bevan, Thomas, New York, N. Y. Rope-clamp for pulley-lines	518,132	Apr. 10	1188	298	67	233
Bever, Albert. (See Leonard and Bever.)						
Bever, Alexander, Spokane, Wash. Parasol or umbrella cabinet	518,390	Apr. 17	1662	410	67	336
Beveridge, Winfield E., Baltimore, Md. Steam-cooker	522,399	July 3	392	101	68	77
Bevin Brothers Manufacturing Company. (See Wells, John C., assignor.)						
Bevin, Alfred, et al. (See Smith, Daniel W., assignor.)						
Bevitt, Edwin D., Cincinnati, Ohio. Sheet-metal roofing	518,089	Apr. 10	1121	283 284	67	220
Beyer, Anton H., London, England. Musical instrument	518,219	Apr. 17	1357	333 339	67	281
Beyroux, Augustus, New Philadelphia, Ohio. Furnace-bottom	524,238	Aug. 7	456	107	68	745
Beyroux, Gabriel. (See Landry and Beyroux.)						
Bezer, Henry, New Rochelle, N. Y. Razor-strop	528,650	Nov. 6	234	58	69	688
Blart, Victor, Stuttgart, Germany. Cover for fruit-jars	531,253	Dec. 18	2071	495	69	1621
Bibbins, Charles D., et al. (See Davis, Clifton H., assignor.)						
Bibby, James. (See Bibby, Joseph and J.)						
Bibby, Joseph and J., Liverpool, England. Manufacture of printing-ink	519,032	May 1	153	284	67	565
Bichet, Alphonse, and H. O'Neill, Florence, Kans. Hose-coupling	527,764	Oct. 23	1790	431	69	378
Bickell, Elmer J., Jersey Shore, Pa. Nut-lock	523,878	July 31	2397	740	68	616
Bickerstaff, Samuel N., assignor to Henderson-Ames Company, Kalamazoo, Mich. Sword-belt	523,828	July 31	2881	716	68	599
Bickford, Charles E. (See Andersen, Niels M., assignor.)						
Bickford & Hoffman Company. (See Galloway, Robert, assignor.)						
Bickmeier, Charles, Bellaire, Ohio. Car-coupling	518,910	Apr. 24	2549	630	67	511
Bicknell, Emery O., Boston, Mass. Boot or shoe polishing machine	526,361	Sept. 18	1807	428	68	1509
Bicknell, Emery O., Boston, Mass. Boot or shoe polishing machine	526,362	Sept. 18	1810	428 429	68	1509
Biddle, John W., Fremont, Ohio. Basin-clamp	524,477	Aug. 14	886	219	68	841
Biddle, William, Brooklyn, assignor to American Railway Electric Light Company, New York, N. Y. Mounting dynamos on car-trucks	523,453	July 24	2219	557	68	461
Biddle, William, Brooklyn, assignor to American Railway Electric Light Company, New York, N. Y. Means for driving dynamos from car-axles	526,432	Sept. 25	1962	468	68	1550
Biddle, William, and P. Kennedy, Brooklyn, assignors to American Railway Electric Light Company, New York, N. Y. Connecting dynamos to car-axles	517,997	Apr. 10	975	242	67	196
Biddle, William, and P. Kennedy, Brooklyn, assignors to American Railway Electric Light Company, New York, N. Y. Electric car-lighting system	517,998	Apr. 10	976	243	67	196
Biddles, Walter, Leicester, England. Gear-case	531,254	Dec. 18	2073	496	69	1622
Bidelman, Robert M., Adrian, Mich. Apparatus for the manufacture of gas	518,582	Apr. 24	1988	491 492	67	409
Biden, Lee. (See Kindig, Samuel C., assignor.)						
Bidwell, Benson, Philadelphia, Pa., assignor of one-half to C. F. Bidwell, Indianapolis, Ind. Electrical railway	517,258	Mar. 27	2559	600	66	1981
Bidwell, Charles F. (See Bidwell, Benson, assignor.)						
Bidwell, Jason A., Cleveland, Ohio. Device for separating turnings from finished screws in screw-making machines	519,563	May 8	1134	272 273	67	765
Bidwell, Joel E., Kalamazoo, Mich. Machine for milling and tapping radiator-loops	511,872	Jan. 2	203	51, 52	66	42
Biedinger, Theodore, and T. J. Kane, New York, N. Y. Alarm-clock	529,103	Nov. 13	1045	252	69	856
Bien, Joseph, San Francisco, Cal. Can-opener	529,849	Nov. 27	2355	562	69	1125
Bienkowski, Apolinary, San Francisco, Cal. Power-wheel	519,226	May 1	516	125	67	637
Bienz, Joseph W., Rockford, Ohio. Tile-truck	527,653	Oct. 16	1604	387	69	326
Bierce, Will W. (See Thomlinson, Arthur, assignor.)						
Bierce, Will W., Montgomery, Ala. Steam hydraulic compress	523,924	July 31	3052	762	68	631
Bierce, Will W., and A. Thomlinson, Montgomery, Ala. Hydraulic compress	523,925	July 31	3053	762	68	631
Bierer, Joseph, and C. De la Harpe, Basle, Switzerland, assignors to L. Durand, Huguenin & Co., Basle, Switzerland, St. Fons, France, and Hünningen, Germany. Blue dye	531,148	Dec. 18	1877	69	1587	
Bierley, Henry A., Lexington, Ky. Bottle	523,956	July 31	3118	776	68	644
Biermann, William, Cincinnati, Ohio. Stovepipe-thimble	528,139	Oct. 30	2475	598	69	516
Biette, Henry C., assignor of one-half to A. Blackburn, trustee, and F. A. Ramage, Toronto, Canada. Autographic register	521,081	June 5	585	137 138	67	1302
Bigelow, Melvin F., Alden, Iowa. Bridle-bit	529,472	Nov. 20	1722	410	69	999
Bigelow, Richard H. (See Brinkman, Sebastian G., assignor.)						
Biggs, Aaron, Sr., Cuba, Ohio. Pliers for building wire fences	511,991	Jan. 2	438	103	66	84
Biggs, Arthur V., Franklin, Ky. Check-row attachment for corn-planters	529,104	Nov. 13	1047	252	69	856
Biggs, Charles H., Detroit, Mich. Self-mousing hook	520,721	May 29	3095	749	67	1171
Bignall, Burnett B., Elgin, Ill. Device for adjusting flash-plates to ventilating-pipes and different-pitched roofs	530,574	Dec. 11	897	221	69	1395
Bildt, Carl W., Worcester, Mass. Annealing apparatus	515,813	Mar. 6	137	34	66	1478
Bildt, Carl W., Worcester, Mass. Annealing and hardening steel rods or wire	517,020	Mar. 27	2150	509	66	1903
Bildt, Carl W., Worcester, Mass. Apparatus for treating wire rods	526,433	Sept. 25	1964	468	68	1550
Bill, David K., Hillsborough, Oreg. Horse collar and hame	517,021	Mar. 27	2151	510	66	1903
Bill, Jeremiah C., Willimantic, Conn. Let-off mechanism for looms	513,667	Jan. 30	3559	876	66	805
Billiter, Julius, Zurich, Switzerland. Logarithmic calculator	513,172	Jan. 23	2405	581	66	552
Billings, Kaspar, assignor of one-tenth to H. A. Schell, Philadelphia, Pa. Rotary engine	524,882	Aug. 21	1502	382	68	976
Billings, Andrew W., Brooklyn, N. Y. Apparatus for making malt liquors	515,319	Feb. 27	2229	552	66	1316
Billings, Charles E., Hartford, Conn. Caliper-gage	517,202	Mar. 27	2480	584	66	1966
Billings, Charles E., Hartford, Conn. Hand-rise	535,311	Aug. 28	2304	560	63	1128
Billings, George W., assignor of one-half to F. M. Potter, Cleveland, Ohio. Vapor-burner	519,330	May 15	1576	385 386	67	860

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Billings, George W., assignor to T. Friant, T. S. White, T. M. Peck, F. Ranville, D. McCoy, M. Bundy, J. J. Tacker, and L. A. Giddings, Grand Rapids, Mich. Vaporizer for gasoline stoves	523,302	July 17	1952	{ 491 492 }	68	398
Billings, Louis C., assignor to L. C. Billings Company, Milford, N. H. Chicken-brooder	531,255	Dec. 18	2074	496	69	1622
Billman, Jesse F., Litchfield, Ill. Sewing-machine fan	519,227	May 1	517	125	67	638
Billman, Obed C., Smithville, Ohio. Car-coupling	513,868	Jan. 30	3561	876	66	806
Billups, George C., Norfolk, Va. Envelope	516,045	Mar. 6	513	119	66	1548
Billups, Jonathan E., Cardiff, England. Rail-bending press	512,857	Jan. 16	1916	452	66	389
Billups, Jonathan E., Cardiff, England. Point and switch	514,537	Feb. 13	935	236	66	1047
Billwiller, Charles J., Brooklyn, N. Y. Display-envelope	512,533	Jan. 9	1340	323	66	265
Bilstad, Ole, et al. (See Lilleberg, Charles L., assignor.)						
Binder, Gottlob, Philadelphia, Pa. Gage-cock	517,426	Apr. 3	7	2	67	4
Binder, Gottlob, Philadelphia, Pa. Lubricator	525,089	Aug. 28	1948	476	68	1062
Binder, Gottlob, Philadelphia, Pa. Lubricator	529,473	Nov. 20	1723	410	69	999
Bindley, Josiah. (See Woolfe, George P., assignor.) (Reissue.)						
Bing, James H., et al. (See Collett, Herbert E., assignor.)						
Bingeman, Henry W., et al. (See Harris, Henry, assignor.)						
Binger, Hermann H., La Belle, Mo. Clutch	512,148	Jan. 2	693	167	66	133
Bingham, Abial M., Jesup, Iowa. Combined churn and butter-worker	525,580	Sept. 4	439	105	68	1233
Bingham, Allen R., assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Locking-box	524,303	Aug. 14	571	136	68	784
Bingham, George C. (See Wood, Frederick C., assignor.)						
Bingham, William H. (See Dyer and Bingham.)						
Bingham, William F., and D. R. Jones, Jr., Dubuque, Iowa. Trunk and display tray	530,002	Nov. 27	2637	633	69	1180
Binner, Charles S., et al. (See Emery, Fred B., assignor.)						
Binnig, Jacob, Hoboken, N. J., assignor to Aeolian Organ and Music Company, New York, N. Y. Organ	516,181	Mar. 13	726	170	66	1604
Binns, Leedham, Philadelphia, Pa. Woven chenille fabric	514,809	Feb. 13	1387	{ 348 349 }	66	1133
Binns, William H., assignor to Monarch Cycle Company, Chicago, Ill. Brake mechanism for bicycles	520,017	May 15	1877	459	67	915
Birch, John T., Pittsburg, Pa. Rheostat	514,301	Feb. 6	567	142	66	960
Birch, Phillip, Denver, Colo. Combined knife-sharpener and hone-stone holder	521,755	June 19	1792	425	67	1555
Birch, Thomas, Leeds, England. Wheel-rim for pneumatic tires	528,411	Oct. 30	2941	711	69	600
Birch, William, Manchester, England. Apparatus for separating solids from sludge	514,300	Feb. 6	565	142	66	959
Bird, Charles S., Walpole, Mass. Method of and apparatus for making separable paper sheets	514,059	Feb. 6	130	31	66	878
Bird, George, London, England. Planing-machine	513,869	Jan. 30	3562	{ 876 877 }	66	806
Bird, James, Tarrytown, N. Y. Car-coupling	528,460	Oct. 30	3031	735	69	616
Bird, Thomas R., Derby, England. Knob attachment	516,909	Mar. 20	1952	460	66	1849
Birdsall, David, Jersey City, N. J. Steam-generator	521,329	June 12	1022	{ 240 241 }	67	1395
Birdsall, Zephaniah, San Francisco, Cal. Horseshoe	516,046	Mar. 6	514	119	66	1548
Birkery, Cornelius, assignor to Birkery Manufacturing Company, Hartford, Conn. Valve	515,703	Feb. 27	2847	709	66	1435
Birkery, Cornelius, assignor to Birkery Manufacturing Company, Hartford, Conn. Valve	530,633	Dec. 11	996	245	69	1413
Birkery Manufacturing Company. (See Birkery, Cornelius, assignor.)						
Birkinshaw, William K., Qarndon, England. Pick or similar tool	527,829	Oct. 23	1893	455	69	396
Birbanm, Theodore B., London, England. Stopper or cover for the mouths of bottles	524,159	Ang. 7	333	79	68	722
Birner, Joseph, and H. Messing, Elizabeth, N. J. Air-compressor	520,405	May 29	2562	{ 619 620 }	67	1073
Birrer, John B., assignor to C. W. Chase, Newton, Kans. Musical instrument	518,775	Apr. 24	2325	577	67	469
Birt, John S., Arlington, Ind., assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Pan-making machine	525,383	Sept. 4	110	29	68	1170
Birtz, Norbert, assignor of one-half to W. Hewson, Montreal, Canada. Device for preventing horses from running away	512,149	Jan. 2	694	163	66	133
Bisanz, Charles, Red Lodge, Montana. Bootjack	530,080	Dec. 4	7	3	69	1216
Bisbee, George W., assignor of one-half to M. F. Prouty, Chicago, Ill. Drying and cooling apparatus for grain, &c.	515,513	Feb. 27	2532	{ 627 628 }	66	1372
Bisceglia, Joseph A., Waneta, Canada. Means for raising sunken vessels	526,800	Oct. 2	214	51, 52	69	41
Bischoff, Frank R., assignor to S. C. Bone and J. D. O'Connor, Morris, Ind. Magazine tack-hammer	529,237	Nov. 13	1282	308	69	898
Bischoff, Ferdinand F., Milwaukee, Wis. Egg-tray	518,341	Apr. 17	1562	388	67	318
Bishop, Alfred H., assignor to Snell Cycle Fittings Company, Toledo, Ohio. Bicycle	521,363	June 12	1094	257	67	1411
Bishop & Babcock Company. (See Babcock, William A., assignor.)						
Bishop & Babcock Company. (See Champ, Joseph H., assignor.)						
Bishop, Edward P., Jr., Birmingham, Ala. Signal apparatus for air-brakes	531,584	Dec. 25	2653	636	69	1749
Bishop, Elihu S., Milton-on-the-Hudson, N. Y. Stand attachment for bicycles	513,870	Jan. 30	3566	877	66	806
Bishop, Francis A., San Francisco, Cal. Ship's log	512,269	Jan. 9	890	{ 214 215 }	66	180
Bishop, Frank, Ogden, Utah Ter. Ore-crusher	519,228	May 1	518	{ 125 126 }	67	638
Bishop, Harriet. (See Horton, David D., assignor.)						
Bishop, James C., assignor of two-thirds to S. H. Ussery and R. L. Harrell, Marble Falls, Tex. Car-coupling	530,081	Dec. 4	8	3	69	1216
Bishop, Mary F., Bridgeport, Conn. Device for heating water over alcohol-lamps	514,436	Feb. 13	758	194	66	1014
Bishop, Mary F., Bridgeport, Conn. Hot-water heating device	514,437	Feb. 13	759	194	66	1014
Bishop, Noah L., Wassac, assignor to New York Condensed Milk Company, New York, N. Y. Can soldering and testing plant	531,501	Dec. 25	2518	{ 601 603 }	69	1722
Bishopricks, Nicholas J., Brooklyn, N. Y. Combined shipping-tag, envelope, and receipt	515,275	Feb. 20	2135	531	66	1286
Bisler, Gustav A., Philadelphia, Pa. Apparatus for playing duplicate whist	525,941	Sept. 11	1077	245	68	1359
Bissell, Titus L., Charleston, S. C. Bicycle safeguard and support	531,016	Dec. 13	1636	388	69	1543
Bittenbender, George H., Plymouth, Pa. Coal-drill	519,466	May 8	957	232	67	734
Bittinger, Hans, Darnstadt, Germany. Transporter for flat sieves	512,796	Jan. 16	1797	427	66	367
Bittle, James F., Brunswick, Md. Window screen	527,401	Oct. 16	1192	293	69	250
Bivin, Henry, Auburn, Ill. Monkey-wrench	515,645	Feb. 27	2744	684	66	1415
Björk, Per J., Brooklyn, N. Y. Spike-puller	524,082	Aug. 7	191	43	68	696
Bjurlund, Johan E., New York, N. Y. Sash-holder	516,173	Mar. 6	706	166	66	1585
Blachon, Pétrus, and E. Mimard, St. Etienne, France. Magazine-pistol	520,666	May 29	2988	{ 722 723 }	67	1150
Black, Arthur M., assignor of one-half to A. S. Baxter, Providence, R. I. Car-gate	526,214	Sept. 18	1556	365	68	1459
Black, Charles W., and B. J. Chapman, assignors of one-third to F. M. Boeckling, Michigan City, Ind. Fishing-line sinker	531,090	Dec. 18	1769	422	69	1567

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Black, Christian, Green Cove Springs, Fla. Wrench	516,182	Mar. 13	729	171	66	1604
Black & Clawson Company. (See Black, Frank X., assignor.)						
Black, Crosby M. (See Chambers, Richard B., assignor.)						
Black, David R., and S. A. Hill, Duluth, Minn. Mold for making washers and tacks for plumbers' use	527,931	Oct. 23	2087	500	69	431
Black, David W., Butler, Pa. Sacker-rod elevator and wrench	512,933	Jan. 16	2046	485	66	413
Black, Fergus, Uxbridge, Canada. Air-pump	514,900	Feb. 20	1542	386	66	1177
Black, Frank X., assignor to Black & Clawson Company, Hamilton, Ohio. Paper-machine drier	523,968	Aug. 7	3	1	68	663
Black, Henry C. (See Johnson and Black.)						
Black, John M., London, England. Punch and fare-register	517,944	Apr. 10	861	217	67	179
Black, John M., London, England. Ticket-punch	518,518	Apr. 17	1877	465	67	375
Black, Joseph, San Francisco, Cal. Can-testing machine	531,616	Dec. 25	2708	649	69	1760
Black, Robert. (See Havey and Black.)						
Black, Robert, and C. M. Havey, New York, N. Y. Signal for railways	529,889	Nov. 27	2416	580	69	1136
Black, Stephen C., West Chester, Pa. Window or door button	525,251	Aug. 28	2213	539	69	1109
Black, Stephen S., Pasadena, Cal. Lawn-sprinkler	518,560	Apr. 17	1941	450	67	386
Black, William, Kansas City, Mo. Tension device for paper-rolls	520,574	June 5	216	49	67	1237
Black, William J. (See Hawley and Black.)						
Black, William S., Baltimore, Md. Hoisting-crane	515,276	Feb. 20	2136	531	66	1287
Blackall, Robert C. (See Shephard, John H., assignor.)						
Blackall, William. (See Alsop and Blackall.)						
Blackburn, Andrew, trustee, <i>et al.</i> (See Biette, Henry C., assignor.)						
Blackburn, Arthur W. (See Blackburn, William and A. W.)						
Blackburn, Christopher A. (See Perkins, Franklin J., assignor.)						
Blackburn, David L., Reidsville, N. C. Stall for cows	516,466	Mar. 13	1209	290	66	1694
Blackburn, Joseph S., Salem, Ohio. Hose-coupling	511,992	Jan. 2	439	103	66	84
Blackburn, Thomas, assignor of one-half to J. Lancaster, Dover, N. H. Warp-measuring machine	515,139	Feb. 20	1907	479	66	1244
Blackburn, William and A. W., Cleckheaton, England. Wool-washing machine	519,625	May 8	1246	299	67	785
Blackford, Atwell J., assignor of one-half to Durand Manufacturing Company, Medina, Ohio. Hydrocarbon-burner	518,305	Apr. 17	1492	374	67	306
Blackford, James. (See Lawrence and Blackford.)						
Blackie, Alexander, and C. W. Shartle, assignors to Middletown Machine Company, Middletown, Ohio. Twine-balling machine	516,625	Mar. 13	1476	350 351 352	66	1744
Blackman, Charles H. (See Blackman, James H., Jr., assignor.)						
Blackman, Elmer E., Raymond, Nebr. Combined shaft-support and antirattler	527,475	Oct. 16	1320	322	69	275
Blackman, Henry, New York, N. Y. Apparatus for disintegrating fibers and recovering sulfurous gases employed therein	530,634	Dec. 11	997	245	69	1413
Blackman, Henry, New York, N. Y. Process of and apparatus for making paper-pulp	530,635	Dec. 11	1003	246	69	1413
Blackman, Jacob. (See Boford and Blackman.)						
Blackman, James H., Jr., assignor of one-half to C. H. Blackman, Hartsville, Ill. Drag-saw	520,387	May 22	2531	612 538 539 540	67	1052
Blackman, William I., Columbus, Miss. Book-sewing machine	531,357	Dec. 25	2258	539 540	69	1672
Blackmore, Henry S., Mount Vernon, N. Y. Making alkali salts	513,001	Jan. 16	2152		66	433
Blackmore, Henry S., Mount Vernon, N. Y. Filter	520,293	May 22	2375	576	67	1021
Blackmore, James E., Newark, N. J. Motor-opticon	520,030	May 22	1907	467	67	936
Blackmore, James E., Newark, N. J. Camera	528,140	Oct. 30	2476	599 600	69	517
Blackmore, James E., Newark, N. J., assignor to V. H. Emerson. Camera-shutter	525,439	Sept. 4	208	51, 52	68	1189
Blackmore, Joseph J., Newark, N. J., assignor to J. L. Mott Iron Works, New York, N. Y. Water-heating apparatus	512,430	Jan. 9	1172	285	66	233
Blackmore, Lawrence R., Newark, N. J. Steam or hot-water heating-boiler	531,298	Dec. 25	2156	516 517	69	1653
Blackwell, Alfred, assignor of one-half to J. S. Taylor, Birmingham, England. Means for adjusting the driving-chains of safety-bicycles, tricycles, or other velocipedes	512,357	Jan. 9	1035	253	66	208
Blackwell, Francis O., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric-railway-car truck	522,189	July 3	5	2	68	3
Blackwell, Josiah L., New York, N. Y., assignor to Thomson-Houston Electric Company, of Connecticut. Contact device for overhead electric railways	529,354	Nov. 20	1484	357	69	958
Blackwell, Thomas L., Cordele, Ga. Rotary engine	526,801	Oct. 2	215	52	69	41
Blackwood, James F. (See Roberts, Blackwood, and Cahill.)						
Blades, Leonard J., Chicago, Ill. Ticket-holder	529,696	Nov. 27	2093	501	69	1077
Bladon, Thomas E. (See White, William, assignor.)						
Blagen, Niels J. (See Shogren, Henry, assignor.)						
Blaine, George E., Alliance, Ohio. Window-screen	518,660	Apr. 24	2116	529	67	432
Blaine, George E., assignor of two-thirds to R. S. Kayler, F. Transue, and C. W. Roepper, Alliance, Ohio. Ditching and tile-laying machine	516,750	Mar. 20	1702	403	66	1801
Blair Camera Company. (See Eddy, Charles W., assignor.)						
Blair Camera Company. (See Lewis, William H., assignor.)						
Blair, Henry W., <i>et al.</i> (See Duchemin, William, assignor.)						
Blair, John A., Philadelphia, Pa. Valve	526,176	Sept. 18	1431	346	68	1445
Blair, John A., Philadelphia, Pa. Valve	526,177	Sept. 18	1432	346	68	1445
Blair, Maud, Sandy Lake, Pa. Holder for griddle-greasers	515,277	Feb. 20	2138	531	66	1287
Blair, Sidney O. (See Bradfield, Thomas W., assignor.)						
Blais, Charles. (See Lepage, Charles, assignor.)						
Blaisdell, Frederick E., assignor of one-third to E. Z. Taylor, Philadelphia, Pa. Bottle	525,128	Aug. 28	2011	491	68	1073
Blaisdell, Frederick E., assignor of one-third to E. Z. Taylor, Philadelphia, Pa. Bottle	525,129	Aug. 28	2012	492	68	1073
Blaisdell, Henrietta C. (See Blaisdell, John H., assignor.)						
Blaisdell, John H., assignor to H. C. Blaisdell, Worcester, Mass. Inside molding-machine	515,313	Feb. 20	2205	546 547	66	1300
Blaisdell, William A., Worcester, Mass. Pipe-wrench	531,299	Dec. 25	2161	517	69	1654
Blake, Burdine, London, Ohio. Horse-detacher	521,581	June 19	1482	347	67	1497
Blake, Burdine, London, Ohio. Railway-frog	524,457	Aug. 14	859	210	68	836
Blake, Burdine, London, Ohio. Recoil-check for firearms	524,458	Aug. 14	859	211	68	836
Blake, Charles C., Boston, Mass., assignor to American Bell Telephone Company, of Massachusetts. Coin-controlled telephone apparatus	526,608	Sept. 25	2234	533	68	1600
Blake, Charles M., <i>et al.</i> (See Howe, Patrick, assignor.)						
Blake, Dennis B. D., Denver, Colo. Station-indicator	530,821	Dec. 11	1302	314 315	69	1468
Blake, Edward A., Chicago, Ill. Device for operating reciprocating beds of printing-presses	513,554	Jan. 30	3050	751	66	710

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Blake, Fred H., Worcester, Mass. Time-lock.....	526,555	Sept. 25	2146	514	68	1583
Blake, George H., administrator. (See Blake and Lacey.)						
Blake, Harry, Haverhill, assignor to H. H. Winchester, Westfield, Mass. Feed-water heater.	523,616	July 24	2490	625	68	511
Blake, James, and E. F. Begiebing, Union, N. J. Hose bridge and tower	515,278	Feb. 20	2139	532	66	1287
Blake, James, and E. F. Begiebing, Union Hill, N. J. Hose bridge and tower	531,091	Dec. 18	1770	422	69	1567
Blake, John F., New Haven, Conn. Electrical contact mechanism	518,133	Apr. 10	1190	298	67	233
Blake, John F., New Haven, Conn. Electrical contact mechanism	518,481	Apr. 17	1813	449	67	364
Blake, John F., New Haven, Conn. Electrical-contact mechanism	520,351	May 22	2476	600	67	1040
Blake, John F., New Haven, Conn. Electric pump-motor	520,722	May 29	3096	749	67	1171
Blake, John F., New Haven, Conn. Electrical contact mechanism	530,004	Nov. 27	2640	634	69	1180
Blake, John L., Waynesborough, Va. Running-gear for wagons.....	530,003	Nov. 27	2638	633 634	69	1180
Blake, John M., Eldred, Pa. Combined potato planter and cultivator	525,068	Aug. 28	1909	467	68	1056
Blake, John W., deceased, (G. H. Blake, administrator,) and F. H. Lacey, Kansas City, Mo. Elevator.....	516,343	Mar. 13	986	234	66	1653
Blake, Lucien I., Lawrence, Kans. Snbmarine signaling	524,239	Aug. 7	457	107	68	745
Blake, Lucien I., Lawrence, Kans. Submarine signaling	526,609	Sept. 25	2236	534	68	1600
Blake, Robie, Cornish, Me. Nail-extractor	526,678	Oct. 2	14	4	69	5
Blake, Solomon E., Indianapolis, Ind. Shoestring-fastener.....	520,555	May 29	2812	679	67	1119
Blake, William P., New Haven, Conn. Furnace for roasting ores.....	513,754	Jan. 30	3383	834 835	66	770
Blake, William P., New Haven, Conn. Furnace for roasting ores	513,755	Jan. 30	3385	835	66	770
Blakeley, John D., assignor to J. W. Fluke, A. C. Neel, and F. B. Losee, Toledo, Ohio. Apparatus for manufacturing gas.....	512,270	Jan. 9	893	216	66	181
Blakely, Charles A. (See Blakely, George C. and C. A.)						
Blakely, George C. and C. A., Plano, Ill. Baling-press	513,553	Jan. 30	3048	751	66	709
Blakeman, William N., Jr., New York, N. Y. Preserving or renovating butter	520,513	May 29	2740		67	1105
Blakemore, Benjamin A., Staunton, Va. Checking and unchecking device	530,005	Nov. 27	2641	634	69	1181
Blakeney, James, Springfield, Ohio. Cupola-furnace	518,482	Apr. 17	1814	449	67	364
Blaker, Alfred. (See Marlin, James T., assignor.)						
Blakeslee, George F., Duquoin, Ill. Coal-screen	528,526	Nov. 6	9	4	69	648
Blakeslee, Wallace A., assignor to Bridgeport Brass Company, Bridgeport, Conn. Lock for bicycle-lanterns.....	530,384	Dec. 4	546	135	69	1315
Blakesley, Gilbert H., Bristol, Conn. Electrical conductor	523,160	July 17	1705	428	68	332
Blakey, John, Leeds, England. Lasting-machine	519,755	May 15	1450	350 351	67	836
Blakey, John, Leeds, England. Staple-driving implement.....	525,581	Sept. 4	440	105	68	1233
Blakistone, Georg, Baltimore, Md. Wheel fender or gnard for cars.	513,701	Jan. 30	3303	813	66	755
Blakistone, Georg, Baltimore, Md. Wheel-fender for cars	513,702	Jan. 30	3304	814	66	755
Blakistone, Georg, Baltimore, Md. Safety fender or trap	513,703	Jan. 30	3305	814	66	756
Blakley, Cortland J., Luzerne, Mich. Milking-stool	526,916	Oct. 2	418	104	69	78
Blanchard, Edwin E., Troy, N. Y. Puzzle apparatus	514,901	Feb. 20	1543	366	66	1177
Blanchard, George H. (See Petrie, Enos B., assignor.)						
Blanchard, Helen A., New York, N. Y. Surgical needle.....	527,263	Oct. 9	957	232	69	193
Blanchard, Jerome B., Highlands, Colo. Aerial vessel	514,408	Feb. 6	718	182 183	66	989
Blanchard, Silas W., and W. A. Lambie, Pittsburg, assignors of one-third to G. W. Porter, Allegheny, Pa. Elevator-hatch	519,299	May 1	644	157	67	662
Blanchard, Thomas A., East Randolph, N. Y. Combined sash-lift and ventilator.....	524,699	Aug. 21	1254	309	68	922
Blanchard, William M., assignor to Quincy Storm Apron Company, Quincy, Ill. Elastic storm-apron for vehicles	519,564	May 8	1137	273	67	766
Blanchon, André, and A. Allegret, Lyons, France. Printing indigo	522,042	June 26	2304		67	1667
Bland, Henry, Leichardt, near Sydney, New South Wales. Gear for driving small machines.	512,858	Jan. 16	1917	453	66	390
Bland, William B., Maquon, Ill. Cow-milking machine	512,939	Jan. 16	2047	485 486	66	414
Bland, William B., Maquon, Ill. Cow-milking machine	526,215	Sept. 18	1557	365 366	68	1459
Blanding, Francis, Putnam, Conn. Boat-detaching apparatus.	526,989	Oct. 2	521	127	69	98
Blandy, Alfred A., London, England. Process of and composition for manufacturing substitutes for india-rubber, &c	522,312	July 3	235		68	47
Blaney, Elbridge G., Jr., Swampscott, assignor to A. H. Breed, Lynn, Mass. Cutter-head for woodworking-machines	527,583	Oct. 16	1492	363	69	305
Blank, Edward F., Pottsville, Pa. Washing-machine	513,297	Jan. 23	2611	632	66	593
Blank, Max, Grand Rapids, Mich. Cash-registering apparatus.	526,768	Oct. 2	165	39	69	32
Blank, William A., La Porté, Ind. Windmill.	517,374	Mar. 27	2749	646 647	66	2019
Blanke, Aloysius V. (See Siekman, Anthony C., assignor.)						
Blankley, George, Philadelphia, Pa. Chimney attachment or cowl	514,252	Feb. 6	483	118	66	943
Blankley, Joseph. (See Hunter and Blankley.)						
Blankner, William, assignor of one-half to C. M. Coats and C. E. Corlett, Aurora, Ill. Sad-iron.	524,304	Aug. 14	571	136	68	784
Blatchley, Charles, Binghamton, N. Y. Double-tenon anger	528,527	Nov. 6	10	4	69	648
Blatchly, Ambrose, San Francisco, Cal. Drier	519,694	May 15	1358	328 329	67	820
Blay, Charles W. (See Vankirk and Blay.)						
Blaye, Jules P. A., Paris, France. Reducing ramie or like material to fiber.....	523,509	July 24	2324		68	479
Bleach, Theodore W., Kearney, Mo., assignor of one-half to V. C. Whipple, Huntington, N. Y. Pump	512,534	Jan. 9	1341	323	66	265
Bleakley, Harry. (See Smith, Benjamin F., assignor.)						
Blease, Alma F., Hammond, Ind. Vehicle dashboard and fender	520,388	May 22	2532	612	67	1052
Bledsoe, Nathaniel H., assignor of one-half to G. A. Rabus, Fort Wayne, Ind. Identifying-check	513,978	Feb. 6	9	2	66	856
Blessing, James H., Albany, N. Y. Apparatus for recovering lubricant from exhaust-steam	514,438	Feb. 13	760	195	66	1014
Blessing, James H., Albany, N. Y. Separator for removing lubricant from exhaust-steam	514,439	Feb. 13	761	195	66	1014
Blessing, James H., Albany, N. Y. Apparatus for eliminating lubricant from exhaust-steam	514,440	Feb. 13	763	196	66	1015
Blessing, James H., and T. H. Murray, Albany, N. Y. Tap for drawing liquids from casks, barrels, &c.	529,355	Nov. 20	1485	358	69	958
Blessing, Louis, Jackson, Mich. Strawboard-lining machine	530,502	Dec. 11	758	186	69	1371
Blinn, Joseph S., New Haven, Conn. Stopper for mucilage-bottles	513,608	Jan. 30	3140	771	66	726
Bliss, Aaron T. (See Dunham, Harry E., assignor.)						
Bliss, George H., Pittsfield, Mass. Reflector and shade for lamps.....	529,105	Nov. 13	1049	253	69	857
Bliss, Henry H., Washington, D. C. Cable-carrier.....	516,698	Mar. 20	1606	383	66	1784
Bliss, Henry H., assignor to H. S. Martin, Washington, D. C. Cork-extractor.....	515,646	Feb. 27	2745	684	66	1415

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Bliss, James F., Boston, Mass. Boat-propelling device.....	511,748	Jan. 2	15	3	66	6
Bliss, John W., and J. C. Erwin, Elkhart, Ind. Machine for waxing or coating paper.....	513,030	Jan. 16	2189	522	66	427
Bliss, Louis D., assignor to C. W. Needham, Washington, D. C. Telegraph-key.....	530,082	Dec. 4	9	3	69	1216
Bliss, Samuel B., Riverside, Cal. Raisin-seeder.....	513,704	Jan. 30	3307	815	66	759
Bliss, William L., Brooklyn, N. Y. Self-adjusting brush for dynamo-electric machines.....	525,836	Sept. 11	908	202	68	1328
Bloch & Co., E. (See Foucault, Henri, assignor.)						
Bloch, Jacob, assignor to Wolf Electrical Promoting Company, Cincinnati, Ohio. Cloth-cutting machine.....	528,220	Oct. 30	2613	630	69	541
Bloch, Marc. (See Hahlweg, Carl, assignor.)						
Bloch, Francis L., Sidney, Ill. Corn-planter.....	527,932	Oct. 23	2000	500	69	432
Bloch, Louis, New York, N. Y. Refrigerating-machine.....	517,154	Mar. 27	2383	563	66	1694
Bloch, Louis, New York, N. Y. Refrigerating-machine.....	518,541	Apr. 17	1913	473	67	381
Bloch, Louis, New York, N. Y. Apparatus for preparing water for the manufacture of ice.....	529,356	Nov. 20	1487	358	69	958
Blodget, Charles W., New York, N. Y. Apparatus for simultaneously scrubbing, purifying, and condensing gas.....	516,344	Mar. 13	987	234	66	1654
Blodget, Hugh A. (See Cox, Cary S., assignor.)						
Bloemendal, Charles, Berlin, Germany. Producing hydraulic mortar.....	519,599	May 8	1198	289	67	777
Bloeser, Jacob. (See Hunt, Edward P., assignor.)						
Blomén, Jonas E., Stanhope, N. J., assignor, by mesne assignments, to Joveite Manufacturing Company, of Virginia. High-power explosive.....	530,063	Nov. 27	2747	.....	69	1199
Blomgren, Andrew O., Granite Falls, Minn. Envelope-opener.....	530,920	Dec. 18	1468	348	69	1314
Blomgren, Andrew O., Granite Falls, Minn. Envelope-opener.....	531,017	Dec. 18	1637	388	69	1543
Blomshield, John H., West Bay City, Mich. Foot-guard.....	520,031	May 22	1909	467	67	936
Blood, Charles N., Anamosa, Iowa. Stump-extractor.....	523,100	July 17	1583	397	68	332
Blood, Charles N., Anamosa, Iowa. Rope-grip.....	525,481	Sept. 4	274	67	68	1202
Blood, Joel S., Houghton, Wash. Washing-machine.....	516,428	Mar. 13	1138	271	66	1681
Blood, John B., Lynn, assignor to General Electric Company, Boston, Mass. Controller for electric motors.....	522,581	July 10	700	178 179	68	153
Blood, Maurice E., assignor to Kalamazoo Cycle Company, Kalamazoo, Mich. Attachment for bicycles.....	521,132	June 5	674	159	67	1319
Bloom, Charles J., Burlington Junction, Mo. Rotary oven.....	528,069	Oct. 23	2339	565	69	477
Bloom, Louis, Vicksburg, Miss. Suspensers.....	527,634	Oct. 16	1605	387	69	326
Bloomberg, Casper, New York, N. Y. Suspender cast-off.....	520,723	May 29	3097	750	67	1171
Bloomburg, Martin W. (See Hill, Harvey N., assignor.)						
Bloomer, Charles T., New York, N. Y. Telephone.....	514,695	Feb. 13	1199	299	66	1098
Bloomer, Helen A. S. (See Sherman, Stephen F., assignor.)						
Bloomer, Walter C., Brooklyn, N. Y. Grooving-tool.....	525,482	Sept. 4	275	67, 68	68	1203
Bloomer, Walter C., Brooklyn, N. Y. Pneumatic tube-fisher.....	526,141	Sept. 18	1423	333	68	1435
Blosser, John R., Washington, Ill. Carrycomb.....	517,259	Mar. 27	2560	600	66	1981
Blosser, Theodore B., and J. P. Kunkle, assignors of one-half to A. Ferrell, Springfield, Ohio. Vehicle-wheel.....	529,474	Nov. 20	1724	411	69	999
Blount, Eugene I., Gardner, Mass. Fire-escape.....	526,679	Oct. 2	15	4	69	5
Blount, Eugene I., Gardner, Mass., assignor to Blount Manufacturing Company, Portland, Me. Door check or closer.....	527,584	Oct. 16	1494	363	69	306
Blount, Eugene I., Gardner, Mass., assignor to Blount Manufacturing Company, Portland, Me. Door check or closer.....	527,585	Oct. 16	1496	364	69	306
Blount, Eugene I., Gardner, assignor to Blount Manufacturing Company, Boston, Mass. Sash-fastener.....	527,586	Oct. 16	1497	364	69	306
Blount, Eugene I., Gardner, assignor to Blount Manufacturing Company, Boston, Mass. Door check and closer.....	528,321	Oct. 30	2736	672	69	572
Blount Manufacturing Company. (See Blount, Eugene I., assignor.)						
Blow, George P., U. S. Navy. Revolver.....	514,696	Feb. 13	1200	299 300	66	1098
Blow, Richard T., et al. (See Moran, Michael, assignor.)						
Blowers, Charles A. (See Arkell and Blowers.)						
Blue, Charles E., Wheeling, W. Va. Work-holder.....	518,750	Apr. 24	2287	568	67	461
Blue, Charles E., Wheeling, W. Va. Boring-tool.....	524,375	Aug. 14	719	175	68	809
Blue, Charles E., assignor of five-eighths to A. E. Hubbard and L. V. Blue, Wheeling, W. Va. Mold for the manufacture of glassware.....	531,609	Dec. 25	2699	647	69	1758
Blue, Louis V., et al. (See Blue, Charles E., assignor.)						
Blum, John. (See Schachel, John L., assignor.)						
Blumenberg, Henry, Jr., Mt. Vernon, N. Y. Electrolysis.....	519,400	May 8	848	205	67	715
Blumer, James, Brooklyn, N. Y. Sand filter and trap.....	525,182	Aug. 28	2118	515	68	1091
Blundell, William C., assignor of one-half to G. P. Dold, Wichita, Kans. Barrel-head.....	521,097	June 5	617	145	67	1308
Blüthen, Ernst, Berlin, Germany. Machine for cutting quill-strips.....	519,659	May 8	1301	311	67	795
Boal, Stanhope, Piqua, Ohio. Cooking-stove.....	527,382	Oct. 9	1158	284	69	230
Boardman, Alphonso F., Brooklyn, N. Y. Street-car fender.....	529,357	Nov. 20	1490	353	69	959
Boardman, Amos H. (See Underwood, Robert L., assignor.)						
Boardman, Arthur F., Somerville, assignor of one-half to J. D. Leatherbee, Braintree, Mass. Magneto-telephone.....	520,406	May 29	2564	620	67	1074
Boardman, Arthur F., Somerville, assignor of one-half to J. D. Leatherbee, Braintree, Mass. Telephone-transmitter.....	530,575	Dec. 11	898	221	69	1395
Boas, Gabriel, Boston, Mass. Apparatus for applying insecticides or similar substances.....	514,253	Feb. 6	424	118	66	944
Boas, Moritz. (See Pharo, John F., assignor.)						
Boatwright, Jefferson D., Barachias, Ala. Cordage-measuring machine.....	530,385	Dec. 4	547	136	69	1315
Boch, Noah W., Trenton, N. J. Die for the manufacture of earthenware vessels.....	520,294	May 22	2376	577	67	1022
Boek, Ada F., Akron, Ohio. Safety attachment for brooch-pins.....	521,598	June 19	1514	354	67	1503
Boek, Johannes. (See Wulff, Ludwig, assignor.)						
Bockelman, Henry, Pierce, Nebr. Hame-tug.....	517,260	Mar. 27	2561	601	66	1982
Bockman, Elmor, and J. E. Hagan, Philadelphia, Pa. Fender for trolley or other cars.....	524,883	Aug. 21	1564	382	68	976
Bode, Peter J., assignor of one-eighth to S. Cutler, St. Louis, Mo. Smokeless boiler-furnace.....	526,229	Sept. 18	1676	396	68	1482
Bodell, Benjamin, Anburn, N. Y. Spinning-jenny.....	527,587	Oct. 16	1498	364	69	306
Boden, August, Halberstadt, Germany. Sounding-board for pianofortes.....	513,478	Jan. 30	2912	717	66	684
Bodiker, Dallas A. and J. H. Dayton, Ohio. Weather-strip.....	530,576	Dec. 11	899	221	69	1395
Bodiker, John H. (See Bodiker, Dallas A. and J. H.)						
Bodley, Frederick R., London, England. Nut-lock.....	525,328	Sept. 4	8	2	68	1152
Bodley, Homer S., and A. P. St. Martin, Baton Rouge, La. Automatic alarm-signal.....	523,194	July 17	1776	446	68	365
Bodley, Temple, Louisville, Ky. Holder for paper, &c.....	525,483	Sept. 4	276	68	68	1203
Bodmer, Christian. (See Trant and Bodmer.)						
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Oil cooking-stove.....	520,407	May 29	2564	620	67	1074
Boeckh, Charles, Jr., Toronto, Canada. Bridle for paint-brushes.....	529,018	Nov. 13	903	213	69	830

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Boeckh, Charles, Jr., Toronto, Canada. Bridle for paint-brushes	530,386	Dec. 4	549	136	69	1315
Boeckling, Frank M. (See Black and Chapman, assignors.)						
Boegen, John E., assignor to T. E. Webster, Bay City, Mich. Means for operating sectional nuts of vices	521,698	June 19	1677	394	67	1534
Boehm, Carl T. (See Carter, Bell, and Boehm.)						
Boehm, Gustav, Long Island City, N. Y. Guard for cars	522,003	June 26	2247	539	67	1656
Boehme, John L. (See McClelland, Robert W., assignor.)						
Boehrer & Soehne, C. F. (See Schmiedeburg, Oswald, assignor.)						
Boeing, William C., and T. P. Stork, Hermann, Mo. Music-leaf turner	521,756	June 19	1793	426	67	1555
Boeing, William C., and T. P. Stork, Hermann, Mo. Binder for music, magazines, &c.	531,256	Dec. 18	2076	496	69	1622
Boeken, Joseph H., Nuevitas, Cuba. Decorticating-machine	524,573	Aug. 14	1042	257	68	869
Boellner, Otto F. (See Wellpott and Boellner.)						
Boeri, Joseph, New York, N. Y. Fruit-stoner	519,939	May 15	1748	429	67	892
Boese, Wilhelm A., Berlin, Germany. Manufacturing active material for secondary electric batteries	517,427	Apr. 3	10		67	5
Boesger, Max A., and F. V. Dotterweich, Cleveland, Ohio. Inhaler	530,321	Dec. 4	430	107	69	1293
Boetticher, Hans C., Leipsic, Germany. Sheath for mouth-organs	524,700	Aug. 21	1255	310	68	922
Bofinger, William H. (See Gardner, Cook, and Tannenber, assignors.)						
Boford, Louis, and J. Blackman, New York, N. Y. Ash-chute	521,599	June 19	1515	354	67	1503
Bogart, Samuel S., et al. (See Daves, William, assignor.)						
Bogart, Samuel S., Schraalenburg, N. J., and M. B. Leopold, Richmond, Va., assignors to Electric Selector and Signal Company, of West Virginia. Electrical apparatus for controlling signals	529,059	Nov. 13	970	229	69	842
Boggs, Charles W. (See Taylor, George W., assignor.)						
Boggs, Taylor, Chillicothe, Ohio. Disk harrow	513,072	Jan. 23	2246	542	66	519
Bogue & Mills Manufacturing Company. (See Mills, Frank W., assignor.)						
Bohle, Ernst B., Werdau, Germany. Carding-engine	511,749	Jan. 2	16	4	66	6
Bohlinger, Alfred P., St. Louis, Mo. Lace-curtain stretcher	513,073	Jan. 23	2247	542	66	520
Böhm & Company. (See Böhm, Ernst, assignor.)						
Böhm, Ernst, assignor to Böhm & Company, London, England. Sign.	524,752	Aug. 21	1345	328	68	937
Böhm, Joseph and R., New York, N. Y. Drilling-machine	518,803	Apr. 24	2371	587	67	476
Böhm, Ludwig K. (See Crawford and Böhm.)						
Böhm, Rudolph. (See Böhm, Joseph and R.)						
Bohn, Joseph M., Dayton, Ky. Suspenders	521,082	June 5	589	138	67	1303
Bohn, René, Mannheim, assignor to Badische Anilin und Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Blue alizarin dye	519,229	May 1	520		67	638
Bohner, Joseph J., Brooklyn, N. Y. Boiler	530,006	Nov. 27	2643	635	69	1181
Bohr, Joseph, Westphalia, Mich. Extension-table	522,101	June 26	2338	576	67	1685
Bohringer, Louis. (See Brooken and Bohringer.)						
Boileau, Etienne, assignor to Improved Zigzag Grate Bar Company, St. Louis, Mo. Grate-furnace	525,805	Sept. 11	843	191	68	1318
Boileau, Etienne, assignor to Improved Zigzag Grate Bar Company, St. Louis, Mo. Boiler-furnace	526,006	Sept. 11	1188	272	68	1380
Boileau, Etienne, assignor to Improved Zigzag Grate Bar Company, St. Louis, Mo. Boiler-furnace	526,363	Sept. 18	1812	{ 429 430 }	68	1509
Bois, Jules, assignor to La Société Anonyme de la Serrure Sans Clef, Lyons, France. Permutation-lock	516,467	Mar. 13	1210	290	66	1694
Bois, Jules, assignor to Société Anonyme de la Serrure sans Clef, Lyons, France. Combination-lock	528,651	Nov. 6	235	58	69	688
Boisclair, John, Montreal, Canada. Windmill	529,358	Nov. 20	1492	{ 358 359 }	69	959
Bokhof, David H. (See Rippen, Herbert A., assignor.)						
Bokmayer, Walter. (See Kleiner, Bokmayer, and Hoffmann.)						
Bold, George, and J. E. Oldham, Plainfield, N. J. Foot-power for propelling boats	514,640	Feb. 13	1111	277	66	1080
Boldenweck, William. (See Bartlett, James E., assignor.)						
Bolding, James P., assignor of one-half to J. A. Latimer, Forney, Tex. Churn	520,724	May 29	3098	750	67	1172
Bolenbacher, George W., et al. (See Phillips, Thomas E., assignor.)						
Boles, Warren H. (See Collins, Herman B., assignor.)						
Boles, Warren H., et al. (See Rowlands, John R., assignor.)						
Boles, Warren H., Syracuse, N. Y. Photographic burnisher	527,315	Oct. 9	1049	254	69	209
Boley, Benjamin, Brooklyn, N. Y. Bottle-stopper	521,779	June 26	1338	438	67	1580
Bolziano, John, Baltimore, Md. Fancet attachment	519,521	May 8	1069	256	67	754
Boll, William, Red Oak, Iowa. Mileage-book	514,538	Feb. 13	936	237	66	1047
Bolles, Emerson L., China, La. Car-coupling	521,631	June 19	1573	368	67	1514
Bolles, Frank G., assignor of one-third to P. Eaton, Washington, D. C. Electric switch	528,900	Nov. 6	682	164	69	771
Bollman, Oscar H., St. Louis, Mo. Muffler for pianos	519,983	May 15	1822	446	67	905
Bolt, Nicholas. (See Van Kalker and Bolt.)						
Bolte, Frank H., and E. D. King, assignors to National Time Recorder Company, Milwaukee, Wis. Workman's time-recorder	512,499	Jan. 9	1296	{ 311 312 }	66	256
Bolthoff, Henry, Denver, Colo. Mortar for stamp-mills	515,896	Mar. 6	258	61	66	1502
Bolthoff, Henry, Denver, Colo. Hoisting-drum	526,007	Sept. 11	1189	272	68	1380
Bolton, Dan G., Cooperstown, N. Y. Ice-velocipede	526,556	Sept. 25	2151	514	68	1584
Bolzani, Anton, Berlin, Germany. Brake for hoisting or lifting apparatus	525,528	Sept. 4	247	85	68	1215
Bolzani, Anton, Berlin, Germany. Shaft-coupling	527,655	Oct. 16	1606	388	69	326
Bomeisl, Bernard. (See Diener, Charles, assignor.)						
Bommarius, Frederick, New Orleans, La. Filter	519,565	May 8	1138	273	67	767
Bond, Adam, Detroit, Mich. Dental bracket	531,257	Dec. 18	2078	497	69	1622
Bond, Alice T. (See Smith, Arthur W., assignor.)						
Bond, Charles W., Rippyville, Ky. Band-cutter and feeder	529,890	Nov. 27	2417	{ 580 581 }	69	1137
Bond, Frederick W., St. Louis, Mo. Weigh-hopper for platform-scales	523,454	July 24	2221	558	66	462
Bond, Frederick W., assignor of one-half to E. J. Crandall, St. Louis, Mo. Car-loader	512,575	Jan. 9	1402	339	66	276
Bond, George W., Raynham, Mass. Wire-nail-making machine	529,475	Nov. 20	1725	411	69	999
Bond, George W., Raynham, Mass. Dowelling-machine	529,697	Nov. 27	2094	502	69	1077
Bond, James C. (See Hallock, William H., assignor.)						
Bond, Nathan O., Fairfax Court-House, Va. Supporting frame for toilet sets	515,949	Mar. 6	338	81	66	1516
Bond, Nathan O., Fairfax Court-House, Va. Coffee-pot	529,238	Nov. 13	1283	308	69	898
Bone, Alfred R. (See Van Dyke, Robert B., assignor.)						
Bone, Scott C., et al. (See Bischoff, Frank R., assignor.)						
Bonehill, Louis R., assignor to W. H. Swift, St. Louis, Mo. Furnace for smelting and refining ores	518,874	Apr. 24	2479	614	67	497
Bonehill, Louis R., assignor of two-thirds to G. A. Pierrot and W. H. Swift, St. Louis, Mo. Smelting and separating furnace	515,727	Feb. 27	2880	719	66	1441
Bonenberger, George. (See Herth and Bonenberger.)						
Bones, Benjamin R., assignor of one-fourth to C. C. Beebe, Racine, Wis. Harrow	512,859	Jan. 16	1920	454	66	390

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Bongfeldt, Charles J., assignor of one-half to A. Bruce, East Marinette, Wis. Sled attachment for baby-carriages	527,357	Oct. 9	1116	273	69	222
Bonham, Baruch W., <i>et al.</i> (See Fifield, Henry H., assignor.)						
Bonham, Silas S., <i>et al.</i> (See Fifield, Henry H., assignor.)						
Bonham, Walter R., St. Paul, Minn. Ratchet-drill	515,395	Feb. 27	2355	585	66	1340
				98		
Bonjour, Claude, Paris, France. Hydraulic apparatus for controlling fluid-pressure motors.	519,168	May 1	408	99	67	616
				100		
Bonnabs, Benjamin, North Temescal, Cal. Car-coupling	519,600	May 8	1199	289	67	777
Bonnar, William, Bolton, Canada. Wheel for vehicles	516,072	Mar. 6	549	128	66	1555
Bonnefond, Charles, assignor to La Compagnie Francaise de Materiel de Chemins de Fer, Paris, France. Mill	525,582	Sept. 4	441	106	68	1233
Bonner, Charles. (See May, Benjamin W., assignor.)						
Bonner, Julius, New York, N. Y. Safety device for jewelry	527,358	Oct. 9	1117	273	69	222
Bonner, Julius, Newark, N. J. Ear-ring	527,359	Oct. 9	1118	273	69	222
Bonnet, Joseph. (See Placet and Bonnet.)						
Bonney, Edmund J. (See Davis, Francis G., assignor.)						
Bonnhield, Samuel. (See Ishi, James T., assignor.)						
Bonnlander, Egidius, Beaver Dam, Wis. Scaffold	515,738	Mar. 6	4	1	66	1455
Bonnot Company. (See Bonnot, Louis C., assignor.)						
Bennet, Louis C., assignor to Bonnot Company, Canton, Ohio. Bolting-machine	522,702	July 10	899	221	68	188
Bennoe, Theodore, St. Louis, Mo. Self-closing cock or faucet	514,879	Feb. 13	1502	377	66	1155
Bonsack Machine Company. (See Strouse, Demetrius B., assignor.)						
Bonsall, Millie V., assignor to Pelzer Art Co., Salem, Ohio. Lace-curtain frame	527,316	Oct. 9	1052	254	69	210
Bonta, James W., Wayne, Pa., assignor to Bonta Plate Glass Company, of West Virginia. Apparatus for manufacturing embossed-glass tablets	527,476	Oct. 16	1321	322	69	276
Bonta, James W., Wayne, Pa., assignor to Bonta Plate Glass Company, of West Virginia. Apparatus for the manufacture of ornamental sheets or plates of glass	529,157	Nov. 13	1136	275	69	873
Bonta, James W., Wayne, Pa., assignor to Bonta Plate Glass Company, of West Virginia. Leer or annealing-oven for sheet or plate glass	529,316	Nov. 13	1124	342	69	925
				343		
Bonta Plate Glass Company. (See Bonta, James W., assignor.)						
Book, Dwight D., Brooklyn, N. Y. Bond for electric railways	526,142	Sept. 18	1425	333	68	1435
Bookwalter, Francis M., and W. W. Tyler, assignors to James Leffel & Company, Springfield, Ohio. Water-wheel	525,440	Sept. 4	210	52	68	1189
				241		
Bools, Zadock H., Chicago, Ill. Heater	524,538	Aug. 14	983	242	68	858
Boombover, Eli E., assignor to G. J. Slayton, R. H. Peck, C. J. Slayton, D. Randall, W. S. Cheney, J. W. Spaulding, G. W. Hendee, Laog & Campbell, H. Waite, E. A. Leach, W. H. Slayton, Morrisville, and M. S. Burnell, Wolcott, Vt. Truss	519,822	May 15	1662	405	67	876
Boono, John L. (See Mead and Clemens, assignors.)						
Boone, Nellie F., <i>et al.</i> (See Whitaker, David W., assignor.)						
Boone, Robert, <i>et al.</i> (See Du Bois, Henry L., assignor.)						
Boone, William C., <i>et al.</i> (See Stanley, Oramel C., assignor.)						
Boorman, John M., Hempstead, N. Y. Sailing-vessel	517,155	Mar. 27	2386	563	66	1947
				564		
Booth, Alpheus I., assignor to Haines, Jones & Cadbury Company, Philadelphia, Pa. Water-closet	526,008	Sept. 11	1190	273	68	1380
Booth, Charles S., assignor of two-thirds to T. L. Armstrong and E. B. Norton, Oakland, Cal. Freezing-plate for ice-machines	525,733	Sept. 11	723	166	68	1296
Booth, Frederick, Concord, N. H. Siphon-valve	529,584	Nov. 20	1918	457	69	1035
Booth, George, Toronto, Canada. Range-boiler	516,073	Mar. 6	550	128	66	1555
Booth, George T. (See Crook, Fredrick, assignor.)						
Booth, Lebbeus L., St. Anthony, Idaho. Trace-buckle	525,973	Sept. 11	1141	259	68	1371
Booth, Theodore F., administrator. (See Stow, Henry W.)						
Boothe, Isaac J. (See Briggs, Charles L., assignor.)						
Boots, George E., and W. O. Eakright, Butler, Ind. Wire-clamp for fences	526,123	Sept. 18	1394	324	68	1429
Borbridge, William, T. Fraser, and W. Prenter, assignors of one-fourth to H. B. Spencer, Ottawa, Canada. Air-brake coupling	526,178	Sept. 18	1483	347	68	1445
Borchard, John E., New Jerusalem, Cal. Separator	527,656	Oct. 16	1607	388	69	326
Borchardt, August F., <i>et al.</i> (See Grant, Robert A., assignor.)						
Borchert, Oscar, Jersey City, N. J. Garment-stand	520,251	May 22	2307	559	67	1008
Borden, Thomas P. (See Lamplough, Frederick, assignor.)						
Bordt, Christian, Camden, N. J. Skylight	519,169	May 1	414	101	67	617
Boren, Walter J. (See McTurner, Boren, and Turner.)						
Borgfeldt, Nicholas H., Brooklyn, N. Y. Cigar-bunching machine	529,891	Nov. 27	2421	581	69	1137
Borgfeldt, Nicholas H., Brooklyn, assignor of one-sixth to C. F. Zenker, New York, N. Y. Apparatus for aerial navigation	530,219	Dec. 4	252	62	69	1261
Bork, Joseph F., and J. Simand, Milwaukee, Wis. Overhead-track apparatus	530,636	Dec. 11	1009	246	69	1414
Born, Christian and L. Hamburg, Germany. Writing desk or table	525,183	Aug. 28	2119	516	68	1091
Born, Ludwig. (See Born, Christian and L.)						
Borman, Camille de, and C. Alker, Brussels, Belgium. Transparency-netter	514,539	Feb. 13	938	237	66	1048
Borneman, Daniel R., Pottstown, Pa. Washing-machine	526,143	Sept. 18	1427	333	68	1436
				334		
Bornstein, Henry, Boston, Mass. Scarf-pin	517,795	Apr. 3	522	126	67	101
Borsch, John L., Philadelphia, Pa. Spectacles or eyeglasses	528,528	Nov. 6	11	4	69	643
Borton, Chester C., Chicago, Ill. Draft-rigging for platform-cars	524,817	Aug. 21	1458	356	68	958
Borton, Job, Barnesville, Ohio. Twisting-tool for fence-wire	512,940	Jan. 16	2055	486	66	414
Borton, Stockton, Brooklyn, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine	525,042	Aug. 28	1861	455	68	1048
Burton, Stockton, Brooklyn, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Thread-cutter for sewing-machines	525,043	Aug. 28	1862	455	68	1048
Burton, Stockton, Brooklyn, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Seam for cut knit goods	525,044	Aug. 28	1864	456	68	1048
Burns, John J. (See Newbury, Charles H., assignor.)						
Bosch, Franz, Munich, Germany. Teething-ring	516,561	Mar. 13	1371	326	66	1723
Boscovatz, Charles M., New York, N. Y. Bottle-guard	529,317	Nov. 13	1426	343	69	926
Bose, Nicholas. (See Krebs, Hermann, assignor.)						
Bosi, Luigi, Tericciola, Italy. Knitting-machine	516,960	Mar. 20	2037	481	66	1865
Bosler, Christian L. (See Jackaway, William, assignor.)						
Bosley, Benjamin. (See Bosley, Lewis C. and B.)						
Bosley, Daniel W., Chicago, Ill. Weather-strip machine	512,271	Jan. 9	894	216	66	181
Bosley, Henry C., and J. H. Organ, Tioga, Tex. Combined cotton chopper and cultivator.	513,074	Jan. 23	2249	542	66	520
				543		
Bosley, Lewis C. and B., Spickard, Mo. Pruning-knife	531,358	Dec. 25	2268	540	69	1674

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Bosmann, Nicolas, assignor to J. Schneider and J. Katzbach, Chicago, Ill. Fixture for vertically adjusting window-shades.....	521,280	June 12	933	221	67	1379
Boss, Ella M. (See Boss, Fred E., assignor.).....						
Boss, Fred E., assignor to E. M. Boss, New York, N. Y. Vehicle-axle nut.....	530,387	Dec. 4	550	136	69	1315
Bostad, Christian. (See Krabold and Bostad.).....						
Bostad, Christian, assignor to Automatic Folding Bed Company, Chicago, Ill. Folding-bed joint.....	520,751	May 29	3143	761	67	1179
Bostedo, Lonis G., Chicago, Ill. Store-service.....	523,455	July 24	2223	558 559	68	462
Bostedo, Louis G., Chicago, Ill. Pneumatic dispatch-tube.....	523,456	July 24	2225	559 560	68	462
Bostedo, Louis G., Chicago, Ill. Receiving and dispatch box for pneumatic dispatch systems.....	523,457	July 24	2227	560	68	462
Bostedo, Louis G., and E. A. Fordyce, Chicago, Ill. Receiving-box for pneumatic dispatch-tubes.....	525,583	Sept. 4	443	106	68	1233
Boster, Charles, et al. (See Turnbull, Joseph W., assignor.).....						
Bostick, William D. (See Kunkle, Erastus E., assignor.).....						
Boston Cash Register Company. (See Webster, Ambrose, assignor.).....						
Boston Cash Register Company. (See Webster, Jerome J., assignor.).....						
Boston Cash Register Company. (See Webster, Jerome J. and A., assignors.).....						
Boston, James, Du Bois, Nebr. Pulverizing-harrow.....	518,391	Apr. 17	1663	410	67	337
Boston Lasting Machine Company. (See Nye, David B., assignor.).....						
Boston, Robert N., Chestertown, Md. Ironing-board attachment.....	528,846	Nov. 6	597	141	69	755
Boston Shoe Tool Company. (See Emery, John B., assignor.).....						
Boswell, George G. F., assignor of one-half to W. A. Bruce, Indianapolis, Ind. Square-holder.....	527,035	Oct. 2	596	144	69	112
Boswell, George G. F., assignor of one-half to F. B. Davenport, Indianapolis, Ind. Tug-holder.....	529,676	Nov. 20	2056	492	69	1060
Boswell, William C., Clarksburg, W. Va. Poling device for railway-cars.....	529,060	Nov. 13	972	329	69	843
Boswell, William F., Joplin, Mo. Elevator-cup.....	529,698	Nov. 27	2096	502	69	1078
Bostwick, Charles E., assignor of one-half to G. E., J. W., and J. C. Grier, Du Bois, Pa. Trolley-wheel.....	522,550	July 3	635	161	68	124
Bosworth, Charles B., Everett, Mass. Gage.....	522,551	July 3	635	162	68	124
Bosworth, Charles B., Everett, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Feed-water regulator.....	530,388	Dec. 4	551	137	69	1316
Bosworth Machine Company. (See Dodge and Richards, assignors.).....						
Bosworth Machine Company. (See Dodge, Tillou, and Richards, assignors.).....						
Bosworth, Martin L., Warren, R. I. Chemical fire-extinguisher.....	515,460	Feb. 27	2453	608	66	1358
Bosworth, Martin L., Warren, R. I. Chemical fire-extinguisher.....	527,036	Oct. 2	597	144	69	112
Bosworth, Minnie L. (See Bosworth, Richard O. S., assignor.).....						
Bosworth, Richard O. S., assignor to M. L. Bosworth, Portland, Ind. Gate.....	525,184	Aug. 28	2120	516	68	1091
Bothwell, William T. (See Smith, Nathaniel E., assignor.).....						
Botkin, Abraham, New York, N. Y. Combination-trunk.....	512,941	Jan. 16	2056	487	66	414
Rotsford, Frederick G., Cleveland, Ohio, assignor of one-half to F. E. Shaw, Dunkirk, N. Y. Journal-box.....	513,075	Jan. 23	2250	543	66	520
Bott, Joseph E., Eyam, England. Circular saw.....	514,207	Feb. 6	394	94	66	927
Bonchard, Charles, Chicago, Ill. Kitchen-cabinet.....	514,540	Feb. 13	933	237	66	1048
Bouck, Roland N. (See Gray, John H., assignor.).....						
Boudreaux, Leandre, Thibodeaux, La. Steam-cylinder valve.....	530,503	Dec. 11	759	186	69	1371
Boudry, John, Fond du Lac, Wis. Dough-raising apparatus.....	521,972	June 26	2178	523	67	1645
Boughton, Claudius V., assignor to Boughton Telephotos Company, Buffalo, N. Y. Signal-telescope.....	523,617	July 24	2492	626 627	68	511
Boughton, Frank M. (See Jochims and Boughton.).....						
Boughton, Frank P. (See Muckenhirn, Charles H., assignor.).....						
Boughton Telephotos Company. (See Boughton, Claudius V., assignor.).....						
Boulay, Alfred, Central Falls, R. I. Shuttle-threader.....	524,240	Aug. 7	458	107	68	745
Boulter, Eugene, Les Lilas, France. Speed-indicator for bicycles.....	523,565	July 24	2408	603	68	496
Bourdreaux, George C., Peoria, Ill. Trolley-wheel.....	513,076	Jan. 23	2251	543	66	520
Bourdreaux, George C., Peoria, Ill. Trolley for electric cars.....	524,017	Aug. 7	62	18	68	677
Bourdette, Willis C., Gunnison, Colo. Wrecking-frog.....	522,874	July 10	1187	296	68	240
Bourgeat, Joseph A., New York, N. Y. Balanced valve.....	523,969	Aug. 7	4	1, 2	68	663
Bourgeois, Jules E. M., Paris, France, assignor to T. W. L. Emden, London, England. Dressing compound for leather.....	526,769	Oct. 2	167		69	32
Bourgeois, Philip E., East Longmeadow, Mass. Nut-lock.....	517,022	Mar. 27	2152	510	66	1903
Bourgeois, Abraham A., East Longmeadow, Mass. Bit.....	514,178	Feb. 6	337	81	66	917
Bourgeois, Abraham A., East Longmeadow, Mass. Boring-bit.....	521,430	June 12	1201	265	67	1430
Bourland, Harry D., Madisonville, Ky. Tobacco-knife.....	513,077	Jan. 23	2252	543	66	521
Boutlier, Alphonse, Louisville, Ky. Advertising-cabinet.....	525,185	Aug. 28	2121	517	68	1091
Bourne, Ebenezer H., Cleveland, Ohio. Machine for upsetting the ends of steel bars.....	515,190	Feb. 20	1938	496	66	1259
Bourne, M. A. (See Sanborn, William H., assignor.).....						
Bourne, Theodore F. (See Okun, Moses S., assignor.).....						
Bourne, Theodore F., Edgewater, N. Y. Extension-crank.....	524,522	Aug. 14	961	236	68	854
Bourne, George C., Worcester, Mass. Spectacles.....	513,078	Jan. 23	2253	544	66	521
Bourque, Edouard A., assignor of one-half to G. Groder, Waterville, Me. Device for threading loom-shuttles.....	522,583	July 10	704	179	68	154
Bouret, Louis H. (See Bredsvold, Paul A., assignor.).....						
Bouse, James, Clintondale, Pa. Combined truck and bag-holder.....	530,007	Nov. 27	2644	635	69	1181
Boutelle, Llewellyn W., Orange, Mass. Molder's flask.....	522,959	July 17	1355	336	68	288
Boutwell, George S., New Bedford, Mass. Duplicate whist-table.....	529,699	Nov. 27	2097	502	69	1078
Bouvé, Crawford & Company Corporation. (See Packard, James W., assignor.).....						
Bouvé, Crawford & Company Corporation. (See Stone, Florentine L., assignor.).....						
Bouvier, Adolphe, Lyons, France. Siphon test-box for gas-mains.....	522,582	July 10	703	179	68	153
Bouvier, Adolphe, Lyons, France. Siphon test-box for gas-mains.....	526,852	Oct. 2	298	72	69	57
Bouvier, Nazaire, and I. Belair, Montreal, Canada. Fire-escape.....	515,106	Feb. 20	1847	465	66	1232
Bovy, Louis C., Welkenraedt, Belgium. Ice-breaker for tugs, &c.....	515,739	Mar. 6	5	1, 2	66	1456
Bovyer, John A., San Diego, Cal. Adjustable fastener.....	519,831	May 15	1577	326	67	860
Bow, Richard, assignor of two-thirds to R. Hampson and J. M. Brown, McKeesport, Pa. Furnace.....	520,032	May 22	1910	467 468	67	936
Bowden & Co., J. B. (See Bernhardt, Herman V., assignor.).....						
Bowden & Co., J. B. (See Lambert, Alonzo, assignor.).....						
Bowden, Junius A., Detroit, Mich. Filter.....	522,043	June 26	2305	552 553	67	1667
Bowden, Junius A., Detroit, Mich. Filtering apparatus.....	528,652	Nov. 6	237	59	69	689
Bowden, Junius A., Detroit, Mich. Filter.....	530,008	Nov. 27	2645	635 636	69	1181

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Bowdoin, Harry L., Wilmington, N. C. Rudder-lock	523,618	July 24	2498	628	68	512
Bowen, David F. (See Gray and Bowen.)						
Bowen, George A., Fond du Lac, Wis. Refrigerator	515,647	Feb. 27	2748	685	66	1415
Bowen, George A., assignor of one-half to C. L. Muentner, Fond du Lac, Wis. Exercising apparatus	515,461	Feb. 27	2455	608	66	1358
Bowen, George A., assignor of one-half to C. L. Muentner, Fond du Lac, Wis. Folding table	515,462	Feb. 27	2457	609	66	1359
Bowen, George E. (See Bailey and Bowen.)						
Bowen, George M., Talbott, Tenn. Gate-hinge	527,765	Oct. 23	1791	432	69	378
Bowen, George R., San Antonio, Tex. Road pavement	521,364	June 12	1095	257	67	1411
Bowen, Isaac N., and T. Troxel, Chariton, Iowa. Thill-coupling	529,825	Nov. 27	2314	551	69	1117
Bowen, Menard K., Chicago, Ill. Stove for heating street-cars	519,442	May 8	913	220	67	727
Bowen, Menard K., Chicago, Ill. Street-car heater	529,158	Nov. 13	1137	275	69	873
Bowen, Owen W., Albion, Ind. Carriage-jack	524,701	Aug. 21	1257	310	68	922
Bowen, Samuel C., Medina, N. Y. Wire fence	517,209	Mar. 27	2483	584	66	1966
Bowen, William H., Wise, assignor to Keystone Manufacturing Company, Lansing, Mich. Thrashing-machine	523,423	July 24	2156	541	68	451
Bowen, William J., Norwalk, Ohio. Electric heater	512,797	Jan. 16	1797	428	66	367
Bowen, William R., Clayton, Fla. Hand seed-sower	525,942	Sept. 11	1078	245	68	1359
Bower, Jesse. (See Cole and Bower.)						
Bower, Samuel C., Mountain Eagle, Pa. Fence	530,504	Dec. 11	761	186	69	1371
Bower, Thomas F., Upper Sandusky, Ohio. Vehicle-tongue	529,106	Nov. 13	1050	253	69	857
Bowerman, Joseph H., assignor of one-half to S. R. Bowerman, South Haven, Mich. Elastic-tread horseshoe	513,871	Jan. 30	3567	878	66	807
Bowerman, Samuel R. (See Bowerman, Joseph H., assignor.)						
Bowers, Henry, Milton, Wis. Laud-marker	529,585	Nov. 20	1919	458	69	1035
Bowers, Lewis M., assignor of one-half to H. C. Rehmyer, Hopewell, and E. E. Allen, Shrewsbury, Pa. Horse-detacher	524,241	Aug. 7	459	107	68	745
Bowers, William F., San Francisco, Cal. Manufacturing samples of hose, &c.	530,678	Dec. 11	1079	262	69	1426
Bowers, Winfield T., et al. (See Cox, Charles T., assignor.)						
Bowes, Homer. (See Hensel, Otto A., assignor.)						
Bowie, William S., Boston, Mass. Couch-bed	523,619	July 24	2500	628	68	513
Bowker, Richard R., New York, N. Y. Arc-lamp post	524,305	Aug. 14	573	136	68	784
Bowler, John A., New York, N. Y. Box-strap	522,875	July 10	1189	296	68	241
Bowles, John L., Philadelphia, Pa., assignor to J. H. Rae, Milford, Del. Mortar-mixing machine	515,463	Feb. 27	2458	609	66	1359
Bowles, Richard, Harrison, N. J. Awning attachment	520,556	May 29	2813	679	67	1119
Bowles, Robert C. M., Boston, Mass. Stethoscopic instrument	526,802	Oct. 2	216	52	69	41
Bowley, George J., Indianapolis, Ind., assignor to H. B. Brown, F. G. Withoff, and H. Swope, Dayton, Ohio. Furniture-caster	514,613	Feb. 13	1068	267	66	1072
Bowley, Joseph H., assignor of one-half to J. W. Stockwell, Marengo, Ill. Preserving-case for eggs	520,252	May 22	2309	560	67	1009
Bowley, Joseph H., assignor of one-half to J. W. Stockwell, Marengo, Ill. Knockdown rack for supporting shipping-cases	525,186	Aug. 28	2123	517	68	1092
Bowles, Edward, Frederick, Md. Artificial tooth	522,400	July 3	393	101	68	78
Rowman, A. C., et al. (See Bright, William H., assignor.)						
Rowman, Ezra F. (See Hutchinson, John L., assignor.)						
Rowman, Hadoram, assignor of one-half to J. G. Wheeler, Hunt Spn, Mich. Feed-water regulator	525,484	Sept. 4	278	68	68	1203
Bowne, Albert S., Brooklyn, N. Y. Holder for cores of paper-rolls	520,154	May 22	2143	522	67	978
Bowser, Allen A., et al. (See Edwards, John J., assignor.)						
Bowser, Orra J., Fort Wayne, Ind. Barrel-truck	530,577	Dec. 11	900	221	69	1395
Bowser, Sylvanus F., et al. (See Edwards, John J., assignor.)						
Bowsher, Nelson, P., South Bend, Ind. Feed-mill	528,070	Oct. 23	2341	565	69	477
Boyce, Amos V. (See Meyer, Young, and Boyce.)						
Boyce, Arthur, St. Louis, Mo. Steam-boiler or hot-water heater	519,418	May 8	874	212	67	720
Boyce, Arthur, St. Louis, Mo. Boiler-furnace and steam-generator	519,419	May 8	876	212	67	720
Boyce, Thomas H. (See Walker and Boyce.)						
Boyd, Edward J., New York, N. Y. Bottle-corking apparatus	527,477	Oct. 16	1323	322	69	276
Boyd, Frederick C., and C. E. Garding, New Haven, Conn., assignors to New Haven Car Register Company, of Connecticut. Fare-register	520,912	June 5	292	71, 72	67	1251
Boyd, Gertrude R. (See Congleton and Boyd.)						
Boyd, Isham, and B. Hardesty, Eminence, Ky. Portable foot-warmer	525,252	Aug. 28	2214	539	68	1108
Boyd, James, St. Paul, Minn. Combined receptacle and adjustable seat	530,469	Dec. 4	675	168	69	1339
Boyd, James H., Waterville, Wash. Hydraulic motor	525,130	Aug. 28	2014	492	68	1074
Boyd, John G. (See Butler, William A., assignor.)						
Boyd, Minor P., Atlanta, Ga. Forming dental plates	531,092	Dec. 18	1772	423	69	1567
Boyd, Nathaniel W., Carlisle, Pa. Adjustable double bell-crank	516,361	Mar. 13	1032	246	66	1661
Boyd, Peter, et al. (See Shank, Charles A., assignor.)						
Boyd, Randolph, Galva, Ill. Pipe-hanger	521,149	June 12	703	164	67	1337
Boyd, Robert A., Hastings, Neb. Back-support for bicycles	524,753	Aug. 21	1347	329	68	937
Boyd, Robert L., New York, N. Y. Self-binding blotter	529,892	Nov. 27	2423	582	69	1138
Boyd, George A., Mount Washington, Md. Bottle-sealing device	515,990	Mar. 6	420	97	66	1530
Boyd, George A., Baltimore, Md. Car-ventilator	518,220	Apr. 17	1360	339	67	282
Boyens, Carl F., and J. S. Burkholder, Allentown, Pa. Nut-lock	518,049	Apr. 10	1063	268	67	210
Boyer, Allen P., Goshen, Ind. Hay-carrier	517,835	Apr. 10	689	172	67	148
Boyer, Camilla E., Philadelphia, Pa. Game-board	526,373	Sept. 25	1836	476	68	1527
Boyer, Daniel, Cressona, Pa. Car-coupling	520,642	June 5	160	35	67	1226
Boyer, Daniel, Cressona, Pa. Nut-lock	522,144	June 26	2479	594	67	1701
Boyer, Israel D., Dayton, Ohio. Revolving fan	517,428	Apr. 3	11	3	67	5
Boyer, Jesse I. (See Hurst and Boyer.)						
Boylan, Agnes H., et al. (See Newlyn, Robert A., assignor.)						
Boylan, Samuel H., Armour, S. D. Account-keeping apparatus	516,961	Mar. 20	2038	482	66	1365
Boyle, James, Ware, Mass. Candle-extinguisher	529,107	Nov. 13	1050	253	69	857
Boyle, Thomas B., assignor of one-half to W. D. Boyle, Houston, Ill. Rotary engine	527,933	Oct. 23	2091	500	69	432
Boyle, William D. (See Boyle, Thomas B., assignor.)						
Boylett, James H., Poughkeepsie, N. Y. Detector-bar for switches	523,702	July 31	2658	659	68	558
Boynton, Charles H., Oakland, Cal. Type-writing machine	522,285	July 3	193	52, 53	68	40
Boynton, Eben M., West Newbury, Mass. Electric-railway current-collector	512,535	Jan. 9	1344	324	66	265
Boynton, John W., Philadelphia, Pa., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Mechanism for taking up lost motion	525,780	Sept. 11	793	183	68	1309
Boynton, John W., Philadelphia, Pa., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Mechanism for taking up lost motion	525,781	Sept. 11	796	183	68	1309
Braaf, Charles, New York, N. Y. Propelling mechanism for carousels or like machines	523,879	July 31	2975	740	68	616

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Bracey, Benjamin. (See Worsley, Windus, and Bracey.)						
Brachhausen, Gustav A., Hoboken, N. J. Damper for music-boxes	531,359	Dec. 25	2269	541	69	1674
Brack, Johann J., assignor to L. Durand, Huguenin & Co., Basle, Switzerland. Substantive red dye	531,149	Dec. 18	1879	.....	69	1588
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Polyazo dye	515,897	Mar. 6	259	.....	66	1502
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Yellow tetrazo dye	516,468	Mar. 13	1211	.....	66	1694
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Diamido base	516,752	Mar. 20	1704	.....	66	1801
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Diamido base	516,753	Mar. 20	1705	.....	66	1801
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Diamido base	516,754	Mar. 20	1707	.....	66	1802
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Diamido base	516,755	Mar. 20	1708	.....	66	1802
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Red tetrazo dye	516,756	Mar. 20	1709	.....	66	1802
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Blue tetrazo dye	516,757	Mar. 20	1710	.....	66	1802
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Blue tetrazo dye	516,758	Mar. 20	1711	.....	66	1802
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Red tetrazo dye	516,759	Mar. 20	1712	.....	66	1802
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Blue tetrazo dye	516,760	Mar. 20	1713	.....	66	1802
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Polyazo yellow dye	519,522	May 8	1070	.....	67	754
Brack, Johann J., Basle, Switzerland, assignor to L. Durand, Huguenin & Co., St. Fons, France, Basle, Switzerland, and Hünigen, Germany. Polyazo yellowish dye	519,523	May 8	1072	.....	67	754
Brackelsberg, Robert E., and G. G. Edwards, Portland, Oreg. Switch-working mechanism	519,230	May 1	522	126	67	639
Brackemann, Friedrich, Angsburg, Germany. Rotary engine	522,145	June 26	2480	{ 594 595 }	67	1701
Braddell, Alfred E. (See Stanley and Braddell.)						
Braddock, Joseph. (See Hawkyard, John, assignor.)						
Braddock, Warren L., assignor to M. C. Clark and A. S. Coon, Boston, Mass. Garter adjuster and fastener	517,678	Apr. 3	445	107	67	86
Braden, Walter S., Watseka, Ill. Twine-holder	530,878	Dec. 11	1395	332	69	1484
Bradfield, Thomas W., assignor to S. O. Blair, Chicago, Ill. Receptacle for spices	523,321	July 24	1985	499	68	421
Bradford, Ernest W., Indianapolis, Ind. Fountain attachment for pens	513,002	Jan. 16	2153	512	66	433
Bradford, Eugene S., Chicago, assignor to Bradford Machine Company, East St. Louis, Ill. Plate-printing machine	518,134	Apr. 10	1191	299	67	233
Bradford, Harry P., and J. A. Smith, Cincinnati, Ohio. Machine-gear	528,653	Nov. 6	239	59	69	689
Bradford Machine Company. (See Bradford, Eugene S., assignor.)						
Bradish, Frederick T., Boston, Mass. Fastening device for tubs, boxes, &c	517,636	Apr. 10	691	173	67	149
Bradish, Nelson P., assignor of one-half to J. H. Wilcox, Kansas City, Mo. Baby-walker	529,359	Nov. 20	1493	359	69	959
Bradish, Nelson P., and J. H. Wilcox, Kansas City, Mo. Baby-walker	517,403	Mar. 27	2932	663	66	2035
Bradley, Alfred, assignor to L. U. Gill, London, England. Paper-folding machine	521,083	June 5	590	{ 138 139 140 }	67	1303
Bradley, Andrew J., St. Louis, Mo. Die and making same	522,953	July 10	1336	332	68	269
Bradley, Charles S., Yonkers, N. Y. Electrical transmission of power	514,586	Feb. 13	1022	257	66	1063
Bradley, Charles S., Avon, N. Y. Alternating-current motor	514,902	Feb. 20	1544	386	66	1177
Bradley, Charles S., Avon, N. Y. Alternating-current electric motor	514,903	Feb. 20	1546	387	66	1177
Bradley, Charles S., Avon, N. Y. Alternating-current motor	514,904	Feb. 20	1548	387	66	1177
Bradley, Charles S., Avon, N. Y. Alternating-current transformer	519,376	May 8	805	196	67	707
Bradley, Charles S., Avon, N. Y. Generating and utilizing electric currents of high potential	519,377	May 8	806	{ 196 197 }	67	707
Bradley, Charles S., Avon, N. Y. Dynamo-electric machine or motor	522,286	July 3	195	53	68	40
Bradley, Charles S., Avon, N. Y. Method of and apparatus for changing period and phase of alternating currents	525,312	Aug. 28	2306	560	68	1128
Bradley, Charles S., Avon, N. Y. Electric transformer	525,689	Sept. 11	634	149	68	1281
Bradley, Charles S., Avon, N. Y. Electric-railway system	525,690	Sept. 11	635	149	68	1281
Bradley, Charles S., assignor to himself and J. T. Stone, Portland, Oreg. Alarm-bell	515,991	Mar. 6	422	97	66	1531
Bradley, Christopher C., and T. Faulder, Syracuse, N. Y.; said Faulder assignor to said Bradley. Shifting seat for vehicles	519,832	May 15	1578	386	67	861
Bradley, Frank B., assignor to Ajax Forge Company, Chicago, Ill. Nut or bolt lock	530,083	Dec. 4	12	3	69	1217
Bradley, Harold E., New Bedford, Mass. Electric-arc lamp	525,943	Sept. 11	1079	{ 245 246 }	68	1359
Bradley & Hubbard Manufacturing Company. (See Bradley, Nathaniel L., assignor.)						
Bradley & Hubbard Manufacturing Company. (See Hubbard, Walter, assignor.)						
Bradley & Hubbard Manufacturing Company. (See Jauch, Joseph, assignor.)						
Bradley, John, North Chelmsford, Mass. Warp-knitting machine	527,934	Oct. 23	2093	{ 501 502 }	69	432
Bradley, John E., Chicago, Ill. Machine-table	522,004	June 26	2249	539	67	1657
Bradley, John M., (See Thuston, Eli A., assignor.)						
Bradley, Leonard W., (See Fawcett, Ezra, assignor.)						
Bradley, Leonard W., Cleveland, Ohio. Insulator	525,001	Aug. 28	1783	435	68	1033
Bradley, Lynde, Milwaukee, Wis. Electrically-operated wind-vane	525,000	Aug. 28	1782	435	68	1033
Bradley, Milton, Springfield, Mass. Compasses	524,160	Aug. 7	334	79	68	722
Bradley, Nathaniel L., assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Finishing metal	516,469	Mar. 13	1212	.....	66	1694
Bradley, Osgood. (See Winsor, Joseph S., assignor.)						
Bradley Stencil Machine Company. (See Schaad, Henry S., assignor.)						
Bradley, William H., Mingo Junction, Ohio. Cupola-furnace	516,962	Mar. 20	2039	482	66	1866
Bradner, William F., assignor to Electric Specialty Company, Denver, Colo. System for controlling electric lights	517,812	Apr. 3	661	165	67	128
Bradshaw, George, Chicago, Ill. Garment-clasp	523,458	July 24	2228	560	68	403
Bradshaw, Harry. (See Lux, Nicholas, assignor.)						
Bradshaw, Harry, assignor to Bradshaw Paper Feeder Company, Topeka, Kans. Method of and machine for separating and feeding sheets of paper	528,918	Nov. 13	740	{ 173 174 }	69	802
Bradshaw, John W., (See Herman, Christopher B., assignor.)						
Bradshaw Paper Feeder Company. (See Bradshaw, Harry, assignor.)						
Bradt, David L., et al. (See Stearns, William E., assignor.)						
Bradt, William H., Troy, N. Y. Electric alarm for pressure-gages	514,697	Feb. 13	1205	300	66	1099

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Brady, Charles N., Washington, Pa. Cover for fruit-jars or other vessels	529,239	Nov. 13	1285	308	69	899
Brady, James, Brooklyn, N. Y. Wire-cutter	514,254	Feb. 6	486	119	66	944
Brady, James V., Sonora, Ill. Cultivator	530,879	Dec. 11	1396	332	69	1485
Brady, Patrick, New London, Conn. Printing-press	513,555	Jan. 30	3052	752	66	710
Brady, Peter L., Hearne, Tex. Cattle-guard	515,140	Feb. 20	1509	479	66	1244
Brady, Peter L., Hearne, Tex. Cattle-guard for railways	526,124	Sept. 18	1385	325	68	1430
Brady, William, Wenona, Ill. Harness-buckle and trace-support	522,876	July 10	1190	297	68	241
Brady, William H. (See Donaldsen, William C., assignor.)						
Braender, Philip. (See Power, Nicholas, assignor.)						
Braennig, Friedrich W. T. (See Elsasser, Oscar O., assignor.)						
Bragdon, Benjamin J., Beloit, Kans. Bicycle-wheel	518,090	Apr. 10	1123	284	67	220
Bragg, Edward F., Boston, Mass. Mixing-mill for rubber	530,157	Dec. 4	134	36	69	1240
Bragg, James R., and J. M. Moyers, Richmond, Va. Air-brake hose-coupling	515,142	Feb. 20	1912	480	66	1244
Bragunier, Frank J., Topeka, Kans. Animal-trap	518,483	Apr. 17	1815	449	67	364
Braham, Harry L., Cincinnati, Ohio. Fountain-pen	528,654	Nov. 6	241	59	69	689
Braham, William T., Manchester, England. Watch-protector swivel	529,360	Nov. 20	1495	359	69	959
Brainard, Austin. (See O'Conner, Edward J., assignor.)						
Brainard, Edwin D., Great Barrington, Mass. Fountain	515,898	Mar. 6	262	61	66	1503
Brainard, Edwin D., Great Barrington, Mass. Cartridge	522,313	July 3	237	62	68	48
Brainard, David, Denver, Colo. Support for bicycles	527,767	Oct. 23	1792	432	69	378
Bralley, Patrick, Oakland, Cal. Sewing-machine needle-threader	529,586	Nov. 20	1920	458	69	1035
Bramall, Sidney, London, England. Bicycle	529,700	Nov. 27	2099	503	69	1078
Braman, Frank R., Saltilloville, Ind. Stovepipe-joint	521,875	June 26	1951	479	67	1608
Bramwell, Joseph W., Camden, N. J. Table for draftsmen, &c	520,630	May 29	2932	708	67	1141
Branch, J. W. (See Thompson, John W., assignor.)						
Brand, James B., Milwaukee, Wis. Conduit electric-railway system	521,010	June 5	463	111	67	1280
Brand, Robert, and W. Diebmann, Oshkosh, Wis. Refrigerator	528,655	Nov. 6	242	60	69	689
Brand, William, Pittsburg, Pa. Boiler-furnace	519,787	May 15	1512	368	67	848
Brandau, George F., Cohoes, N. Y. Car-brake	513,298	Jan. 23	2611	{ 632 633 }	66	593
Brandeberry, Newton J., Swanton, Ohio. Combined dust and water proof protector for shelf goods	515,141	Feb. 20	1910	480	66	1244
Brandenburg, Nicolas C. J., Brussels, Belgium. Manufacture of screws	512,798	Jan. 16	1800	428	66	367
Brander, George, Sutherland, Iowa. Washing-machine	527,264	Oct. 9	958	233	69	193
Brandt, Andrew G., and F. M. Spencer, Scranton, Pa. Hod	524,799	Aug. 21	1421	348	68	952
Brandt, Carl, Cedar Falls, Iowa. Grate	522,190	July 3	6	2	68	3
Brandt, Charles, Jr., et al. (See Marquart, Rodolf, assignor.)						
Brandt, Fred, et al. (See Schneider, George L., assignor.)						
Brandt, George, et al. (See Schneider, George L., assignor.)						
Brandt, Theodor, Quedlinburg, Germany. Machine for cutting and finishing metal strips	519,903	May 15	1692	{ 412 413 }	67	882
Braniff, John A., Kansas City, Mo. Mail-bag hanger	531,360	Dec. 25	2270	541	69	1675
Brankston, Ralph T. (See Noble and Brankston.)						
Branshaw, Albert M., Escanaba, Mich. Curtain	528,071	Oct. 23	2344	566	69	478
Branson, James L., and S. S. Cook, assignors to Branson Machine Company, Philadelphia, Pa. Circular-knitting machine	519,170	May 1	415	101	67	617
Branson Machine Company (See Branson and Cook, assignors.)						
Branstetter, Raper, Wichita, Kans. Lathe-fixture for gear-cutting	516,586	Mar. 13	1409	{ 334 335 }	66	1730
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Dust-collector	527,935	Oct. 23	2095	502	69	432
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Dust-collector	527,936	Oct. 23	2097	503	69	433
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Dust-collector	527,937	Oct. 23	2100	503	69	433
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Combined return-air sieve, purifier, and dust-collector	527,938	Oct. 23	2102	504	69	434
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Dust-collector	527,939	Oct. 23	2105	{ 504 505 }	69	434
Brantingham, Allen C., Toledo, Ohio, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Dust-collector	527,940	Oct. 23	2106	505	69	434
Braren, Edward F., et al. (See Heatb, Walter A., assignor.)						
Brashaw, Moses, et al. (See Walter, John P., assignor.)						
Braucht, George W. (See Severance, Jamison, and Braucht.)						
Braucke, Wilhelm vom, Thimertersbach, near Westig, Germany. Metal brush for dynamos	527,766	Oct. 23	1792	432	69	378
Brauer, John, assignor to Francis Fritsch Manufacturing Company, Cincinnati, Ohio. Malt-grinding mill	522,584	July 10	705	{ 179 180 }	68	154
Braun, Alexander P. (See Jackson and Braun.)						
Braun, Anton, Newport, Ky. Screen-frame for windows, &c	515,814	Mar. 6	139	34	66	1479
Braun, Henry, et al. (See Kleber, Oscar L., assignor.)						
Braun, John, et al. (See Deck, Henry, assignor.)						
Braun, John, et al. (See Lorey, William, assignor.)						
Braun, John F., et al. (See Deck, Henry, assignor.)						
Braun, John F., et al. (See Lorey, William, assignor.)						
Braun, Joseph, Youngstown, Ohio. Air-compressor beer-pump	515,740	Mar. 6	7	2, 3	66	1456
Braun, Julius E. A., Dautschen, near Torgan, Germany. Excavating or dredging machine	517,726	Apr. 3	523	{ 126 127 }	67	101
Braun, William P. M., et al. (See Deck, Henry, assignor.)						
Braun, William P. M., et al. (See Lorey, William, assignor.)						
Brautigam, Joseph, Brooklyn, N. Y. Switching device for street-railway cars	526,481	Sept. 25	2041	486	68	1503
Brawn, Charles. (See Friese-Greene, William, assignor.)						
Bray, Mellen. (See Bertrand, Joseph E., assignor.)						
Bray, Mellen N. (See Pope, Everett M., assignor.)						
Bray, T. N. (See Vallean, James H., assignor.)						
Bray, T. N. (See Vallean, James H., assignor.) (Reissue.)						
Brayton, Richard, assignor to Michigan Fire Ladder and Engine Company, Grand Rapids, Mich. Fire-ladder	517,375	Mar. 27	2751	647	66	2020
Brazzale, William M. (See Neely, George S., assignor.)						
Brazzelle, Benjamin, St. Louis, Mo. Process of and apparatus for smelting ores	529,476	Nov. 20	1727	412	69	1000
Breathwaite, Ernest C., and J. W. Hepworth, Philadelphia, Pa. Self-acting fashioning device for circular-knitting machines	521,098	June 5	618	{ 145 146 }	67	1308
Bredsvold, Paul A., assignor of one-half to L. H. Bonnet, Chicago, Ill. Adjustable stool	516,183	Mar. 13	730	171	66	1605
Breed, Albert H. (See Blaney, Elbridge G., Jr., assignor.)						
Breed, Burritt B., Cincinnati, Ohio. Railway-car switch-operating device	525,253	Aug. 28	2216	539	68	1109

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Breed, De Witt C., Medina, N. Y. Printer's quoin.....	522,504	July 3	558	142	68	110
Breen, Sylvester A., Alexandria, Va. Car-wheel fender.....	518,642	Apr. 24	2087	520	67	426
Breese, Charles P., assignor to Hall Signal Company, New York, N. Y. Automatic electric railway signal system.....	515,648	Feb. 27	2750	685	66	1416
Breithaupt, Ernest T., Natchez, Miss. Combined bait and fishing-tackle box.....	515,899	Mar. 6	264	61	66	1503
Brelsford, William S., Jacksonborough, assignor of one-half to J. H. Webster and T. Dowrey, Hamilton, Ohio. Wheel.....	514,409	Feb. 6	720	183	66	989
Bremer, Hermann, Halberstadt, Germany. Folding snow-shoe.....	526,216	Sept. 18	1561	366	68	1460
Brendel, Michael, New York, N. Y. Metallic lathing.....	516,388	Mar. 13	1079	256	66	1668
Brendon, William E., Plymouth, England. Boning and manufacturing hams.....	511,927	Jan. 2	343	80	66	65
Breneman, Abram A., Brooklyn, N. Y. Muffle-furnace.....	514,698	Feb. 13	1207	300 301	66	1099
Brenkelman, William F. (See Fox, Jacob G., assignor.)						
Brennan, Daniel, Jr., Bayonne, N. J. Grading ores or similar materials.....	529,587	Nov. 20	1922	458	69	1036
Brennan, Robert A. (See Sonntag and Brennan.)						
Brenneisen, John E. (See Dorsey and Brenneisen.)						
Brenner, John W., Beloit, Iowa. Tongue-support.....	515,320	Feb. 27	2231	552	66	1316
Brent, Edwin. (See Brent, Richard and E.)						
Brent, John. (See Brent, Richard and E., assignors.)						
Brent, Richard and E., assignors of one-third to J. Brent, Wilkes-Barré, Pa. Thill-coupling.....	527,010	Oct. 2	554	135	69	105
Broslander, Solomon, <i>et al.</i> (See Taylor, Isaiah H., assignor.)						
Bresnehan, Maurice V. (See Heys, John J., assignor.)						
Bretherton, Sidney E. (See Engelbach and Bretherton.)						
Brett, Victor, assignor to himself and H. A. Appleton, Bangor, Me. Car-coupling.....	516,429	Mar. 13	1139	271	66	1631
Breuil-Phillips Manufacturing Company. (See Phillips, William H., assignor.)						
Breul, Charles. (See Breul, Richard A. and C.)						
Breul, Richard A., Bridgeport, Conn. Chain.....	518,484	Apr. 17	1817	450	67	364
Breul, Richard A., Bridgeport, Conn. Snap-hook.....	518,485	Apr. 17	1818	450	67	364
Breul, Richard A. and C., Bridgeport, Conn.; said C. Breul assignor to said Richard A. Breul. Chain-link.....	530,921	Dec. 18	1469	348	69	1514
Brewer, Albert G., Hopkinton, Mass. Gore-cutting machine.....	527,588	Oct. 16	1499	365	69	306
Brewer, Edward C., Butte, Mont. Washing-machine.....	520,403	May 29	2566	621	67	1075
Brewer, Emmett P., <i>et al.</i> (See Davis, Clifton H., assignor.)						
Brewer, Gilbert T., Hoboken, N. J. Hull for vessels.....	527,657	Oct. 16	1609	388	69	327
Brewer, John B. (See Edens and Brewer.)						
Brewer, Paul C. (See Smith and Geer, assignors.)						
Brewing Improvement Company. (See Jaeger, Gustav L., assignor.)						
Brewis, John J., assignor to Gates Iron Works, Chicago, Ill. Stone-crusher.....	525,401	Sept. 4	148	37	68	1177
Brewster, Flora A., assignor to H. L. Fairchild, Baltimore, Md. Electric belt.....	524,664	Aug. 14	1194	292	68	897
Brewster, Francis W., Bournemouth, England. Adjustably-weighted center-board.....	521,494	June 19	1340	311	67	1472
Bricker, John A., Atlanta, Tex. Watchmaker's tool.....	512,942	Jan. 16	2058	487	66	415
Bricker, Skiles W., Harrisonville, Mo. Hay-press.....	522,960	July 17	1357	336 337	63	288
Bricker, Solomon E., assignor of one-half to O. G. Packett, Arco, Idaho. Clevis.....	518,486	Apr. 17	1818	450	67	365
Brickner, Julius, and A. S. Herr, Tiffin, Ohio. Truss.....	517,639	Apr. 3	369	87	67	72
Bridge & Beach Manufacturing Company. (See Nellis, Emery D., assignor.)						
Bridge, Horace, Chicago, Ill. Car-coupling.....	519,231	May 1	524	126	67	639
Bridgeman, H., <i>et al.</i> (See Smith, Orison M., assignor.)						
Bridgeport Brass Company. (See Blakeslee, Wallace A., assignor.)						
Bridgeport Brass Company. (See Rhind, Frank, assignor.)						
Bridgeport Brass Company. (See Rhind, Frank, assignor.) (Reissue.)						
Bridgeport Chain Company. (See Jorres, Ralph W., assignor.)						
Bridger, Herbert K. (See Scetrini and Cade, assignors.)						
Bridgers, Robert R., <i>et al.</i> (See Whitaker, David W., assignor.)						
Bridges, Michael, Boston, Mass. Valve for pneumatic tires.....	529,588	Nov. 20	1923	458	69	1036
Bridgman, Henry L., Blue Island, Ill. Apparatus for electrodepositing.....	526,482	Sept. 25	2042	486	68	1563
Bridgman, Henry L., Blue Island, Ill. Apparatus for electrodeposition.....	528,586	Nov. 6	104	26	69	665
Bridgman, Henry L., Blue Island, Ill. Apparatus for electrodeposition.....	528,587	Nov. 6	105	26	69	665
Bridgman, Henry L., Blue Island, Ill. Commutator.....	531,406	Dec. 25	2342	558	69	1689
Bridgman, William H., Brooklyn, N. Y. Razor-wiper.....	517,971	Apr. 10	918	229 230	67	188
Brien, James T. and T. R., assignors of one-third to G. F. Rising, Hoosick Falls, N. Y. Soil-pipe.....	518,583	Apr. 24	1989	492	67	410
Brien, Louie J., <i>et al.</i> (See Brien, Theodore R., assignor.)						
Brien, Theodore R. (See Brien, James T. and T. R.)						
Brien, Theodore R., assignor of one-half to G. O. Walrad and L. J. Brien, Hoosick Falls, N. Y. Nipple connection.....	530,679	Dec. 11	1080	262	69	1426
Brîère, Achille, Rouen, France. Arming bicycles for military purposes.....	526,680	Oct. 2	17	4	69	6
Bries, Victor, Fabacher, La. Rotary pump.....	514,060	Feb. 6	131	31	66	873
Brigg, Thomas H., Bradford, England. Means for connecting draft-animals to vehicles.....	517,640	Apr. 3	370	87, 88	67	72
Brigg, Thomas H., Bradford, England. Means for connecting draft-animals to vehicles.....	517,641	Apr. 3	372	88, 89	67	73
Briggs, Arthur E., assignor to O. M. Briggs, Bond Hill, Ohio. Automatic filling device.....	520,557	May 29	2814	679 680	67	1119
Briggs, Charles L., Norton, Mass., assignor to I. J. Boothe, Birmingham, Conn. Machine for driving screws into wood.....	529,701	Nov. 27	2100	503 504	69	1078
Briggs, Charles N., Chicago, Ill. Billiard-cue tip.....	529,775	Nov. 27	2321	529	69	1099
Briggs, Edmund W., Jr., Lyons, Iowa. Chair.....	520,880	Dec. 11	1397	333	69	1485
Briggs, Eli B., Farmers' Valley, assignor of one-half to C. R. Sprague, Smethport, Pa. Milk-pail.....	516,470	Mar. 13	1213	291	66	1694
Briggs, Henry, Hasbrouck, N. J. Chain-gearing.....	528,847	Nov. 6	598	142	69	755
Briggs, Henry, Hasbrouck Heights, N. J., assignor to Goodyear Shoe Machinery Company, Portland, Me. Take-up for shoe-sewing machines.....	518,911	Apr. 24	2550	630	67	511
Briggs, Henry, Hasbrouck Heights, N. J., and C. Dancel, New York, N. Y. Boot or shoe.....	525,974	Sept. 11	1142	259	68	1372
Briggs, Isaac, Middleborough, Mass. Safety device for detaching horses from vehicles in motion.....	524,987	Aug. 21	1744	428	68	1010
Briggs, John N. (See Ryder, David C., assignor.)						
Briggs, Olivia M. (See Briggs, Arthur E., assignor.)						
Briggs, Orlando P., Chicago, Ill. Automatic screw-machine.....	514,441	Feb. 13	765	196 197	66	1015
Briggs, Orlando P., assignor of one-half to A. W. Cooper, Chicago, Ill. Filter.....	526,515	Sept. 25	2090	498	68	1573
Briggs, Orlando P., and W. R. Patterson, assignors to Western Electric Company, Chicago, Ill. Sign-advertising machine.....	531,018	Dec. 18	1639	389	69	1543
Briggs, Orson, St. Louis, Mich. Hay-lifter.....	517,945	Apr. 10	864	218	67	179

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Briggs, Samuel R., assignor to Chicago Automatic Fire Escape and Manufacturing Company, Chicago Ill. Fire-escape	522,703	July 10	900	222 173 174 175 176	68	189
Briggs, Vanrensselaer T., North Lansing, Mich. Wire-fence machine	517,837	Apr. 10	692	168 169 170 171 172	67	149
Briggs, Willett W., assignor to Advance Thresher Company, Battle Creek, Mich. Grain-separator	526,610	Sept. 25	2238	534	68	1600
Briggs, William C., Fayetteville, N. C., assignor to Winston Cigarette Machine Company, of North Carolina. Cigarette-machine	512,150	Jan. 2	696	168 169 170 171 172	66	133
Briggs, William C., Winston, N. C., assignor to Winston Cigarette Machine Company, of North Carolina. Cigarette-machine	512,151	Jan. 2	701	168 169 170 171 172	66	134
Bright, Annie V., <i>et al.</i> (See Bright, William H., assignor.)						
Bright, William H., assignor of eleven-twelfths to P. B. Dunham, J. Anderson, A. V. Bright, F. M. Couden, A. W. Starkey, A. Selzer, D. B. Wilson, A. Rutterer, A. C. Bowman, and E. Dunham, Morrow, Ohio. Multiple gearing	521,133	June 5	676	159	67	1319
Brightly, Charles H., H. M. Fuller, and E. A. Singer, Jr., Philadelphia, Pa. Device for centering transit-instruments over physical points	515,815	Mar. 6	140	34	66	1479
Brightman, Frank E., Cleveland, Ohio. Frictional and positive clutch	516,640	Mar. 20	1505	359	66	1765
Brighton Sign Company. (See Kennedy, Franklin K., assignor.)						
Brill, George M., Philadelphia, Pa. Car-brake	513,229	Jan. 23	2484	600 601 602	66	567
Brill, George M., Philadelphia, Pa. Track-sweeper for railways	513,230	Jan. 23	2488	601 602	66	568
Brill, John A. (See Adams, Walter S., assignor.)						
Brill, John A. (See Lycett, Herbert J., assignor.)						
Brill, John A., Philadelphia, Pa. Entrance-guard for open cars	531,407	Dec. 25	2343	559	69	1689
Brinkerhoff, Henry M. (See Macloskie and Brinkerhoff.)						
Brindle, Robert, assignor of one-half to J. Pohlman, Paterson, N. J. Spring-hinge	519,833	May 15	1579	387	67	861
Brinkenkamp, Henry J. (See Malley, James J., assignor.)						
Brinkerhoff, Warren E., <i>et al.</i> (See Schwein, Herman, assignor.)						
Brinkerhoff, Warren M., Auburn, N. Y. Disinfecting apparatus	523,803	July 31	2840	706	68	591
Brinkman, Sebastian G., New York, N. Y. Fireproof partition	518,050	Apr. 10	1063	268	67	210
Brinkman, Sebastian G., assignor to R. H. Bigelow, New York, N. Y. Ceiling or floor	530,064	Nov. 27	2747	659	69	1200
Brinkmann, Heinrich, Munich, Germany. Car-lock	528,221	Oct. 30	2614	630	69	541
Brinser, Eli H. G., Elizabethtown, Pa. Ratchet-washer nut-lock	530,881	Dec. 11	1399	333	69	1485
Brinsmade, James R. (See Johnson, Charles H., assignor.)						
Brintnall, Thomas M., Medina, Ohio. Vise	514,614	Feb. 13	1069	267	66	1072
Brinton, George, assignor of one-half to J. B. Bailey, Harrisburg, Pa. Can or vessel	529,677	Nov. 20	2057	493	69	1061
Briony, Thomas P., assignor of one-fourth to W. D. Spillan, South Bethlehem, Pa. Puzzle	520,155	May 22	2145	522	67	978
Brisco, Charles N., <i>et al.</i> (See Rogginger, John, assignor.)						
Brisco, Charles N., Chicago, Ill. Bottle-stopper	525,883	Sept. 11	997	225	68	1345
Bristol, Charles B., assignor to W. & E. T. Fitch Company, New Haven, Conn. Snap-hook	519,524	May 8	1074	257	67	754
Bristol, Edgar H. (See Bristol, William H. and E. H.)						
Bristol Novelty Company. (See Haire, William H., assignor.)						
Bristol, Theodore L., Ansonia, Conn. Device for tradesmen's use	527,589	Oct. 16	1501	365	69	307
Bristol, William H., Hoboken, N. J. Pressure-gage	514,255	Feb. 6	487	119	66	944
Bristol, William H., Hoboken, N. J. Recording steam-pressure gage	514,257	Feb. 6	489	120	66	945
Bristol, William H., Hoboken, N. J. Temperature-compensating device	514,258	Feb. 6	490	120	66	945
Bristol, William H., Hoboken, N. J., and E. H. Bristol, Naugatuck, Conn. Bourdon pressure-gage	514,256	Feb. 6	488	119 120	66	944
Britt, Henry H., Clinton, N. C. Lumber-gage	524,930	Aug. 21	1649	403	68	991
Britt, Lucas P., New York, N. Y. Fastening for horseshoes	512,358	Jan. 9	1036	253	66	208
Britton, Charles S. (See Britton, Clarence R., assignor.)						
Britton, Charles S., Cleveland, Ohio. Carbon-mold	511,750	Jan. 2	17	5	66	6
Britton, Charles S., Cleveland, Ohio. Carbon-machine	511,751	Jan. 2	18	5	66	6
Britton, Clarence R., assignor to C. S. Britton, Cleveland, Ohio. Tin-plating machine	518,342	Apr. 17	1564	369	67	318
Britton, Horace E., Stoughton, Mass. Tool-holder	516,294	Mar. 13	908	214	66	1639
Broadbent, James E., assignor, to R. Broadbent & Son, Stalybridge, England. Machinery or apparatus for winding yarn	512,860	Jan. 16	1922	454	66	391
Broadbent & Son, Robert (See Broadbent, James E., assignor.)						
Broadbent, Wallace L. (See Beals, Joseph J., assignor.)						
Broadfoot, Thomas W., Honey Grove, Tex. Quilting-frame	529,640	Nov. 20	2003	479	69	1050
Broadhurst, William H. (See Jacobs, Jonathan, assignor.)						
Broadwell, Edward C., assignor to M. J. Grier, Philadelphia, Pa. Plating metals with aluminum	527,478	Oct. 16	1324	69	67	276
Broach, David W., Pepin, Wis. Concave and feed-board for thrashing-machines	520,725	May 29	3100	750	67	1172
Brock, Andrew L., Lockhart, Tex. Disk cultivator	526,962	Oct. 2	479	118	69	90
Brock, Andrew T. (See McKenzie and Brock.)						
Brock, Edward E., assignor of one-half to J. K. Partman, Bentonville, Ark. Organ	523,322	July 24	1987	499 500	68	421
Brock, Fenelon B. (See Royer, Louis C., assignor.)						
Brock, Fenelon B., Washington, D. C. Automatic train-brake	513,872	Jan. 30	3568	878	66	807
Brock, Fenelon B., Washington, D. C. Carriage-axle lubricator	514,905	Feb. 20	1550	888	66	1178
Brock, Ivor E. (See McPhee and Brock.)						
Brock, Matthias, Boston, Mass., assignor to McKay & Copeland Lasting Machine Company, Portland, Me. Tack-driving implement	516,074	Mar. 6	550	128	66	1555
Brock, William E., Plainfield, N. J. Toggle-press	517,092	Mar. 27	2257	539	66	1928
Brock, William H., Brooklyn, N. Y. Fender for street-cars	515,728	Feb. 27	2883	719 720	66	1442
Brock, William H., Brooklyn, N. Y. Fender for street-cars	531,258	Dec. 18	2079	497	69	1623
Brockbank, Henry M., Brooklyn, N. Y. Section-insulator	511,928	Jan. 2	344	80	66	65
Brockhausen, Friedrich. (See Brockhausen, Wilhelm and F.)						
Brockhausen, Wilhelm and F., Riga, Russia. Adjustable bearing for connecting-rods	519,492	May 8	1001	242	67	741
Brockhausen, Wilhelm and F., Riga, Russia. Adjustable bearing for connecting rods or links	522,335	July 3	274	72	68	55
Brockie, James, London, England. Electric-arc lamp	529,240	Nov. 13	1286	309	69	899
Brocklehurst, Herbert, assignor of one-half to H. Constien, London, England. Railway signaling by means of detonating or explosive signals	525,584	Sept. 4	445	106 107	68	1234
Brockschmidt, August, Pierre City, Mo. Harrow	517,137	Mar. 27	2355	555	66	1942
Brockway, Adna F., Pasadena, Cal. Watchmaker's calipers	520,558	May 29	2816	680	67	1120

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Brocq, François A., Paris, France. Electricity-counter.....	523,566	July 24	2409	{ 603 604 }	68	496
Broderick, John, Fulda, Minn. Device for warming vehicles.....	523,567	July 24	2412	604	68	497
Brodie, William. (See Pringle and Brodie.)						
Brodie, William H. (See Cook, John H., assignor.)						
Brodie, William H., Brooklyn, N. Y. Device for operating sliding doors.....	531,150	Dec. 18	1880	446	69	1588
Brodie, William H., Brooklyn, N. Y. Trolley-track.....	531,151	Dec. 18	1884	446	69	1588
Brodin, John A., Chicago, Ill. Automatic organ-player.....	523,829	July 31	2383	716	68	599
Brodrick, John, New York, N. Y. Manufacture of stencil-sheets.....	525,675	Sept. 4	595		68	1260
Brodt, Benjamin F. F. (See Winchester, Clement H., assignor.)						
Broeg, Conrad, St. Louis, Mo. Meat-cutter.....	517,377	Mar. 27	2754	{ 647 648 }	66	2020
Broer, Fred. H. (See Dillon, James A., assignor.)						
Broesquin, Henry W., St. Louis, Mo. Vehicle-hub.....	516,471	Mar. 13	1215	291	66	1695
Brogan, Anthony D., and A. M. Malloch, Glasgow, Scotland. Apparatus for rolling glass.....	522,961	July 17	1358	337	68	289
Brogan, Joseph. (See Hoffmann and Brogan.)						
Broich, Joseph. (See Pearce and Broich.)						
Brokaw, Isaac, assignor of one-half to P. D. Wells, Litchfield, Ill. Siphon oil-can.....	525,975	Sept. 11	1142	239	68	1372
Brombacher, Emil, assignor of two-thirds to C. Floerl and E. F. Stein, Buffalo, N. Y. Railway-switch.....	527,547	Oct. 16	1433	349	69	295
Bromell, Alfred E. G. (See Lawrence and Bromell.)						
Bromley, Daniel W. (See Schneider and Bromley.)						
Bromley, James M., Plattsburg, N. Y. Vehicle-gear.....	523,066	July 17	1529	382	68	320
Brong, George W., Milwaukee, Wis. Check-controlled game apparatus.....	518,875	Apr. 24	2481	{ 614 615 }	67	498
Bronner, Edmond D., Detroit, Mich., assignor to Gould Coupler Company, Buffalo, N. Y. Car-coupling.....	520,765	June 5	6	2	67	1198
Bronson, Edward, assignor of one-half to E. Scales, London, England. Trunk, portman-teau, &c.....	522,146	June 26	2483	{ 595 596 }	67	1701
Bronson, Charles E., and L. Heiland, Defiance, Ohio. Fence-post.....	513,451	Jan. 23	2354	700	66	638
Bronson, Charles M., Quincy, Ill. Pressure-gage register.....	512,799	Jan. 16	1802	428	66	368
Bronson, George A., St. Louis, Mo. Dental napkin-holder.....	531,093	Dec. 18	1774	423	69	1567
Bronson, George A., St. Louis, Mo. Dental napkin-holder.....	531,094	Dec. 18	1775	423	69	1568
Bronson, William C. (See Tyler, Coe, assignor.)						
Brooke, Isaac, Pottstown, assignor to Floyd, Wells & Co., Royersford, Pa. Hot-air attachment for stoves.....	531,502	Dec. 25	2522	603	69	1723
Brooke, Richard T., Paris, Canada. Boiler-tube cleaner.....	523,703	July 31	2500	659	68	558
Brooke, Robert G., Blackpool, England. Injector.....	523,926	July 31	3055	763	68	631
Brooke, Simpson & Spiller. (See Green, Arthur G., assignor.)						
Brooke, William E., Trenton, N. J., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator.....	523,101	July 17	1585	{ 397 398 }	68	332
Brooke, William E., Trenton, N. J., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator.....	523,102	July 17	1589	{ 398 399 }	68	333
Brooke, William M., New York, assignor to L. C. Benson, Brooklyn, N. Y. Traveling crane.....	528,248	Oct. 30	2665	642	69	551
Brookens, Harry C., assignor of one-half to T. S. Brookens, Bloomington, Wis. Land-pulverizer.....	518,363	Apr. 17	1620	399	67	329
Brookens, Harry C., and L. Bohringer, Bloomington, Wis. Hame.....	528,919	Nov. 13	746	175	69	803
Brookens, T. S. (See Brookens, Harry C., assignor.)						
Brookes, Charles B. (See Lumley, Edwin J., assignor.)						
Brooking, William, River, Ind. Car-coupling.....	521,699	June 19	1679	394	67	1534
Brookman, Alfred, New York, N. Y. Apparatus for printing on glass, &c.....	526,557	Sept. 25	2153	515	68	1584
Brookmire, James H., Jr. (See Steedman and Brookmire.)						
Brookmire, James H., Jr., St. Louis, Mo. Combined music stand and case.....	515,649	Feb. 27	2753	686	66	1416
Brooks, Alfred J., Chester, Pa. Calking vessels.....	527,169	Oct. 9	803	195	69	164
Brooks, David, Jr., Philadelphia, Pa., assignor to Electric Cable Construction and Maintenance Company, of Pennsylvania. Means for introducing insulating material into conduits.....	519,171	May 1	418	101	67	618
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	512,274	Jan. 9	900	218	66	182
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	520,389	May 22	2533	612	67	1052
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	530,390	May 22	2534	612	67	1052
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	521,134	June 5	678	159	67	1319
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	521,135	June 5	679	159	67	1320
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	521,136	June 5	681	160	67	1320
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	521,137	June 5	683	160	67	1320
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	521,757	June 19	1798	427	67	1555
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	521,758	June 19	1800	427	67	1555
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	524,674	Aug. 14	1210	295	68	900
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	524,675	Aug. 14	1211	296	68	901
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	524,676	Aug. 14	1213	296	68	901
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Snap-seal.....	524,974	Aug. 21	1713	420	68	1003
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	524,975	Aug. 21	1715	422	68	1003
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Snap-seal.....	526,217	Sept. 18	1562	366	68	1460
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	526,218	Sept. 18	1564	367	68	1460
Brooks, Edward J., East Orange, N. J., assignor to E. J. Brooks & Company, New York, N. Y. Seal.....	529,318	Nov. 13	1427	343	69	926
Brooks, Frank M., Brooklyn, N. Y. Gas-lighting attachment.....	524,054	Aug. 7	140	31	68	688
Brooks, Frank M., and C. J. Wolfreys, Brooklyn, assignors to J. L. Vosburgh, Buffalo, N. Y. Gas-burner regulator.....	514,143	Feb. 6	267	66	66	904

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Brooks, Fred P. (See Walker, Randall W., assignor.)						
Brooks, Frederick P., Oxford, N. Y. Punching-tool.....	519,626	May 8	1247	299	67	785
Brooks, James W., trustee. (See Fairfield, Hadley P., assignor.)						
Brooks, James W., trustee. (See Heys, John J., assignor.)						
Brooks, John, assignor to Potter Printing Press Company, Plainfield, N. J. Cylinder printing-machine.....	527,941	Oct. 23	2108	506	69	435
Brooks, John, assignor to Potter Printing Press Company, Plainfield, N. J. Bed and cylinder printing-machine.....	529,850	Nov. 27	2357	562 } 563 } 504 } 505 }	69	1125
Brooks, John, Plainfield, N. J., assignor to C. Potter, Jr., H. W. Fish, J. M. and D. E. Tittsworth, New York, N. Y. Cylinder printing-machine.....	529,702	Nov. 27	2103	505	69	1079
Brooks, Miles W., Atlanta, Ga. Puzzle.....	528,141	Oct. 30	2478	600	69	517
Brooks, Mott B., Oak Point, N. Y. Portable barrel pump.....	523,757	July 31	2758	685	68	575
Brooks, Robert A., Denver, Colo. Hydrant.....	519,660	May 8	1301	311	67	795
Brooks, Sewell A., Strykersville, N. Y. Painter's scaffold.....	520,389	Dec. 4	553	137	69	1316
Brooks, Sewell A., Strykersville, N. Y. Painting apparatus.....	531,433	Dec. 25	2387	571	69	1698
Brooks, Stephen H., assignor to E. A. Peirce, New York, and J. O. Cox, Brooklyn, N. Y. Dental handpiece.....	518,175	Apr. 10	1262	318	67	246
Brooks, Thomas, M. Reilly, and W. Rndkins, Peterborough, Canada. Hot-water boiler for heating purposes.....	528,626	Nov. 6	179	44	69	678
Brooks, Wiley S., and T. M. McDonough, Montgomery, Ala. Car-coupling.....	514,587	Feb. 13	1024	258	66	1063
Broom, Henry, assignor to A. Whiteley, Springfield, Ohio. Extension-piece for combined poles and shafts.....	522,962	July 17	1359	337	68	269
Broom, Henry, A. Whiteley, and J. G. Hinckley, assignors to A. Whiteley, Springfield, Ohio. Traction-wheel.....	514,061	Feb. 6	132	31	66	879
Broomhead, John W. (See Bell, Broomhead, and Jones.)						
Brotherhood, Peter, London, England. Air-compressor.....	515,282	Feb. 20	2145	533	66	1229
Brough, William, Jr., Warren, Tex. Logging-truck.....	531,503	Dec. 25	2523	603	69	1723
Broughton, Pulaski B. (See Dudley, Elliott R., assignor.)						
Brousseau, George, Marion, Iowa. Device for blowing bubbles.....	513,479	Jan. 30	2913	717	66	684
Brower, George L. (See Gist, Lane, assignor.)						
Brower, John. (See Nichols, Emory I., assignor.)						
Brown, Albert. (See Courtney, William P., assignor.)						
Brown, Alexander E., Cleveland, Ohio. Grip-pulley.....	524,478	Aug. 14	887	219	68	841
Brown, Alexander T., Syracuse, N. Y. Ejector mechanism for breakdown guns.....	513,480	Jan. 30	2914	717 } 718 }	66	684
Brown, Alexander T., Syracuse, assignor to Union Typewriter Company, New York, N. Y. Type-writer inking-ribbon.....	528,142	Oct. 30	2479	600	69	517
Brown, Alford A., San Francisco, assignor of one-half to O. J. Muchmore and D. P. N. Little, Los Angeles, Cal. Self-locking nut.....	525,837	Sept. 11	909	203	68	1329
Brown, Alfred T., assignor to Warner Elevator Manufacturing Company, Cincinnati, Ohio. Controlling device for elevators.....	512,677	Jan. 16	1570	378	66	324
Brown, Anderson W., Rhineland, Wis. Logging apparatus.....	525,944	Sept. 11	1081	246	68	1360
Brown, Arthur G., Bolton, England. Steam-engine.....	514,700	Feb. 13	1211	302	66	1099
Brown, Arthur G., Bolton, England. Steam-engine.....	514,701	Feb. 13	1213	302	66	1100
Brown, Arthur G., Bolton, England. Steam-engine.....	514,747	Feb. 13	1294	322	66	1115
Brown, Arthur G., Elmira, N. Y. Pill-machine.....	519,525	May 8	1075	257	67	755
Brown, B. B. (See Clark, William H., assignor.)						
Brown & Bailey. (See Craw, Joseph T., assignor.)						
Brown, Benjamin B. (See Clark, William H., assignor.)						
Brown, Benjamin P., et al. (See Dobbins, Douglas, assignor.)						
Brown & Besly, Incorporated. (See Brown, Reuben L., assignor.)						
Brown Brothers Manufacturing Company. (See Gadey, Charles H., assignor.)						
Brown, Charles D., Ames, Iowa. Clock striking apparatus.....	517,838	Apr. 10	696	176	67	150
Brown, Charles E. L., Baden, Switzerland. Alternating-current motor.....	515,900	Mar. 6	265	62	66	1503
Brown, Charles F. (See Ethridge and Waite, assignors.)						
Brown, Charles F., Yarmouth, Canada. Coin-operated telephone-switch.....	513,299	Jan. 23	2613	633	66	593
Brown, Charles F., and P. G. Welty, Yonkers, N. Y. Combined drawer-ejector and lock for cash-registers.....	514,062	Feb. 6	134	32	66	879
Brown, Charles J., Cleveland, Ohio. Clothes-line fastener.....	529,703	Nov. 27	2106	505	69	1079
Brown, Charles M., Chicago, Ill. Machine for soldering.....	522,778	July 10	1055	260 } 261 }	68	215
Brown, Charles N., Boston, assignor of one-half to H. W. Windram, Needham, Mass. Adjustable take-up for cordage-machines.....	514,615	Feb. 13	1071	267	66	1072
Brown, Charles T. (See Walther, Theodore A., assignor.)						
Brown, Charles W., Mazon, Ill. Lock.....	523,654	July 31	2558	641	68	541
Brown, Charles W., Chicago, Ill. Mechanical boiler-cleaner.....	526,853	Oct. 2	299	72, 73	69	57
Brown, Charles W., assignor to Bell Telephone Company of Canada, Limited, Montreal, Canada. Plug for establishing electrical connections.....	528,529	Nov. 6	12	5	69	648
Brown, Charlie E., Stayton, Oreg. Motor or pump.....	522,102	June 26	2400	576 } 577 }	67	1685
Brown, Clarence D., et al. (See Stark, James M., assignor.)						
Brown, Clarence L., Canfield, Ohio. Animal-trap.....	527,044	Oct. 9	614	148	69	130
Brown & Co., L. W. (See Gay, Channcey W., assignor.)						
Brown, Cyril P., Spring Lake, Mich. Music-leaf turner.....	527,658	Oct. 16	1610	388 } 389 }	69	327
Brown, David, New Haven, Conn. Dress-form.....	524,242	Aug. 7	460	108	68	745
Brown, David, assignor, by mesne assignments, to J. W. Downs, New Haven, Conn. Sewing-machine.....	517,376	Mar. 27	2753	647	66	2020
Brown, Davies, et al. (See Fairbank and Meach, assignors.)						
Brown, Davis, assignor of one-half to Decatur Leader Manufacturing Company, Decatur, Ill. Re-press brick-machine.....	518,643	Apr. 24	2088	520 } 521 }	67	427
Brown, Edward, Philadelphia, Pa. Pyrometer.....	520,875	June 5	217	49	67	1237
Brown, Edward H., Salem, assignor to Magnetic Electric Company of West Virginia, Boston, Mass. Closed-conduit electric railway.....	516,626	Mar. 13	1482	352	66	1745
Brown, Edward L., Spotswood, Va. Ball-bearing for vehicles.....	527,659	Oct. 16	1613	389	69	328
Brown, Edward L., San Francisco, Cal. Penholder.....	529,062	Nov. 13	977	230	69	844
Brown, Edwin, Worcester, Mass., assignor to Flexible Door and Shutter Company, Worcester, Mass., and Portland, Me. Flexible door.....	528,358	Oct. 30	2849	690	69	584
Brown, Edwin L. (See Wood, James C., assignor.)						
Brown, Egbert T., and W. W. Olcott, Buffalo, N. Y. Vending-machine.....	515,741	Mar. 6	8	3, 4	66	1456
Brown, Fannie W. (See Brown, Lester B., assignor.)						
Brown, Frank, Cincinnati, Ohio. Railway-switch.....	517,727	Apr. 3	525	127	67	102
Brown, Frank J., A. and S. Allen, Halstead, Kans. Double-acting pump.....	530,922	Dec. 18	1470	348	69	1514
Brown, Frank J., A. and S. Allen, Halstead, Kans. Transmitting-gear for windmills.....	531,504	Dec. 25	2524	603	69	1723

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Brown, Frederick H., Chicago, Ill. Magnetic telephone.....	523,927	July 31	3057	763	68	632
Brown, George, Long Island City, N. Y. Attachment for musical instruments.....	514,259	Feb. 6	491	{ 120 121 }	66	945
Brown, George, Long Island City, N. Y. Combined brake and electric switch for street-railway cars.....	525,782	Sept. 11	799	184	68	1310
Brown, George A., Muskegon, Mich. Electric elevator-brake.....	515,281	Feb. 20	2143	{ 532 533 }	66	1288
Brown, George A., assignor to Shaw Electric Crane Company, Muskegon, Mich. Rheostat.....	515,280	Feb. 20	2142	532	66	1288
Brown, George F., Philadelphia, Pa. Coupling for water-closet bowls.....	522,750	July 10	1010	250	68	206
Brown, George F., Jr., and G. P. Hill, Chicago, Ill., assignors to Wickes Refrigerator Car Company, Rochester, N. Y. Ventilator for refrigerator-cars.....	524,083	Aug. 7	192	43	68	697
Brown, George W., Deering, Me. Commutator-brush.....	518,913	Apr. 24	2552	631	67	511
Brown, Harold P., New York, N. Y. Electric-motor car.....	518,221	Apr. 17	1362	{ 339 340 341 }	67	282
Brown, Harold P., New York, N. Y. Bolt-lock.....	522,287	July 3	197	53	68	40
Brown, Harold P., assignor to Edison General Electric Company, New York, N. Y. Electric motor.....	518,561	Apr. 17	1942	{ 480 481 }	67	326
Brown, Harold P., assignor to Edison General Electric Company, New York, N. Y. Armature for electric motors.....	518,562	Apr. 17	1948	481	67	387
Brown, Henry H., New York, N. Y. Dumping-car.....	529,108	Nov. 13	1051	253	69	857
Brown, Henry R., Greenville, Tenn. Baking-powder can and measure.....	523,195	July 17	1777	446	68	365
Brown, Henry S. (See Orcutt, Wesley G., assignor.)						
Brown, Herbert B., et al. (See Bowley, George J., assignor.)						
Brown, Herbert P., Minneapolis, Minn. Action-regulator for pianos.....	515,279	Feb. 20	2140	532	66	1288
Brown, Horace F., Chicago, Ill. Ore-roasting furnace.....	519,317	May 8	687	{ 168 169 170 }	67	684
Brown, Isaac A., Toledo, Ohio. Insulating-thimble.....	515,321	Feb. 27	2233	553	66	1317
Brown, James M., et al. (See Bow, Richard, assignor.)						
Brown, James O., assignor to National Chain Gear Company, Boston, Mass. Drive-chain.....	525,254	Aug. 28	2217	540	68	1109
Brown, James R., Cowgill, assignor of one-half to W. A. Brown, Laclede, Mo. Spring-bed.....	511,993	Jan. 2	441	103	66	84
Brown, James S., Eureka, Cal. Neck-yoke.....	527,660	Oct. 16	1614	389	69	328
Brown, Jeannette P., Salt Lake City, Utah Ter. Life-preserver.....	531,505	Dec. 25	2525	604	69	1724
Brown, Jesso H., and H. W. Smith, assignors to Rochester Machine Screw Company, Rochester, N. Y. Nut-milling machine.....	525,313	Aug. 28	2308	{ 560 561 562 }	68	1129
Brown, John, Weston, Canada. Clothes-drier.....	526,889	Oct. 2	364	91	69	66
Brown, John J., Baltimore, Md. Tubular boiler.....	521,150	June 12	704	{ 164 165 }	67	1337
Brown, John P., Walcott, Ind. Frame for hay-stacks.....	529,589	Nov. 20	1924	459	69	1036
Brown, John S., Galveston, Tex. Handle for pans, tubs, &c.....	514,410	Feb. 6	721	183	66	989
Brown, John W., Jr., Philadelphia, Pa. Cherry-stoner.....	521,011	June 5	466	111	67	1280
Brown, John W., Jr., assignor to Enterprise Manufacturing Company, Philadelphia, Pa. Drilling-machine.....	518,176	Apr. 10	1264	318	67	246
Brown, John W., Burlington, Iowa. Flush lounge-hinge.....	526,019	Sept. 18	1214	279	68	1397
Brown, John W., assignor to Collins Plow Company, Quincy, Ill. Harrow.....	518,912	Apr. 24	2552	{ 630 631 }	67	511
Brown, Joseph H. (See Easingwood, Arthur L., assignor.)						
Brown, Joseph H., Mooresville, N. C. Well-tiling coupler.....	529,776	Nov. 27	2222	530	69	1099
Brown, Joseph J. (See Grabler and Brown.)						
Brown, Joseph F., Somerset, Ky. Automatic air-brake.....	520,391	May 22	2535	613	67	1053
Brown, Julius C., Santa Barbara, Cal. Nut-lock.....	521,845	June 26	1935	464	67	1509
Brown, Julius C., Santa Barbara, Cal. Nut-lock.....	522,585	July 10	706	180	68	154
Brown, Julius C., Santa Barbara, Cal. Master-key for nut-locks.....	524,084	Aug. 7	196	43	68	697
Brown, Leander C., Boston, Mass. Drawer-lock.....	528,713	Nov. 6	332	81	69	707
Brown, Lester B., assignor to F. W. Brown, Bradford, Pa. Process of and bath for hardening mold-plates.....	523,620	July 24	2502		68	513
Brown, Mathias, Madisonville, Tex. Corn or cotton planter.....	530,255	Dec. 4	816	79	69	1273
Brown, Mercileus P., Jonesborough, Ark. Spider-frame fire-escape.....	516,517	Mar. 13	1301	310	66	1710
Brown, Morris H., Yonkers, N. Y. Rail or bar bender.....	520,876	June 5	219	49	67	1237
Brown, Norman E., assignor of three-fourths to M. C. Barnes, E. N. Hatch, J. E. Klund, and J. Lindt, St. Joseph, Mich. Veneer-cutting machine.....	528,120	Oct. 23	2434	589	69	494
Brown, Orlando. (See Grant, Charles N., assignor.)						
Brown, Oscar E., Buffalo, N. Y. Horseshoe.....	524,055	Aug. 7	140	32	68	688
Brown, Perry, Sharonville, Ohio. Draw-bar mechanism.....	515,044	Feb. 20	1758	{ 443 444 }	66	1215
Brown, Perry, Sharonville, Ohio. Trace-fastening.....	526,681	Oct. 2	18	5	69	6
Brown, Philip C., Washington, D. C. Car-coupling. (Reissue).....	11,403	Feb. 6	750	191	66	995
Brown, Philip C., Washington, D. C. Car-coupling.....	519,300	May 1	646	158	67	662
Brown, Philip C., Brooklyn, N. Y. Combined stool and foot-rest.....	518,935	May 1	2	1	67	537
Brown, Reuben H., New Haven, Conn. Expansion-bit.....	530,923	Dec. 18	1472	349	69	1514
Brown, Reuben L., assignor to Brown & Besly, Incorporated, Chicago, Ill. Manufacturing indexes.....	529,477	Nov. 20	1731	412	69	1000
Brown, Richard H., St. Louis, Mo. Locomotive or other furnace.....	528,588	Nov. 6	106	27	69	666
Brown, Robert H. (See Chambers, Josephus C., assignor.)						
Brown, Robert J., and J. E. Register, Logansport, La. Combined cotton chopper and cultivator.....	529,061	Nov. 13	973	230	69	843
Brown, Robert P., assignor to himself and E. L. Bailey, Philadelphia, Pa. Paper box.....	525,585	Sept. 4	448	107	68	1234
Brown, Robert P., assignor to himself and E. L. Bailey, Philadelphia, Pa. Paper box.....	525,586	Sept. 4	449	107	68	1235
Brown, Samuel, assignor to S. C. Rogers, Philadelphia, Pa., and C. W. Havemeyer, New York, N. Y. Gate and registering mechanism.....	522,191	July 3	8	2, 3	68	4
Brown, Samuel G. (See Brown, William A. and S. G.)						
Brown, Samuel H., et al. (See Webster, George, assignor.)						
Brown & Sharpe Manufacturing Company. (See Boynton, John W., assignor.)						
Brown & Sharpe Manufacturing Company. (See Parks, Edward H., assignor.)						
Brown, Solomon O., Marshfield, Mo. Ballot-box.....	511,994	Jan. 2	442	104	66	84
Brown, Thomas H., Milwaukee, Wis. Hunting-wagon.....	512,273	Jan. 9	897	217	66	182
Brown, Thomas J., St. Louis, Mo. Folding ironing-table.....	512,576	Jan. 9	1404	339	66	277
Brown, Thomas M., Cleveland, Ohio. Electric-railway trolley.....	520,156	May 22	2146	523	67	978
Brown, Thomas S., assignor to Adriance, Platt & Company, Poughkeepsie, N. Y. Mower.....	522,314	July 3	239	63	68	48
Brown, Tristram D. (See Greene, John W., assignor.)						
Brown, Walter F., Providence, R. I. Valve-gear for steam-engines.....	524,306	Aug. 14	575	{ 136 137 }	68	785

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Brown, Walter M. (See Lang, Henry H., assignor.)						
Brown, William, <i>et al.</i> (See Miller, Alexander, assignor.)						
Brown, William A. (See Brown, James R., assignor.)						
Brown, William A. and S. G., Lynn, Mass. Stall-door	528,849	Nov. 6	600	142	69	755
Brown, William B., assignor of one-half to F. M. North, Labadie, Mo. Kuetter for bar-vesters	531,152	Dec. 18	1885	447	69	1588
Brown, William J., Philadelphia, Pa. Staple-holder	514,699	Feb. 13	1209	301	66	1099
Brown, William K., <i>et al.</i> , executors. (See Buehler, Rudolph R., assignor.)						
Brown, William M., assignor to Johnson Company, Johnstown, Pa. Joint for and method of joining metal bars	526,434	Sept. 25	1965	468	68	1550
Brown, William R. (See Ellis, Abram, assignor.)						
Brown, Winsor L., San Francisco, Cal. Electric gas-lighter	513,300	Jan. 23	2614	633	66	593
Browne, Arthur B. (See Kittson and Browne.)						
Browne, Arthur B., Cambridge, Mass., assignor to American Lead Company, Kittery, Me. Treating lead hydrate produced by electrolysis	527,830	Oct. 23	1896		69	396
Browne, Arthur S. (See Robinson, Charles H., assignor.)						
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental engine	515,816	Mar. 6	142	34	66	1479
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	519,756	May 15	1452	351	67	836
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	519,757	May 15	1455	352	67	837
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	519,758	May 15	1457	353	67	837
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	519,883	May 15	1664	405	67	876
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	519,884	May 15	1666	405	67	877
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Pulley-block	519,984	May 15	1823	447	67	906
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	520,947	June 5	359	87	67	1262
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	520,948	June 5	360	88	67	1263
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	521,256	June 12	896	211	67	1372
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	521,257	June 12	898	212	67	1373
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Head-rest	522,192	July 3	11	3, 4	68	4
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Adjustable bracket for dental engines	522,552	July 3	637	162	68	125
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Adjustable bracket	526,020	Sept. 18	1215	280	68	1397
Browne, Arthur W., Prince's Bay, N. Y., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental chair	529,641	Nov. 20	2004	479	69	1050
Browne & Dowd Manufacturing Company. (See Barnes, William A., assignor.)						
Browne, Frank E., Los Angeles, Cal. Appliance for heating, illuminating, or culinary purposes	521,201	June 12	796	187	67	1354
Browne, George W., and J. W. Little, Brooklyn, N. Y. Motor	528,461	Oct. 30	3034	736	69	616
Browne, Herbert R., Cadishead, assignor to himself, and M. Guthrie, Liverpool, England. Making soda crystals	516,075	Mar. 6	552		66	1556
Browne, Michael C., Holyoke, Mass. Furnace	514,906	Feb. 20	1551	388	66	1178
Browne, Phillip, Bootle, near Liverpool, England. Feed-water heater and regulator	516,518	Mar. 13	1307	310	66	1711
Browne, Thomas I., St. Johnsbury, Vt. Metal tapping or drilling machine	517,023	Mar. 27	2153	510	66	1903
Browne, William F., New York, N. Y. Process of and apparatus for making gas	525,131	Aug. 28	2016	492	68	1074
Browne, William F., New York, N. Y. Balanced steam-actuated valve	531,434	Dec. 25	2358	571	69	1698
Browne, William H., Ticonderoga, N. Y. Waterproofing compound	528,848	Nov. 6	509		69	755
Brownell, Thomas K., Clinton, N. J. Combined book and index	512,943	Jan. 16	2059	498	66	415
Brownell, Wilnot A., Boston, Mass., and J. B. Seager, Hancock, Mich. Electric burglar-alarm	528,589	Nov. 6	108	27	69	666
Brownhill Company. (See Brownhill, Ernest, assignor.)						
Brownhill, Ernest, London, England, assignor to Brownhill Company, Chicago, Ill. Gas-controller	516,798	Mar. 20	1763	416	66	1811
Browning, Charles E., Toledo, Ohio. Fountain-pen	516,345	Mar. 13	988	235	66	1654
Browning, Frank. (See Phillips, Fleming, and Browning.)						
Browning, Frank W. (See Allen, Walter L., assignor.)						
Browning, Harrison M. (See Honeck and Browning.)						
Browning, John M., Ogden, Utah Ter. Breech-loading gun	513,301	Jan. 23	2615	633	66	594
Browning, John M., Ogden, Utah Ter., assignor to Winchester Repeating Arms Company, New Haven, Conn. Magazine gun	524,702	Aug. 21	1258	310	68	922
Brownlee, Joseph P., Galva, Ill. Order-book	522,963	July 17	1360	337	68	289
Brownlee, Joseph P., assignor to M. H. Brownlee, Galva, Ill. Board roof	530,009	Nov. 27	2650	636	69	1182
Brownlee, Marian H. (See Brownlee, Joseph P., assignor.)						
Brownlees, George, Narracoorte, South Australia. Thill-coupling	529,590	Nov. 20	1925	459	69	1036
Brownley, Patrick, St. John, Canada. Injector	513,378	Jan. 23	2732	664	66	615
Brown's Lumber Company. (See Hicks, Horace D., assignor.)						
Brownstein, Benjamin, Philadelphia, Pa. Gripper for cable railways	528,359	Oct. 30	2851	691	69	584
Brubaker, James W., Tracy, Iowa. Wagon-brake	526,611	Sept. 25	2240	534	68	1601
Brubaker, William, Stoyestown, Pa. Mail-bag	527,402	Oct. 16	1193	293	69	250
Bruce, Alfred. (See Bongfeldt, Charles J., assignor.)						
Bruce, James W. (See Morton, Rufus J., assignor.)						
Bruce, William A. (See Boswell, George G. F., assignor.)						
Bruch, Frederick W., and H. P. Eilers, assignors to Acme Machinery Company, Cleveland, Ohio. Bolt-cutter head	518,222	Apr. 17	1366	341	67	282
Bruckert, Firmin. (See Delattre and Bruckert.)						
Bruckman, Ernest G. (See Kraump, Charles F., assignor.)						
Bruckner, Charles C., assignor to National Engraving Machine Company, Chicago, Ill. Engraving-machine	529,851	Nov. 27	2358	563	69	1125
Brueck, Otto, Jersey City, N. J. Wash tub	523,621	July 24	2503	628	68	513

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Brneckner, Theodore A. M., Indianapolis, Ind. Floral stand	516,259	Mar. 13	861	201	66	1629
Bruderle, Charles A., Fond du Lac, Wis. Insecticide	527,231	Oct. 9	910	.....	69	185
Bruen, William, assignor to M. Gould's Son & Co., Newark, N. J. Trunk-fastener	517,429	Apr. 3	13	3	67	5
Bruger, Theodor, assignor to Hartmann & Braun, Bockenheim, near Frankfort-on-the-Main, Germany. Electric meter	531,153	Dec. 18	1886	447	69	1589
Bruhn, Asmus N., <i>et al.</i> (See Gerlach, Emil, assignor.)						
Brulá, Edward, assignor of one-third to T. Thompson, Neillsville, Wis. Attachment for bedsteads	519,301	May 1	648	158	67	662
Brumley, Ernest. (See Brumley, Ludwig and E.)						
Brumley, Ludwig and E., Cuero, Tex. Insecticide	530,010	Nov. 27	2651	.....	69	1182
Brunbauer, Ferdinand, Vienna, Austria-Hungary. Injector. (Reissue)	11,456	Dec. 11	1452	345	69	1495
Bruck, Franz, Dortmund, Germany. Coke-oven	516,184	Mar. 13	731	171	66	1605
Brundage, Alfred I., Belmont, N. Y. Thill-tug	525,485	Sept. 4	279	68	68	1203
Brundage, Edwin L., East Orange, N. J. Temporary binder for papers, &c	513,979	Feb. 6	10	2,3	66	857
Brundage, Edwin L., East Orange, N. J. Temporary binder	516,519	Mar. 13	1308	311	66	1711
Brunemeyer, Leonhardt H., Aurora, Ill. Device for attaching pneumatic tires to wheels	519,695	May 15	1361	329	67	820
Bruner, John B. (See Smith and Bruner.)						
Bruner, Preston M., St. Louis, Mo. Artificial-stone pavement	515,901	Mar. 6	286	62	66	1503
Bruner, Preston M., St. Louis, Mo. Illuminating-tile and constructing same	517,156	Mar. 27	2388	564	66	1948
Bruner, Preston M., St. Louis, Mo. Floor construction	530,744	Dec. 11	1184	288	69	1445
Bruner, Wallace, Buckland, Ohio. Valve-reseating machine	525,441	Sept. 4	212	52	68	1190
Brunkhorst, Martin W. E. (See McLaughlin, Brunkhorst, and McLaughlin.)						
Brunner, Alfred, Prastanz, Austria-Hungary. Comb and comb-cleaner	513,980	Feb. 6	12	3	56	857
Brunner, Alfred, Laupen, Switzerland. Eyeglass folding frame	531,095	Dec. 18	1776	423	69	1568
Brunner, Danton O., Somerset, Ohio. Brooder	525,255	Aug. 28	2218	540	68	1109
Brunner, John. (See Pratt and Brunner.)						
Bruno, Theodore, Saginaw, Mich. Stave jointing and crozing machine	531,154	Dec. 18	1888	448	69	1589
Brunswick-Balke-Coller Company. (See Huss, William C., assignor.) (Reissue.)						
Brunswig, Heinrich, Troisdorf, Germany. Means for measuring the penetrative force of projectiles	523,510	July 24	2325	585	68	480
Brunt, Henry, Baltimore, Md. Sagger	523,928	July 31	3059	763	68	632
Brunton, David W., Aspen, Colo. Car-coupling	515,419	Feb. 27	2398	595	66	1347
Brunton, David W., Aspen, Colo. Pocket-transit	526,021	Sept. 18	1216	260	68	1398
Brupbacher, Ernst. (See Brupbacher, Heinrich and E.)						
Brupbacher, Heinrich and E., Zurich, Switzerland. Cushion or mattress	529,852	Nov. 27	2361	564	69	1126
Brush, Charles F., assignor to Brush Electric Company, Cleveland, Ohio. Dynamo-electric machine	514,907	Feb. 20	1552	388 369	66	1178
Brush, Edwin A., Hydesville, Cal. Filing-block	525,587	Sept. 4	450	108	68	1235
Brush Electric Company. (See Brush, Charles F., assignor.)						
Brush, George E., Danbury, Conn. Machine for pouncing crowns and brims of hats	513,873	Jan. 30	3570	878 879	66	807
Brush, George E., Danbury, Conn. Flexible pouncing-pad	515,992	Mar. 6	423	97	66	1531
Brush, George E., Danbury, Conn. Machine for pouncing brims of hats	518,661	Apr. 24	2117	529 530	67	432
Brussel, Richard. (See Rosenhaner and Brussel.)						
Brust, George, D. F., Reinhard, and L. P. Dunkel, Mount Carmel, Ill. Lock	527,105	Oct. 9	701	172	69	146
Brustlein, Henri A., Unieux, France. Hardening projectiles and apparatus therefor	519,232	May 1	526	127	67	639
Bruycker, August M. H. de. (See Bruycker, Carl L. C. de, M. W. H., and A. M. H.)						
Bruycker, Carl L. C. de, M. W. H., and A. M. H., Brooklyn, N. Y. Composition of matter for paint	529,241	Nov. 13	1287	.....	69	899
Bruycker, Max W. H. de. (See Bruycker, Carl L. C. de, M. W. H., and A. M. H.)						
Bryant, Alexander, New York, N. Y. Pipe-hanger	519,318	May 8	693	170	67	685
Bryant, Alexander, New York, N. Y. Pipe-coupling	520,514	May 29	2741	664	67	1105
Bryant, Charles A., Wakefield, Mass., assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Safety-pin	531,458	Dec. 25	2443	583	69	1709
Bryant, Eugene A., Marshfield, Wis. Rod-packing	525,588	Sept. 4	451	108	68	1235
Bryant, Fred L., Chicago, Ill. Wheel-hub	516,627	Mar. 13	1484	352	66	1745
Bryant, Isaac S., La Junta, Colo. Mechanical movement	512,094	Jan. 2	608	146	66	117
Bryant, Isaac S., La Junta, Colo. Mechanical movement	528,412	Oct. 30	2942	711	69	600
Bryant, James M. (See Smith and Bryant.)						
Bryant, Luther P. (See Cary, James H., assignor.)						
Bryant, Thomas W., Torrington, Conn. Skate-blade and manufacturing same	524,129	Aug. 7	277	65	68	713
Bryant, Walter F. (See Hurley, Joseph M., assignor.)						
Bryce, Andrew, Allegheny, assignor of nine-twentieths to C. A. O'Brien, Pittsburg, Pa. Spraying-machine	520,766	June 5	8	2	67	1198
Bryce, Andrew, Allegheny, assignor to Bryce Universal Fuel Firing Apparatus Company, Pittsburg, Pa. Furnace	526,612	Sept. 25	2241	535	68	1601
Bryce, Andrew, Allegheny, assignor to Bryce Universal Fuel Firing Apparatus Company, Pittsburg, Pa. Grate	529,242	Nov. 13	1288	309	69	899
Bryce Universal Fuel Firing Apparatus Company. (See Bryce, Andrew, assignor.)						
Bryner, G. W. (See Balsey, Charles H., assignor.)						
Bryon, William J. O., Jr., New York, N. Y. Exercising-machine	512,152	Jan. 2	709	172	66	135
Bubier, Joseph A., Boston, Mass. Grass-catcher for lawn-mowers	530,084	Dec. 4	14	4	59	1217
Buch, George, Wellsville, N. Y. Hanger for wearing-apparel	517,325	Mar. 27	2670	626	66	2003
Buch, Philippe, Akron, Ohio. Washing-machine	512,359	Jan. 9	1037	254	66	208
Buchanan, Charles G., New York, N. Y. Magnetic-ore separator	531,301	Dec. 25	2163	517 518	69	1654
Buchanan, Edwin. (See Gibbons and Buchanan.)						
Buchanan, Findley, <i>et al.</i> (See Neidl, Frank, assignor.)						
Buchanan, James, deceased, Indianapolis, Ind.; W. W. Buchanan, administrator. Steam-boiler	515,729	Feb. 27	2885	720	66	1442
Buchanan, John W., Smithville, Ohio. Wire fence	519,759	May 15	1458	353	67	837
Buchanan, Louis A., Stanford University, Cal. Triturator	529,361	Nov. 20	1496	360	69	960
Buchanan, Luther H., <i>et al.</i> (See Conrad, William H., assignor.)						
Buchanan, Patrick H., <i>et al.</i> (See Neidl, Frank, assignor.)						
Buchanan, William W., administrator. (See Buchanan, James.)						
Buchanan, Winfield F., <i>et al.</i> (See Page, Charles W. and O. P., assignors.)						
Buchel, Jules, New Orleans, La. Method of and machine for making wire brushes	512,800	Jan. 16	1803	429	66	368
Buchel, Jules, New Orleans, La. Automatic electric stop-motion for knitting-machines	513,259	Jan. 23	2552	615	66	581
Buchenberger, Anthony F., <i>et al.</i> (See Perrin, Frederick S., assignor.)						
Bucherer, Karl F., New York, N. Y. Mirror attachment for bicycles	516,910	Mar. 20	1953	460	66	1849
Buchmiller, Dulon F. (See Iske, Albert, assignor.)						
Buchsbaum, Maurice, Chicago, Ill. Invoice or other file	528,285	Oct. 30	2726	658	69	562

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Buck & Co., M. M. (See Moyle, Leigh, assignor.)						
Buck, Francena M., Spokane Wash. Attachment for pails	519,233	May 1	529	127	67	640
Buck, George N., Mattoon, Ill. Clasp	515,950	Mar. 6	340	81	66	1516
Buck, Henry. (See Hershey and Buck.)						
Buck, Henry, Mount Morris, Ill. Fence-wire-tightening device	519,940	May 15	1749	429	67	892
Buck, Henry, Mount Morris, Ill. Wire fence	523,627	Nov. 6	181	44	69	679
Buck, James A., Crescent, N. Y. Potato-digger	517,516	Apr. 3	164	37	67	33
Buckbee, Charles E., assignor of one-half to J. K. Clark, Flushing, Mich. Pseudolum-escapevent	521,012	June 5	467	111	67	1281
Buckbee, Charles E., assignor of two-thirds to C. S. Wheeler and G. Cronk, Flushing, Mich. Pneumatic tire repairer	515,284	Feb. 20	2133	535	66	1290
Buckener, Moses L. S., et al. (See Heaton, John S., assignor.)						
Buckeye Automatic Car Coupler Company. (See Timms, James, assignor.)						
Buckingham, Amanda E., Hermosa, S. D. Scrubber	516,911	Mar. 20	1954	460	66	1849
Buckingham, John L., Hermosa, S. D. Sliding staple for hasps	513,667	Jan. 30	3244	796	66	744
Buckingham, John L., Hermosa, S. D. Hasp	513,668	Jan. 30	3245	796	66	744
Buckland, Amos B., Rochester, N. Y. Door-securer	526,583	Oct. 2	21	5	69	7
Buckland, Horace S., Fremont, Ohio. Tool-securing device	526,290	Sept. 18	1678	396	68	1482
Buckland, Horace S., Fremont, Ohio. Tool-securing device	526,291	Sept. 18	1679	396	68	1483
Buckland, Horace S., Fremont, Ohio. Clamping or securing device for knives	526,292	Sept. 18	1680	397	68	1483
Buckland, Horace S., Fremont, Ohio. Tool-clamping device	526,293	Sept. 18	1682	397	68	1483
Buckland, John F. (See Harild and Buckland.)						
Buckley, Charles E., Amenia Union, N. Y. Ice-grooving machine	512,153	Jan. 2	712	173	66	135
Buckley, Charles E., Green Lane, assignor to himself, and A. E. Fonerstein, Philadelphia, Pa. Car-lock	535,256	Aug. 28	2220	540	68	1110
Buckley, Cornelius F., San Francisco, Cal. Air and water purifier	511,995	Jan. 2	443	104	66	84
Buckley, Edmond, assignor of one-half to A. B. McDaniel, Swan, Iowa. Car-coupling	525,529	Sept. 4	349	86	68	1216
Buckley, John P., assignor of one-third to J. G. Kostmayer, O. Hellman, and C. Schoeneck, New Orleans, La. Mechanism for converting motion	522,249	July 3	129	31	68	25
Buckley, Margaret L., Freeport, Pa. Shield for pitchers, &c.	517,778	Apr. 3	626	156	67	121
Buckley, William, Sheffield, England. Packing for pistons	526,682	Oct. 2	19	5	69	6
Buckley, William H., Paterson, N. J. Sash and blind fastener	512,500	Jan. 9	1299	313	66	257
Bucklin, Charles S., Baltimore, Md. Can-filling machine	515,283	Feb. 20	2146	{ 533 534 535 }	{ 66 66 66 }	1289
Bucklin Copy Holder Company. (See Bucklin, John E., assignor.)						
Bucklin, John E., Washington, D. C. Tobacco dressing and feeding machine	531,259	Dec. 18	2081	{ 497 498 499 }	{ 69 69 69 }	1623
Bucklin, John E., Washington, D. C., assignor to Bucklin Copy Holder Company, Richmond, Va. Copy-holder	521,633	June 19	1576	368	67	1514
Bucklin, John E., Washington, D. C., assignor to Bucklin Copy Holder Company, Richmond, Va. Copy-holder	526,990	Oct. 2	523	128	69	98
Buckman, Samuel Y., Pottstown, Pa. Machine for cutting sheet-metal plates	530,322	Dec. 4	431	107	69	1293
Buckman, Samuel Y., Pottstown, Pa. Feeding device for apparatus for coating metal plates	530,323	Dec. 4	432	108	69	1294
Buckminster, Prescott S., Angel's Camp, Cal. Water-wheel	525,002	Aug. 28	1784	{ 435 436 }	{ 68 68 }	1033
Buckner, David. (See Carlie, George F., assignor.)						
Buckwalter, Charles S., Royersford, Pa. Clothes-line fastener	519,526	May 8	1076	257	67	755
Budd, James, London, England. Machine for printing on glass	516,799	Mar. 20	1764	416	66	1812
Budd, James, New York, N. Y. Decorating glass or other surfaces	526,558	Sept. 25	2154	.....	68	1584
Buddle, George T., Chicago, assignor of one-half to A. R. Rawlings, Jefferson, Ill. Door-hanger	511,929	Jan. 2	345	80	66	66
Buddle, George T., assignor of one-half to E. S. Harvey, Chicago, Ill. Door-hanger	529,777	Nov. 27	2224	530	69	1100
Budington, Albert G., Austin, Tex. Metallic cross-tie	517,915	Apr. 10	818	205	67	172
Budke, John F., assignor to Cannonsburg Iron and Steel Company, Cannonsburg, Pa. Apparatus for forming fagots or piles	522,645	July 10	808	202	68	172
Buecher, August, Heidelberg, Germany. Preparation for protecting metals against corrosion	521,600	June 19	1515	.....	67	1503
Buecher, August, Heidelberg, Germany. Composition for removing rust from iron or steel	524,085	Aug. 7	197	.....	68	697
Buechert, George J., assignor to E. A. Starke and R. J. Layng, San Francisco, Cal. Explosive compound	524,776	Aug. 21	1385	.....	68	945
Buehl, Arthur B., Chicago, Ill. Adjustable draping-form	516,151	Mar. 6	671	159	66	1578
Buehler, Rudolph R., Philadelphia, Pa., assignor to T. Devlin and L. J. McGrath, W. K. Brown, and C. A. McGrath, executors of W. V. McGrath, deceased. Hot-air register	521,973	June 26	2179	523	67	1645
Boel, Jesse A. (See Kreitz, John, assignor.)						
Boel, Charles E., North Plainfield, N. J. Galvanic battery	523,758	July 31	2759	685	68	576
Boell, Edward W. (See Conkling and Buell.)						
Buerkle, Bernard A., Jr. (See Buerkle, Charles W. and B. A., Jr.)						
Buerkle, Charles W. and B. A., Jr., Pittsburg, Pa. Apparatus for pumping and compressing air	514,880	Feb. 13	1504	377	66	1155
Buerling, Charles, Cincinnati, Ohio. Automatic shutter-opener	523,970	Aug. 7	5	2	68	663
Buff, Frank J., Milwaukee, Wis. Vehicle-gear	522,401	July 3	394	101	68	78
Buffalo Dental Manufacturing Company. (See Beebe, James H., assignor.)						
Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)						
Buffalo Forge Company. (See Wendt, Henry, assignor.)						
Buffington, Frank P., and J. T. Snippen, Middletown, Ohio. Apparatus for coating paper	520,402	May 22	2552	616	67	1056
Buffington, Leroy S., Minneapolis, Minn. Burglar-alarm	521,151	June 12	706	{ 165 166 }	{ 67 67 }	1338
Buffington, Leroy S., Minneapolis, Minn., and W. C. Jones, Chicago, Ill. Electric elevator-controller	530,578	Dec. 11	902	222	69	1396
Buford, James R., and J. Geery, Lancaster, Mo. Hay-derrick	518,524	Apr. 24	1990	492	67	410
Buford, Jefferson L., Birmingham, Ala. Distance-measuring instrument	519,319	May 8	694	{ 170 171 }	{ 67 67 }	685
Bugbee, Benajah U., and J. Reno, assignors to Southbridge Optical Company, Southbridge, Mass. Eyeglasses	517,430	Apr. 3	14	3	67	5
Buhoup, Harry C., Chicago, Ill. Railway-car	515,322	Feb. 27	2254	553	66	1317
Buhoup, Harry C., Chicago, Ill. Car-vestibule diaphragm or face-plate	526,603	Oct. 2	218	52, 53	69	41
Buhoup, Harry C., Chicago, Ill. Car-vestibule diaphragm	530,745	Dec. 11	1186	289	69	1445
Buhoup, Harry C., Chicago, Ill., assignor to W. McConway, Pittsburg, Pa. Car-buffing mechanism	517,378	Mar. 27	2755	648	66	2020
Buck, David D., Detroit, Mich. Float-valve	529,243	Nov. 13	1289	310	69	899
Bukenhofer, Thomas, and E. H. Weiss, Terre Haute, Ind. Portable coal-box	528,072	Oct. 23	2347	566	69	478

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Bulette, Oscar A., Charleston, Wash. Raising sunken vessels.	524,243	Aug. 7	462	108	68	746
Bulger, James, Chicago, Ill. Conveyer.	529,159	Nov. 13	1138	275	69	874
Bull, Annabell C., Peoria, Ill. Knee-protector.	519,760	May 15	1459	354	67	838
Bull, Daniel M. (See Everett, Wilbur F., assignor.)						
Bull, Jeremiah N., Springfield, Mass. Bag.	529,478	Nov. 20	1732	413	69	1001
Bull, Johannes C., Erith, England. Apparatus for smelting and refining copper.	520,631	May 29	2933	709	67	1141
Bulla, John W. (See Collin, George W., assignor.)						
Bullard, Charles W., assignor to Bullard & Gormley Company, Chicago, Ill. Door-hanger.	529,642	Nov. 20	2006	480	69	1051
Bullard, Edward P. (See Libby, Charles L., assignor.)						
Bullard & Gormley Company. (See Bullard, Charles W., assignor.)						
Bulloch, Robert H., and J. W. Mallard, Savannah, Ga. Railway-brake.	524,037	Aug. 7	113	24	68	683
Bullock, Edward J., Wallingford, Conn. Insulator.	527,317	Oct. 9	1053	255	69	210
Bullock, Edward J., assignor of one-half to M. D. Tuttle, Wallingford, Conn. Insulator-pin.	527,318	Oct. 9	1054	255	69	210
Bullock, Herman, Crosby, and C. E. Ward, Penn Yan, N. Y. Drier.	529,778	Nov. 27	2225	530 531	69	1100
Bullock, Milan C. (See Douglass and Sypher, assignors.)						
Bullock, William M., Lakeville, Ind. Tube-expander.	529,244	Nov. 13	1290	310	69	899
Bulmer, George D., Duquesne, Pa. Tongs.	529,516	Nov. 20	1805	429	69	1013
Bülrow, Carl, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Black disazo dye.	524,665	Aug. 14	1195		68	898
Bülrow, Theodore E. M., Hamburg, Germany. Washing-douche and bath contrivance.	513,173	Jan. 23	2407	581	66	552
Bultman, Henry E., Oak Park, Minn. Spark-arrester.	527,661	Oct. 16	1615	390	69	328
Bültzingslöwen, Bruno von, New York, assignor to American Automatic Knife and Novelty Company, Brooklyn, N. Y. Pocket-knife.	515,645	Feb. 20	1760	444	66	1216
Bültzingslöwen, Bruno von, New York, assignor to American Automatic Knife and Novelty Company, Brooklyn, N. Y. Pocket-knife.	515,742	Mar. 6	15	4	66	1457
Bültzingslöwen, Bruno von, New York, assignor to American Automatic Knife and Novelty Company, Brooklyn, N. Y. Pocket-knife.	515,743	Mar. 6	16	4	66	1458
Bumann, Theodore. (See Low, Charles S., assignor.)						
Bunce, George W. (See Schaefer, Peter, assignor.)						
Bundren, Jesse B., and J. W. Hedges, Danville, Ky. Bag-lock.	530,011	Nov. 27	2652	636 637	69	1182
Bundy, McGeorge, <i>et al.</i> (See Billings, George W., assignor.)						
Bundy, McGeorge, <i>et al.</i> (See Childs, Charles H., assignor.)						
Bunjes, Friederick, Shiner, Tex. Wheel-plow.	529,479	Nov. 20	1733	413	69	1001
Bunker, Herman, Barrie, assignor of one-third to W. P. Chapman, Hamilton, Canada. Clutch-pulley.	521,281	June 12	935	221	67	1379
Bunker, Thomas, Weeping Water, Nebr. Washing-machine.	522,877	July 10	1191	297	68	241
Bunker, Walter E., Natick, Mass. Self-locking nut.	511,936	Jan. 2	444	104 106	66	85
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Machine for making and repairing roads.	511,997	Jan. 2	445	104 105 106 107	66	85
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Stone-crusher.	511,998	Jan. 2	449	106 107	66	86
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Machine for making or repairing roads.	515,744	Mar. 6	17	5	66	1458
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Road-scraper.	520,479	May 29	2685	649	67	1095
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Road-scraper.	520,480	May 29	2686	649 650	67	1096
Bunsen, George C., Milwaukee, Wis. Swimming apparatus.	516,963	Mar. 20	2041	483	66	1866
Buob, Frederick, Cincinnati, Ohio. Vehicle-top.	514,347	Feb. 6	631	162	66	971
Burbank, Louis S., assignor of one-half to I. H. Fay, Boston, Mass. Tying-machine.	515,143	Feb. 20	1915	480 481	66	1245
Burbank, Lydia M., Toledo, Ohio. Tool or implement holder.	515,817	Mar. 6	143	35	66	1479
Burch, Ezra, Ithaca, N. Y., assignor of one-half to T. B. Hill. Ice-tongs.	526,559	Sept. 25	2155	515	68	1584
Burch, Nicholas S., Hays City, Kans. Seed-dropping mechanism for planters.	514,411	Feb. 6	722	183	66	989
Burch, Theodore W. (See Tanner and Burch.)						
Burckard, Edward M., Hyattsville, Md. Heater and table.	520,632	May 29	2935	709	67	1142
Burden, Edward R., Sidney, Ohio. Car-coupling.	530,065	Nov. 27	2748	659	69	1200
Burden, James A., Troy, N. Y. Horseshoe-machine.	524,307	Aug. 14	578	137 138	68	785
Burdett, Daniel B., <i>et al.</i> (See Butterfield, Fessenden C., assignor.)						
Burdett, J. B. (See Rowntree, Harold, assignor.)						
Burdick, Charles L., assignor to H. J. Thayer and C. H. Chandler, Chicago, Ill. Foot-pump.	522,726	July 10	953	237	68	197
Burdick, Hiram M., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Cultivator.	525,838	Sept. 11	911	203 204	68	1329
Burdick, John R., Brooklyn, N. Y. Roller thrust-bearing.	529,853	Nov. 27	2363	564	69	1126
Burdon, Levi L., assignor to Burdon Wire and Supply Company, Providence, R. I. Manufacture of solder-lined seamless tubes.	525,676	Sept. 4	597	143	68	1261
Burdon Wire and Supply Company. (See Burdon, Levi L., assignor.)						
Burdwin, John W., assignor to C. H. Mitchell, Chicago, Ill. Elevator-hatchway guard.	523,196	July 17	1778	447	68	365
Burge, Walter, <i>et al.</i> (See Shank, Charles A., assignor.)						
Burger, Jacob H. (See Schweizer and Burger.)						
Burger, Leopold. (See Kohn, Adolf and S., assignors.)						
Burgess, Alexander, Chicago, Ill., assignor to American Cereal Company, Akron, Ohio. Beater and dropper.	515,571	Feb. 27	2631	654	66	1392
Burgess, Andrew, Buffalo, N. Y. Detachably securing barrels to stocks.	517,024	Mar. 27	2156	511	66	1904
Burgess, Andrew, Buffalo, N. Y. Inertia-piece, releasing second barrel by recoil of first.	520,559	May 29	2817	680	67	1120
Burgess, Andrew, Buffalo, N. Y. Folding gun.	521,202	June 12	799	187 188	67	1355
Burgess, Andrew, Buffalo, N. Y. Folding magazine-gun.	524,800	Aug. 21	1422	348	68	952
Burgess, Andrew, Owego, N. Y., assignor to Burgess Gun Company. Recoil-operated firearm.	520,752	May 29	3144	761	67	1179
Burgess, Andrew, Owego, N. Y., assignor to Burgess Gun Company. Recoil-operated magazine-gun.	520,753	May 29	3146	762	67	1180
Burgess, Benjamin A., Hamilton, Canada. Lubricator.	518,585	Apr. 24	1992	493	67	410
Burgess, C. H., <i>et al.</i> (See Fryer, Robert M., assignor.)						
Burgess, Carrie A., Detroit, Mich. Waist.	523,360	July 17	1890	475	68	386
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Transom-lifter.	512,275	Jan. 9	901	218	66	183
Burgess, Edward T., Columbus, Ohio. Soldering-stove.	515,993	Mar. 6	425	97	66	1531
Burgess Gun Company. (See Burgess, Andrew, assignor.)						
Burgess, Neilson, Highlands, N. J. Aerostatic advertising device.	522,505	July 3	559	143	68	110

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Burgess, Perry A. (See Burgess, Willard H. and P. A.)						
Burgess, Silas P., Springfield, Mass. Roach-trap	529,109	Nov. 13	1052	254	69	857
Burgess, Willard H. and P. A., Steamboat Springs, Colo. Claw-hammer	524,539	Aug. 14	985	242	68	858
Burgesser, George, <i>et al.</i> (See Cook, George, assignor.)						
Burgevin, Francis E., Burgevin, Ind. Ter. Wrench	521,582	June 19	1483	347	67	1498
Burghardt, Christian. (See Sinks, David, assignor.)						
Burgio, Charles C., Brooklyn, N. Y. Mustache-curler	529,591	Nov. 20	1926	459	69	1037
Burton, Charles and H., Malin Bridge, near Sheffield, England. Machine for shearing or clipping animals	523,880	July 31	2976	741	68	617
Burton, Harry. (See Burgoon, Charles and H.)						
Burgstaller, Georg, Pressburg, Austria-Hungary. Nailless horseshoe	520,409	May 29	2567	621	67	1075
Burk, Henry. (See Norris and Burk.)						
Burk, Lemon O., assignor to himself and D. Hopson, Corning, Ark. Valve-gear for steam-engines	531,096	Dec. 18	1777	424	69	1568
Burk, Michael F. (See Kenison and Burk.)						
Burk, Taylor C. (See Gardy, Henry D., assignor.)						
Burk, William W., Cleveland, Ohio. Setting for steam-boilers	527,106	Oct. 9	702	172	69	146
Burkart, Gustav, West Liberty, Iowa. Harrow	523,622	July 24	2504	628 629	68	514
Burkart-Stalder, August, Berne, Switzerland. Heating device	530,390	Dec. 4	554	138	69	1316
Burke, Charles C., New York, N. Y. Barreling paraffin, &c.	530,746	Dec. 11	1187	289	69	1445
Burke, Charles G., Brooklyn, N. Y. Closed-conduit electric railway	529,704	Nov. 27	2107	505	69	1079
Burke, David H., St. Paul, Minn. Door-opener for fire apparatus	522,315	July 3	241	63	68	48
Burke, Hugh, <i>et al.</i> (See Graham and Kane, assignors.)						
Burke, James, Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Compounding motor-generators	524,376	Aug. 14	720	175	68	810
Burke, James M., <i>et al.</i> (See Graham and Kane, assignors.)						
Burke, John J., assignor to M. A. Burke, Buffalo, N. Y. Pipe-coupling	522,005	June 26	2251	540	67	1657
Burke, John O. (See Scott and Burke.)						
Burke, Joseph J. (See Culbertson and Burke.)						
Burke, Mary A. (See Burke, John J., assignor.)						
Burke, Melancthon T., La Crosse, Wis. Horse-collar fastener	528,143	Oct. 30	2480	601	69	517
Burke, Patrick, St. Louis, Mo. Fishpole-holder	525,132	Aug. 28	2022	495	68	1075
Burke, Walter, Providence, R. I. Musical instrument	529,893	Nov. 27	2424	582	69	1138
Burkhardt, Franklin P., assignor of three-fourths to A. M. Pershall and A. F. Nichols, Chelan, Wash. Mortise-lock	527,011	Oct. 2	555	135	69	105
Burkhart, John D., C. H. Waterman, and J. D. Smith, Dayton, Wash. Plow	518,936	May 1	3	1	67	537
Burkholder, Alfred, Toronto, Canada. Chair	525,187	Aug. 28	2124	518	68	1092
Burkholder, Alfred, Toronto, Canada. Wringing-machine	529,592	Nov. 20	1927	459	69	1037
Burkholder, Jacob S. (See Boyens and Burkholder.)						
Burkholder, Jonas R., Landis Valley, Pa. Implement for banding boxes	523,971	Aug. 7	6	2	68	664
Burleigh, George K., Tilton, N. H. Watch-carrier for bicycles	516,998	Mar. 20	2097	496	66	1876
Burlingame, Fred E., Walpole, Mass. Drying-machine	522,646	July 10	811	202	68	172
Burlington Blanket Company. (See Ransom, Albert F., assignor.)						
Burneister, Frederick, Cleveland, Ohio. Sash-fastener	528,656	Nov. 6	243	60	69	690
Burneister, Frederick, assignor to Kean & Doty Manufacturing Company, Cleveland, Ohio. Sash-fastener	520,754	May 29	3150	763	67	1180
Burnam, Felder A., Medina, N. Y. Web-fastening for suspenders	523,804	July 31	2841	706	68	591
Burnap, Charles F., assignor of two-thirds to H. Austin, Jr., and K. E. Pew, Warren, Ohio. Flour bin and sifter	526,009	Sept. 11	1191	273	68	1380
Binnell, Milo S., <i>et al.</i> (See Boomhower, Eli E., assignor.)						
Burner, Daniel E., assignor to Case Manufacturing Company, Columbus, Ohio. Middlings-prifier	512,095	Jan. 2	609	146 147	66	117
Burnett, Henry D., Lynn, and S. E. Doane, Swampscott, assignors to General Electric Company, Boston, Mass. Incandescent lamp and manufacturing same	516,800	Mar. 20	1766	417	66	1812
Burnett, Henry D., Lynn, and S. E. Doane, Swampscott, Mass., assignors to General Electric Company, of New York. Apparatus for working glass	520,767	June 5	10	3	67	1198
Burnett, Henry D., Lynn, and S. E. Doane, Swampscott, Mass., assignors to General Electric Company, of New York. Manufacture of incandescent electric lamps	522,964	July 17	1361	338	68	289
Burnett, Thomas B., Mulvane, Kans. Halter	521,457	June 19	1272	296	67	1460
Burnham, Arthur M., Gardiner, Me. Snow-plow	530,614	Dec. 11	963	236	69	1406
Burnham, Arthur M. and H. L.; said A. M. Burnham assignor to F. Hildreth, Gardiner, Me. Plate-lifter	515,902	Mar. 6	268	62	66	1503
Burnham, Dorr B. (See Burnham, Frank A., assignor.)						
Burnham, Frank A., assignor of one-half to D. B. Burnham, Battle Creek, Mich. Direct-acting steam-pump	519,857	May 15	1621	394 395	67	868
Burnham, Hattie L. (See Burnham, Arthur M. and H. L.)						
Burnham, John E. (See Stickney, Henry R., assignor.)						
Burnham, John P., assignor to T. Wilce, Chicago, Ill. Machine for forming interfitting tongues and grooves in ends of flooring boards	517,326	Mar. 27	2671	627	66	2003
Burnham, John P., assignor to T. Wilce, Chicago, Ill. Machine for tonguing and grooving ends of flooring boards	517,327	Mar. 27	2672	627	66	2003
Burnham, John P., assignor to T. Wilce, Chicago, Ill. Machine for matching ends of flooring boards	518,804	Apr. 24	2375	588	67	477
Burnham, John P., assignor to T. Wilce, Chicago, Ill. Combined planing and boring machine	525,329	Sept. 4	9	2	68	1152
Burnham, John P., assignor to W. B. Allbright, Chicago, Ill. Art of and machine for detaching lint from cotton-seed hulls and separating lint and hulls	523,655	July 31	2559	641	68	541
Burnham, John P., assignor to W. P. Allbright, Chicago, Ill. Detaching lint from cotton-seed hulls and separating lint and hulls	525,691	Sept. 11	638	150	68	1282
Burnham, Ozro H., Oakland, and J. J. Meyers, San Francisco, Cal. Cold-storage structure	515,285	Feb. 20	2154	535	66	1290
Burnham, William W., Newton, Mass., assignor to Electric Gas Lighting Company, Portland, Me. Electric battery	520,033	May 22	1911	468	67	937
Burns, Albert J., Fairport, N. Y. Pneumatic tire for bicycles	511,999	Jan. 2	450	107	66	86
Burns, Albert J., Fairport, N. Y. Pneumatic tire	521,330	June 12	1025	241	67	1396
Burns, Arthur H., Penn Yan, N. Y. Oar	517,999	Apr. 10	979	243	67	197
Burns, Cornelius, Burnside, Pa. Vehicle-axle	525,257	Aug. 28	2221	541	68	1110
Burns, David C. (See Rogers and Burns.)						
Burns, Elmer Z. (See Hough and Burns.)						
Burns, Michael J., Lowell, Mass., assignor to Gamewell Fire-Alarm and Telegraph Company, New York, N. Y. Police-signal	516,641	Mar. 20	1507	359	66	1766
Burns, Peter C., Pern, Ind. Electric-battery cell	514,845	Feb. 13	1450	365	66	1145
Burns, Philip, Norwich, Conn. Safety-bolt	521,458	June 19	1273	296	67	1460

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Burns, Robert. (See Coleman, Clyde J., assignor.)						
Burns, Walter G., Fort Wayne, Ind. Game apparatus	517,600	Apr. 3	293	69	67	59
Burns, Walter G., assignor of one-half to B. Lehman, Fort Wayne, Ind. Fruit-jar	516,761	Mar. 20	1714	403	66	1803
Burns, William M. (See Snead and Burns.)						
Burpee, Frank. (See Letson and Burpee.)						
Burr, David J., assignor of one-half to L. H. Lightfoot, Richmond, Va. Tobacco-tagging machine	526,374	Sept. 25	1836	{ 436 437	{ 68	1528
Burr, David J., assignor of one-half to L. H. Lightfoot, Richmond, Va. Machine for making and affixing tags to tobacco	526,375	Sept. 25	1840	{ 437 438	{ 68	1528
Burr, David J., assignor of one-half to L. H. Lightfoot, Richmond, Va. Machine for attaching tags to tobacco	526,376	Sept. 25	1843	438	68	1529
Burr, Edmund C. (See De Coninck and Burr.)						
Burr, Nelson, Batavia, Ill. Stave-machine	524,308	Aug. 14	580	139	68	786
Burr, Sanford S., South Haven, Mich. Support or standard for frames of bath-tubs, tables, &c.	516,562	Mar. 13	1372	326	66	1724
Burr, William A., Berkhamsted, England. Fireproof ceiling	513,874	Jan. 30	3574	879	66	808
Burr, William F., Eldred, Pa. Machinery for operating oil-wells	524,244	Aug. 7	463	109	68	746
Burrell, Charles F., trustee. (See Ferguson, Henry J., assignor.)						
Burrell & Co., D. H. (See Feldmeier, Harvey, assignor.)						
Burrell & Co., D. H. (See Gibbons and Buchanan, assignors.)						
Burrell & Co., D. H. (See Lundstrom, Carl J., assignor.)						
Burrell & Co., D. H. (See Womersley, Sague, and Clapp, assignors.)						
Burrell, David H., Little Falls, N. Y. Making emulsions in cheese manufacture	530,298	Dec. 4	393	99	69	1256
Burridge, Lee S., and N. R. Marshman, New York, N. Y. Adding-machine	513,452	Jan. 23	2555	700	66	638
Burrill, Frank H., Concord, Mass. Faucet	525,589	Sept. 4	452	108	68	1235
Burrill, Lemuel B., Cambridge, assignor of forty-nine one-hundredths to R. H. Gray, Boston, Mass. Detonating burglar-alarm	530,012	Nov. 27	2655	637	69	1183
Burris, William E., Kansas City, Mo. Car-coupling	513,875	Jan. 30	3575	879	66	808
Burritt, Harvey H., Newark, N. J., assignor to Burritt Manufacturing Company, of New Jersey. Valve	515,514	Feb. 27	2534	628	66	1373
Burritt Manufacturing Company. (See Burritt, Harvey H., assignor.)						
Burroughs, George M. (See Roberts and Burroughs.)						
Burrowes, Edward T. (See Anderson, Oliver, assignor.)						
Burrowes, Edward T. (See Lidback, John A., assignor.)						
Burrowes, Edward T., Portland, Me. Awning or curtain for open cars	516,762	Mar. 20	1715	404	66	1803
Burrowes, Edward T., Portland, Me. Holding device for spring-actuated shades	523,517	Nov. 20	1805	429	69	1013
Burrows, Francis H., Findlay, Ohio. Weather-boarding	525,442	Sept. 4	213	53	68	1190
Burrows, George H., Somerville, Mass. Air-supplying apparatus for carburetors	522,573	July 3	678	172	68	132
Burrows, George H., Somerville, Mass. Carburetor	522,574	July 3	679	173	68	132
Burrows, Joseph H., Globe, Ariz. Ter., assignor to G. Hyman, San Francisco, Cal. Nut-lock	517,728	Apr. 3	525	127	67	102
Burrows, Taylor. (See Donisthorpe and Burrows.)						
Burson, Harry, Wichita, Kans., assignor of one-third to J. H. Elspass, J. H. Wheeler, Pueblo, Colo., J. M. Ware, Arkansas City, Kans., and T. Russell, Pueblo, Colo. Ore-crushing mill	518,563	Apr. 17	1950	{ 481 482	{ 67	388
Burson, William W., Chicago, Ill. Bundle-carrier	519,834	May 15	1580	387	67	861
Burt, Carl A., assignor to Burt Manufacturing Company, Rochester, N. Y. Heating apparatus	512,000	Jan. 2	451	107	66	86
Burt, Charles A., Rochester, N. Y. Machine for topping cans	514,702	Feb. 13	1214	{ 302 303	{ 66	1100
Burt, Charles A., Rochester, N. Y. Machine for cleaning can-tops	528,462	Oct. 30	3035	736	69	617
Burt, Eliza C., Detroit, Mich. Washing-machine	523,103	July 17	1592	400	68	333
Burt, George H., Milburn, N. J. Billiard-ball	513,876	Jan. 30	3577	880	66	809
Burt, George H., Milburn, N. J. Billiard-ball	517,972	Apr. 10	919	230	67	188
Burt, John, Iron River, Mich. Packing-case	529,705	Nov. 27	2110	506	69	1030
Burt Manufacturing Company. (See Burt, Carl A., assignor.)						
Burt, William. (See Goldsmith and Burt.)						
Burtis, Charles F., Toronto, Canada. Game apparatus	524,931	Aug. 21	1650	404	68	991
Burton, Augustus G., Chicago, Ill. Retarding device for bolt-actuating mechanism	516,362	Mar. 13	1034	266	66	1661
Burton, Augustus G., and D. S. Covert, Chicago, Ill. Safe-lock	522,103	June 26	2402	{ 577 578	{ 67	1685
Burton, Charles C., Utica, N. Y., assignor of part to G. M. Ludlow, Chicago, Ill., L. E. Holden, Beloit, Wis., C. G. Hussey, Allegheny, and J. C. des Granges, Pittsburg, Pa. Elevated railway	518,564	Apr. 17	1952	482	67	388
Burton, Charles C., assignor of part to G. M. Ludlow, Chicago, Ill., L. E. Holden, Beloit, Wis., C. G. Hussey, Allegheny, and J. C. des Granges, Pittsburg, Pa. Railway track and car	518,565	Apr. 17	1955	483	67	388
Burton, Ella S. (See Burton, Garrett G. and E. S.)						
Burton, Garrett G. and E. S., Topeka, Kans. Combined writing-packet and copy-holder	514,541	Feb. 13	941	{ 237 238	{ 68	1048
Burton, George D., Boston, Mass. Electric heating apparatus	521,009	June 5	621	146	67	1308
Burton, George D., Boston, Mass. Electric welding or brazing mechanism	523,957	July 31	3120	776	68	644
Burton, George D., Boston, and E. E. Angell, Somerville, Mass., assignors to Electrical Forging Company, of Maine. Electric converter	522,506	July 3	560	143	68	111
Burton, George D., Boston, and E. E. Angell, Somerville, Mass., assignors to Electrical Forging Company, of Maine. Electric converter	522,507	July 3	562	144	68	111
Burton, John M., Wichita, Kans. Stock-car	525,314	Aug. 28	2319	562	68	1130
Burton, Josiah L., Martinsville, Ind. Boat	514,908	Feb. 20	1555	389	66	1178
Burton, Matthew, and L. G. Beers, Chicago, Ill. Animal-trap	530,158	Dec. 4	137	36	69	1240
Burton, Otto A., Atlanta, Ga. Boxing-glove	523,562	July 24	2413	604	68	497
Burton, William. (See Tranter, Benjamin, assignor.)						
Burtou, William L., and H. Meyerding, New Orleans, La. Lumber-drier	521,846	June 26	1936	464	67	1599
Busbee, Loranzo D., and C. M. Rosser, Dallas, Tex. Device for the disposal of night-soil, &c.	513,877	Jan. 30	3578	880	66	809
Busby, Nahum J., Maplewood, Mass. Bell push-button for floors	513,705	Jan. 30	3309	815	66	757
Busch, Frederic C., assignor to G. A. Waeber, New York, and F. Reiset, Katonah, N. Y. Means for opening metal receptacles	526,435	Sept. 25	1967	469	68	1551
Busch, Jacob, Springfield, Ohio. Cooler for beverages	528,463	Oct. 30	3037	737	69	617
Buschmann, John F., Hattiesburg, Miss. Combined sash-lock and burglar-alarm	523,459	July 24	2229	561	68	463
Busenbenz, Jacob J., Chicago, Ill. Time-stamp	526,854	Oct. 2	301	{ 73 74 75	{ 69	51
Busfield, James P., Haverhill, Mass. Apparatus for forming spring-heels	524,101	Aug. 7	221	51	68	705
Busfield, James P., Haverhill, Mass. Apparatus for molding spring-heels	526,890	Oct. 2	365	91	69	68

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Bush, Benjamin O., Kalamazoo, Mich. Release for target-traps	531,900	Dec. 18	2085	499	69	1624
Bush, Hiram T., assignor to Ideal Manufacturing Company, Detroit, Mich. Trap	526,991	Oct. 2	524	128	69	98
Busha, Joseph. (See Steel and Busha.)						
Bushell, Charles S., and F. W. Degler, Menasha, Wis. Support for washtubs	516,260	Mar. 13	862	201	66	1630
Bushell, William P. (See Kline, William H., assignor.)						
Bushnell, Cyrus P., Providence, R. I. Ladder-lock	523,848	July 31	2927	729	68	607
Buskirk, Philip K., <i>et al.</i> (See Phillips, Thomas E., assignor.)						
Buskirk, Thomas B. (See Dougherty, Albert G., assignor.)						
Büssing, Heinrich, Brunswick, Germany. Brake	516,912	Mar. 20	1955	{ 460 461 }	{ 66 }	1849
Bustard, Mary E. (See Garies, Fannie M., assignor.)						
Bustin Manufacturing Company. (See Bustin, William H., assignor.)						
Bustin, Robert, Boston, Mass., assignor of two-thirds to J. R. McConnell and J. A. Van Wart, St. Mary's, Fredericton, Canada. Hot-water bandage for treating horses	530,085	Dec. 4	15	4	69	1217
Bustin, William H., Watertown, Mass., assignor to Bustin Manufacturing Company, Portland, Me. Vehicle-axle	522,402	July 3	396	101	68	78
Butcher, Jasper N., Mulvane, Kans. Railway-switch	529,245	Nov. 13	1291	{ 310 311 }	{ 69 }	900
Butcher, Joseph, Melrose, Mass. Cyclometer	522,965	July 17	1362	338	68	289
Butcher, Robert, New York, N. Y. Machine for heating and mixing asphalt	520,560	May 29	2820	681	67	1121
Butler, Albert. (See Tickner and Butler.)						
Butler, George H., Corsicana, Tex. Detaching device for wheel-hubs	514,348	Feb. 6	632	162	66	971
Butler, Henry G., Kenosha, Wis. Scraper	519,835	May 15	1583	387	67	62
Butler, Henry G., Kenosha, Wis. Burning clay to make ballast, &c	529,480	Nov. 20	1734	413	69	1001
Butler, Henry G., assignor of one-half to W. Butler, Kenosha, Wis. Scraper-operating apparatus. (Reissue)	11,435	Aug. 14	1246	308	68	906
Butler, Hiram E., Jamestown, N. Y. Combined blackboard and desk	513,020	Jan. 23	2253	544	66	521
Butler, Ira C., and G. S. Shepard, Linesville, Pa. Machine for separating and cleaning potatoes	530,086	Dec. 4	17	4	69	1218
Butler, James H. (See Beltzer, Joseph, assignor.)						
Butler, John G., Augusta, Ga. Apparatus for playing duplicate whist	514,302	Feb. 6	568	142	66	960
Butler, Joseph, Marion, Ind. Metallurgic furnace	519,985	May 15	1824	447	67	906
Butler, Joseph B., Brooklyn, N. Y. Ice-cream freezer	521,013	June 5	468	112	67	1281
Butler, Joseph C., New Providence, Iowa. Mechanical movement	521,780	June 26	1840	438	67	1580
Butler, Maguler, <i>et al.</i> (See Knipper, Peter H. and J. G., assignors.)						
Butler, Reuben I. (See Herrington and Butler.)						
Butler, Thomas C., assignor of one-half to A. Orr, Mystic, Iowa. Nut-lock	516,563	Mar. 13	1373	327	66	1724
Butler, Thomas H. (See Levey, Butler, and MacDonald.)						
Butler, William. (See Butler, Henry G., assignor. (Reissue.)						
Butler, William A. (See Cassidy and Butler.)						
Butler, William A., assignor to J. G. Boyd, New York, N. Y. Electric-railway supply system	523,104	July 17	1593	{ 400 401 }	{ 68 }	333
Butler, William A., assignor to J. G. Boyd, New York, N. Y. Conduit system for electric railways	527,265	Oct. 9	960	233	69	193
Butman, Elmer E., <i>et al.</i> (See Hill, Wilford A., assignor.)						
Butman, Thomas R., Chicago, Ill. Steam-boiler furnace	512,536	Jan. 9	1345	{ 324 325 }	{ 66 }	265
Butman, Thomas R., Chicago, Ill. Mechanical stoker	526,341	Sept. 18	1764	{ 418 419 }	{ 68 }	1501
Butt, Addison W., Springfield, Ohio. Cultivator	530,075	Nov. 27	2771	{ 664 665 }	{ 69 }	1203
Butt, Moses E., <i>et al.</i> (See Cadenhead, Benjamin F., assignor.)						
Büttel, Harry B., Newark, N. J. Railway-switch	521,014	June 5	469	112	67	1281
Butterfield, Alfred W., Bozeman, Mont. Stopper-puller	523,972	Aug. 7	7	2	68	664
Butterfield, Charles, Nottingham, England. Traveling-cylinder printing-machine	516,913	Mar. 20	1958	{ 461 462 }	{ 66 }	1850
Butterfield, Fessenden C., Minneapolis, Minn., assignor of three-fourths to L. S. Cass, Sumner, Iowa, and D. B. Burdett, Minneapolis, Minn. Apparatus for separating volatilized metals from other commingled gases	516,674	Mar. 20	1567	373	66	1777
Butterfield, Fessenden C., Minneapolis, Minn., assignor of three-fourths to L. S. Cass, Sumner, Iowa, and D. B. Burdett, Minneapolis, Minn. Furnace for treating refractory ores. (See Collins, John O., assignor.)	518,662	Apr. 24	2120	{ 530 531 }	{ 67 }	432
Butterfield, George E. (See Collins, John O., assignor.)						
Butterfield, Tyrannus P., assignor to M. W. Baker, North Indianapolis, Ind. Washing-machine	514,703	Feb. 13	1217	303	66	1101
Butterfield, William, assignor to William Deering & Company, Chicago, Ill. Frame structure for self-binding harvesters	512,001	Jan. 2	454	108	66	87
Butterworth, Benjamin. (See Heckert, William, assignor.)						
Butterworth, Robert, Somerville, Mass. Calendering-machine	528,920	Nov. 13	746	175	69	803
Butterworth, Theodore, Quincy, Ill. Spring-carrycomb	516,520	Mar. 13	1310	311	66	1712
Butts, Rufus C., Webb City, Mo. Car-coupling	515,144	Feb. 20	1921	481	66	1246
Butts, William, assignor to C. Mulford, New York, N. Y. Ice-cutting machine	528,073	Oct. 23	2345	567	69	478
Butts, William L., Evansville, Ind. Stove or range	515,515	Feb. 27	2536	628	66	1373
Butz, Albert M., Oak Park, Ill. Thermostatic valve	525,330	Sept. 4	10	2	68	1153
Butz, Edward M., assignor to M. H. Butz, Allegheny, Pa. Manufacturing structural material	526,804	Oct. 2	221	53,54	69	42
Butz, Mary H. (See Butz, Edward M., assignor.)						
Butz, Walter D., Norristown, Pa. Clutch for machinery	518,051	Apr. 10	1064	269	67	210
Butz, Walter D., Norristown, Pa. Automatic knitting-machine	529,362	Nov. 20	1498	{ 360 361 }	{ 69 }	960
Butzer, Frederick D., Cosmopolis, Wash. Sawing-machine	512,600	Jan. 9	1440	347	66	283
Buxton, Edward. (See Noble and Buxton.)						
Buxton, Willard H., Worcester, assignor to Lamb Manufacturing Company, Chicopee Falls, Mass. Sheet-metal shoe plate or spike	527,403	Oct. 16	1194	293	69	250
Byas, Adrian, Grand Rapids, Mich. Combined barrel truck and stand	520,104	May 22	2032	495	67	960
Bzaby, Charles E., assignor to F. A. Riehle, Philadelphia, Pa. Electric apparatus for automatic weighing	521,331	June 12	1026	241	67	1396
Bzaby, Charles E., assignor to F. A. Riehle, Philadelphia, Pa. Scale beam and poise for testing-machines	529,160	Nov. 13	1139	275	69	874
Bizzo, Arthur E., Ishpeming, Mich. Mining-drill	528,850	Nov. 6	601	{ 142 143 }	{ 69 }	755
Bizzo, Arthur E., and H. H. Thompson, Ishpeming, Mich. Rock-drill	512,154	Jan. 2	713	173	66	136
Byars, W. H. (See Whipple, William R., assignor.)						
Byerley, Francis X., Cleveland, Ohio. Manufacture of asphalt, &c., from petroleum	524,130	Aug. 7	279	65	68	713
Byers, David A., Denver, Colo. Wire-coupling	515,420	Feb. 27	2400	595	66	1348

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Byers, Edward N. and J. J., assignors of one-third to T. Huser, Cameron, Mo. Car-coupling.....	525,734	Sept. 11	725	167	62	1296
Byers, Jacob J. (See Byers, Edward N. and J. J.).....						
Byers, John F., assignor to John F. Byers Machine Company, Ravenna, Ohio. Pneumatic clutch.....	517,679	Apr. 3	446	108	67	86
Byler, Oliver C., Holden, Mo. Churn.....	517,431	Apr. 3	15	3, 4	67	5
Bynon, William, assignor of two-thirds to J. A. Dolphin and T. F. Jordan, Olyphant, Pa. Shaft-hanger.....	529,319	Nov. 13	1428	343	69	926
Byram, Frank A., Philadelphia, Pa. Garment-sleeve and knitting and adapting same for attachment to knit garments.....	514,909	Feb. 20	1556	390	66	1179
Byram, Norman S. (See Wright, George C., assignor.).....						
Byrd, Walter M., Mount Gilead, assignor of one-half to W. D. and A. D. Clark, Troy, N. C. Rotary steam-engine.....	516,729	Mar. 20	1667	395	66	1794
Byrd, Walter M., Mount Gilead, assignor of one-half to W. D. and A. D. Clark, Fly, N. C. Rotary steam-engine.....	517,790	Apr. 3	627	157	67	122
Byrd, Walter M., Mount Gilead, assignor of one-half to W. D. and A. D. Clark, Fly, N. C. Rotary steam-engine.....	523,958	July 31	3121	776 } 777 }	68	645
Byrd, William O., Baltimore, Md. Coffee or tea pot.....	528,201	Oct. 30	2576	623	69	534
Byrne, Charles, London, England. Velocipede.....	527,404	Oct. 16	1195	293 } 294 }	69	250
Byrne, Michael, New York, N. Y. Thermometer.....	518,442	Apr. 17	1752	435	67	353
Byrne, Patrick, Birmingham, Ala. Burglar-alarm.....	525,530	Sept. 4	350	86	68	1216
Byrne, Roderick, Cambridge, Mass. Overflow-alarm for receptacles.....	514,116	Feb. 6	218	51	66	896
Byrns, James O., St. Paul, Minn. Sealing device for cash-registers.....	530,924	Dec. 18	1473	349	69	1514
C. B. Cottrell & Sons Company. (See Cottrell, Charles F., assignor.).....						
C. B. Cottrell & Sons Company. (See Cottrell, Edgar H., assignor.).....						
C. & C. Electric Company. (See Fay, Thomas J., assignor.).....						
C. F. Zimmermann Company. (See Ackermann, Hermann, assignor.).....						
C. F. Zimmermann Company. (See Gery and Dolge, assignors.).....						
C. F. Zimmermann Company. (See Richie, Walter J., assignor.).....						
C. T. Ham Manufacturing Company. (See Bergener, Charles, assignor.).....						
Cabana, Leon M., Buffalo, N. Y. Metallic basket.....	515,107	Feb. 20	1848	465	66	1232
Cabell, Milton S., Quincy, Ill. Feed-water purifier.....	528,851	Nov. 6	603	143	69	756
Cable, Daniel J., Pittsburg, Pa. Lock.....	517,729	Apr. 3	527	127 } 128 }	67	102
Cable, James M., assignor of one-half to M. Spall, Brooklyn, N. Y. Fender.....	531,155	Dec. 18	1889	448 } 449 }	69	1589
Cable, Wheeler, Boston, Mass. Treating plastic rubber compounds.....	526,483	Sept. 25	2043	486	68	1563
Cabot, Harry H., Bristol, R. I. Paper-fastener.....	526,855	Oct. 2	306	75	69	58
Cabot, John A., assignor of two-thirds to F. H. Kirchner and H. M. Ziegler, Cincinnati, Ohio. Electric converter.....	523,805	July 31	2842	706	68	591
Cabot, Samuel, Brookline, Mass. Compound for bleaching and preserving wood.....	515,191	Feb. 20	1990		66	1259
Cabrié-Gardien, Gustave, Paris, France. Carburetor.....	515,287	Feb. 20	2163	537	66	1292
Cacciatori, Peter, Chicago, Ill. Freezer.....	512,002	Jan. 2	456	109	66	88
Caddy, Thomas E., Nottingham, England. Furnace.....	521,203	June 12	802	188 } 189 }	67	1355
Cade, Charles, Brooklyn, N. Y. Compensating device.....	525,258	Aug. 28	2222	541	68	1110
Cade, Drury B. (See Reese and Cade.).....						
Cade, George. (See Scetrini and Cade.).....						
Cadenhead, Benjamin F., Union Grove, assignor of two-thirds to E. Gilbreath, Guntersville, and M. E. Butt, Blountsville, Ala. Plow.....	512,678	Jan. 16	1572	378	66	324
Cadwell, Jason R., Chicago, Ill. Combined fountain and sprinkler.....	528,144	Oct. 30	2481	601	69	517
Cadwell, William H., Lansing, Mich. Barrel.....	526,069	Sept. 18	1302	301	68	1413
Cady, George W., Providence, R. I. Support for railway-rails.....	514,179	Feb. 6	337	81	66	917
Cady, James A., et al. (See Savage, William O., assignor.).....						
Caffall, Edward M., assignor of one-half to C. W. Jackson, Baltimore, Md. Preserving articles or structures.....	520,819	June 5	113		67	1217
Caesar, Peter J., Fergus Falls, Minn. Razor-sharpener.....	526,125	Sept. 18	1396	325	68	1430
Caesar, Peter J., assignor of five-eighths to A. B. Peterson and C. Elg, Fergus Falls, Minn. Device for sharpening razors.....	529,320	Nov. 13	1429	344	69	926
Cahall, H. E., et al. (See Cahall, John, assignor.).....						
Cahall, John, assignor to H. E. and W. H. Cahall, Mansfield, Ohio. Steam-boiler.....	518,519	Apr. 17	1878	465	67	375
Cahall, W. H., et al. (See Cahall, John, assignor.).....						
Cahen, Marcus, Mülheim, Germany. Skinning-knife.....	518,223	Apr. 17	1367	342	67	283
Cahill, James P. (See Roberts, Blackwood, and Cahill.).....						
Cahill, Patrick J., Utica, N. Y. Water-closet seat.....	522,553	July 3	639	162 } 163 } 724 }	68	125
Cahill, Thaddeus, New York, N. Y. Pianoforte-action.....	520,667	May 29	2990		67	1152
Cahoone, Edwin R. (See Greene, William A., assignor.).....						
Caillet, Justin, Chicago, Ill. Tanning apparatus.....	512,861	Jan. 16	1923	455	66	391
Cain, John, Utica, N. Y. Roll for spinning-machines.....	527,107	Oct. 9	705	172	69	146
Cain, Wesley A., Medicine Lodge, Kans. Portable and adjustable support for hose-nozzles.....	518,986	May 1	81	21	67	551
Caird, Edward B. (See Rayner, Thomas J., assignor.).....						
Cairnes, Alexander B., San Diego, Cal. Extension fire-ladder and truck.....	527,942	Oct. 23	2110	506 } 507 }	69	435
Calahan, Edward A., Brooklyn, N. Y. Straw-burning stove.....	523,806	July 31	2843	707	68	592
Caldwell, Andrew J., Brooklyn, N. Y., assignor to H. R. Worthington, Elizabeth, N. J. Check-valve.....	528,360	Oct. 30	2853	691	69	585
Caldwell, Edward P., assignor to Heath Rail Joint Company, Minneapolis, Minn. Rail-joint.....	513,081	Jan. 23	2254	544	66	521
Caldwell, Edward P., assignor to Heath Rail Joint Company, Minneapolis, Minn. Rail-joint.....	519,904	May 15	1694	413	67	883
Caldwell, Frank G., Wheeling, W. Va. Sheet-metal paneling for ceilings, &c.....	524,932	Aug. 21	1651	404	68	991
Caldwell, Frank G., Wheeling, W. Va. Metallic panel for ceilings.....	529,593	Nov. 20	1929	460	69	1037
Caldwell, Frank G., Wheeling, W. Va. Roofing implement.....	529,594	Nov. 20	1930	460	69	1037
Caldwell, John A., Bay Ridge, N. Y. Steam-boiler.....	521,204	June 12	804	189	67	1356
Caldwell, John A., Vancouver, Canada. Ellipsograph.....	530,822	Dec. 11	1304	315	69	1468
Caldwell Manufacturing Company. (See Rosentreter, Frank L., assignor.).....						
Caldwell, Peter, Jr., Warrington, England. Spade or shovel.....	519,104	May 1	281	66	67	589
Caldwell, Towson, Washington, D. C. Hair-pin.....	515,745	Mar. 6	19	5	66	1458
Caldwell, William L., Cleveland, Ohio, assignor to Cleveland Fire Proofing Company, of Illinois. Fireproof construction.....	522,193	July 3	12	4	68	5

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Calef, Joseph W., North Easton, assignor of one-half to E. W. Law, Cambridge, Mass. Drag-saw machine.	523,261	July 17	1891	475	68	386
Calhoun, Albert O. (See Walker and Calhoun.)						
Calhoun, Albert C., Harrington, Del. Barrel	526,684	Oct. 2	22	6	69	7
Calhoun, Clara S. (See Calhoun, Daniel I., assignor.)						
Calhoun, Cloud B., assignor of one-half to D. B. Wood, Boonsville, Tex. Car-coupling	515,704	Feb. 27	2848	709	66	1435
Calhoun, Daniel I., assignor to C. S. Calhoun, Chicago, Ill. Hoisting and conveying machine	513,082	Jan. 23	2256	545	66	521
Calhoun, John C. (See Gause, Benjamin, assignor.)						
Calkins, Addison N., assignor to Central Machine and Foundry Company, Quincy, Ill. Elevator controlling device	523,197	July 17	1779	447	68	365
Calkins, Almon H., Evanston, assignor to Chicago Oil Burner and Stove Company, Chicago, Ill. Oil-burner	516,363	Mar. 13	1038	247	66	1662
Calkins, Hiram C. (See Spooner and Calkins.)						
Calkins, James H., assignor of one-half to T. J. McHugh, Wakefield, Mass. Self-attaching bolt	519,172	May 1	419	101	67	618
Calkins, James H., assignor of one-half to T. J. McHugh, Wakefield, Mass. Expansible cutter	522,403	July 3	397	102	68	78
Call, Libbie A., Oshkosh, Wis. Measure for laying off dress-charts	514,063	Feb. 6	136	32, 33	66	879
Callaghan, William S., assignor of one-half to C. T. Holloway, Baltimore, Md. Pneumatic tire	514,412	Feb. 6	723	184	66	990
Callahan, Harry A., deceased, W. C. Callahan, administrator, assignor of one-half to L. L. Higgins, Bradford, Pa. Dynamite	525,188	Aug. 28	2125		68	1092
Callahan, Michael. (See McMullen, Peter, assignor.)						
Callahan, William C., administrator. (See Callahan, Harry A.)						
Callaway, John A., Lampasas, Tex. Tire-heater	521,928	June 26	2093	{ 502 503 }	67	1629
Callender, Romaine, Brantford, Canada. Electric-circuit controller	511,873	Jan. 2	206	{ 52 53 }	66	43
Callender, Romaine, Brantford, Canada. Telephone-exchange system	511,874	Jan. 2	209	{ 54 55 56 56 }	66	43
Callender, Romaine, Brantford, Canada. Telephone-exchange system	511,875	Jan. 2	244	{ 57 58 59 }	66	49
Callender, Romaine, Brantford, Canada. Electrical-circuit controller	515,108	Feb. 20	1849	{ 465 466 }	66	1233
Callender, Romaine, Brantford, Canada. Electrical-circuit controller	515,109	Feb. 20	1852	{ 466 467 }	66	1233
Callender, Romaine, Brantford, Canada. Automatic signaling transmitter	515,110	Feb. 20	1856	{ 467 467 108 109 110 }	66	1234
Callender, Romaine, Brantford, Canada. Telephone-exchange system	530,324	Dec. 4	433	{ 109 110 }	69	1294
Callender, Romaine, Brantford, Canada. Telephone-switch	530,325	Dec. 4	440	110	69	1294
Calloway, David A. (See Adams, John, assignor.)						
Calvert, James G., Gothenburg, Sweden. Feed-water heater	518,019	Apr. 10	1005	{ 252 253 }	67	202
Camden Iron Works. (See Matton, Frederick V., assignor.)						
Cameron, Alexander. (See Clark, Cameron, and Kirk.)						
Cameron, Arthur, assignor to F. C. Austin, Chicago, Ill. Well-drilling machine	512,003	Jan. 2	458	109	66	88
Cameron, Charles H., Huron, S. D. Door-check	531,361	Dec. 25	2272	541	69	1675
Cameron, Charles H., Chicago, Ill. Money-envelope	531,506	Dec. 25	2527	604	69	1724
Cameron, Elmore. (See Love, John K., assignor.)						
Cameron, James W., New York, N. Y. Hand-wheel guard	520,410	May 29	2568	621	67	1075
Cameron, Monroe A., and G. T. Dawson, Fulda, Minn., assignors to L. S. Straight, El Paso, and R. Herschel Manufacturing Company, Peoria, Ill. Harrow-disk sharpener	525,080	Aug. 28	1950	476	68	1062
Cameron, Moses H., and W. Snape, Salford, England. Machine for cutting sections of metallic beams	515,746	Mar. 6	20	5, 6	66	1459
Cameron, Neill C., Ben Wheeler, Tex. Method of and apparatus for making concrete monuments	521,929	June 26	2094	503	67	1630
Camm, Charles, Sheffield, England. Miner's pick, &c.	522,966	July 17	1363	338	68	290
Camp, James A., Minneapolis, Minn. Siphon	518,663	Apr. 24	2124	532	67	433
Campany, Milton E., Hamilton, Mich. Vapor-burner	525,331	Sept. 4	12	2	68	1153
Campbell, Albert, New Haven, Conn. Stop-cock	512,537	Jan. 9	1347	325	66	266
Campbell, Albert, Noroton Heights, Conn. Flexible joint	525,884	Sept. 11	999	225	68	1345
Campbell, Alva H., West Alexandria, Ohio. Surgical table	516,587	Mar. 13	1410	335	66	1731
Campbell, Andrew C., Waterbury, Conn. Double-acting press	526,892	Oct. 2	368	92, 93	69	69
Campbell, Andrew C., assignor to Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Automatic stop-clutch	519,173	May 1	420	102	67	618
Campbell, Andrew C., assignor to Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Double-acting toggle-press	519,174	May 1	423	{ 102 103 104 }	67	619
Campbell, Benjamin J., Altoona, Kans. Churn-motor	514,442	Feb. 13	768	197	66	1016
Campbell, Charles W. (See Austin, William F., assignor.)						
Campbell, Francis B. F., London, England. Holder for papers, pamphlets, or the like	514,987	Feb. 20	1666	417	66	1200
Campbell, Gardiner, deceased, and G. G.; H. C. and I. Campbell and M. A. Millard, executors and assignors to G. G. and H. E. Campbell, Milwaukee, Wis. Water-supply system for fire pumps or engines	518,776	Apr. 24	2326	577	67	469
Campbell, George G. (See Campbell, Gardiner and G. G.)						
Campbell, George W., et al. (See Hall, Charles W., assignor.)						
Campbell, George W., Lima, Ohio. Corn-planter	515,046	Feb. 20	1761	{ 444 445 }	66	1216
Campbell, George W., Springfield, Ohio. Corn-planter	530,326	Dec. 4	442	{ 110 111 }	69	1295
Campbell, George W., assignor of one-half to F. J. McMurray, El Paso, Tex. Water-elevator	514,616	Feb. 13	1071	268	66	1073
Campbell, Henry. (See Wagner, Marr, and Campbell.)						
Campbell, Henry, Baltimore, Md. Chalk-holder for billiard-cues	516,472	Mar. 13	1215	291	66	1695
Campbell, Henry C., et al., executors. (See Campbell, Gardiner and G. G.)						
Campbell, Henry C., assignor to W. N. Campbell, Tarrytown, N. Y. Closure for barrels, &c.	518,052	Apr. 10	1066	269	67	211
Campbell, Henry E., et al. (See Campbell, Gardiner and G. G., assignors.)						
Campbell, Henry F., assignor to G. B. James, trustee, Malden, Mass. Hoop-dressing machine	519,401	May 8	849	205	67	715

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Campbell, Hugh, Halifax, England. Oil-engine.....	523,511	July 24	2326	585	68	460
Campbell, Humphrey B., Atlanta, Ga. Shaft-setting device.....	521,306	June 12	966	233	67	1388
Campbell, Isabella, <i>et al.</i> , executors. (See Campbell, Gardiner and G. G.)						
Campbell, James, Brooklyn, N. Y. Life-guard for street-cars.....	519,402	May 8	851	206	67	715
Campbell, James, Gibson, Mich. Express-messenger's safe.....	529,779	Nov. 27	2228	531	69	1100
Campbell, James W., Ursa, Ill. Seeder and planter.....	519,986	May 15	1825	447	67	906
Campbell, James W., Ursa, Ill. Planter.....	526,436	Sept. 25	1969	469	68	1551
Campbell, James W. H., San Francisco, Cal. Food product and apparatus.....	522,822	July 10	1124	278	68	227
Campbell, John, <i>et al.</i> (See Kerwin, John, assignor.)						
Campbell, John, assignor to Pullman's Palace Car Company, Chicago, Ill. Water-closet.....	526,891	Oct. 2	367	92	69	68
Campbell, John D., Binghamton, N. Y. Nut-lock.....	515,111	Feb. 20	1860	467	66	1234
Campbell, Joseph E., assignor of one-half to E. R. Swetnam, Fairfax Station, Va. Tire-bolt wrench.....	522,104	June 26	2406	578	67	1686
Campbell, Joseph H., Chicago, Ill. Side bearing for cars.....	529,779	Dec. 11	907	222	69	1397
Campbell, Lute E., Arkansas City, Kans. Toe-weight.....	520,352	May 22	2477	600	67	1041
Campbell, Malcolm, Boston, Mass. Adjusting means for belt-shifting mechanism of roving-frames.....	525,531	Sept. 4	351	86, 87	68	1216
Campbell, Malcolm, Woonsocket, R. I. Roving-frame.....	531,156	Dec. 18	1890	449	69	1589
Campbell, Malcolm, Boston, Mass., assignor to Woonsocket Machine and Press Company, Woonsocket, R. I. Clutch.....	520,949	June 5	361	88	67	1263
Campbell, Mary L., Noyan, Canada. Hammer-guard for firearms.....	521,533	June 19	1405	325	67	1483
Campbell, Patrick F., Portage, Pa. Coal-mining machine.....	531,019	Dec. 18	1643	390	69	1544
Campbell Printing Press and Manufacturing Company. (See Wood, Henry A. W., assignor.)						
Campbell, Robert, South Haven, Mich. Milk-pail.....	527,768	Oct. 23	1793	432	69	378
Campbell, Stewart L., assignor of one-half to H. W. Rood, Kalamazoo, Mich. Electric-arc lamp.....	525,735	Sept. 11	726	167	68	1296
Campbell, Thomas R., Cambridge, Mass. Truck.....	517,642	Apr. 3	374	89	67	73
Campbell, William. (See Lehmann, Carl F. W., assignor.)						
Campbell, William H., <i>et al.</i> (See Clement, Charles E., assignor.)						
Campbell, William N. (See Campbell, Henry C., assignor.)						
Campbell, William S. (See Johnson and Campbell.)						
Campiche, Henri, Geneva, Switzerland. Electric pendulum clock.....	514,641	Feb. 13	1113	277	66	1080
Canda, Ferdinand E., New York, N. Y. Car-door.....	512,004	Jan. 2	459	109	66	88
Canda, Ferdinand E., New York, N. Y. Car-door packing.....	513,302	Jan. 23	2617	634	66	594
Canda, Ferdinand E., New York, N. Y. Refrigerator-car.....	522,105	June 26	2407	578	67	1686
Canda, Ferdinand E., New York, N. Y. Refrigerator-car.....	522,448	July 3	475	121	68	95
Canda, Ferdinand E., New York, N. Y. Refrigerator-car.....	523,512	July 24	2327	585	68	480
Canda, Ferdinand E., New York, N. Y. Street-car truck.....	525,590	Sept. 4	454	108	68	1235
Canet, Jean B. G. A., Paris, France. Recoil-check for ordnance.....	522,508	July 3	564	146	68	111
Canet, Jean B. G. A., Paris, France. Firing mechanism for ordnance.....	522,509	July 3	567	146	68	112
Canet, Jean B. G. A., Paris, France, assignor of one-half to Sir Joseph Whitworth & Company, Limited, Openshaw, England. Gun-mounting.....	513,706	Jan. 30	3310	815	66	757
Canet, Jean B. G. A., Paris, France, assignor of one-half to Sir Joseph Whitworth & Company, Limited, Openshaw, England. Torpedo-launching tube.....	514,810	Feb. 13	1328	349	66	1134
Canet, Jean B. G. A., Paris, France, assignor of one-half to Sir Joseph Whitworth & Company, Limited, Manchester, England. Safety breech-lock for guns.....	519,661	May 8	1302	311	67	795
Canet, Jean B. G. A., Paris, France, assignor of one-half to Sir Joseph Whitworth & Company, Limited, Openshaw, England. Automatically-operated breech mechanism for guns.....	521,400	June 12	1148	272	67	1421
Canet, Jean B. G. A., Paris, France, assignor of one-half to Sir Joseph Whitworth & Company, Limited, Manchester, England. Recoil-actuated hydraulic breech-operating mechanism for ordnance.....	531,157	Dec. 18	1891	450	69	1590
Canonsburg Iron and Steel Company. (See Budke, John F., assignor.)						
Cannell, William, Lynn, Mass. Ferrule-machine.....	522,647	July 10	812	203	68	172
Canney, Joseph, Butte, Mont. Nipple-holder.....	524,777	Aug. 21	1385	337	68	945
Cannon, Arnout. (See Florence, George L., assignor.)						
Cannon, Charles T., Foley, Mo. Post-driver.....	513,379	Jan. 23	2733	664	66	615
Cannon, Corodon S., Battle Creek, Mich. Metallic vehicle-wheel.....	517,791	Apr. 3	628	157	67	122
Cannon, Louis C., <i>et al.</i> (See Harris, William A. and B. S. H., assignors.)						
Cannot, Gustave A., London, England. Material for insulating electric wires.....	515,192	Feb. 20	1992		66	1259
Cannot, Gustave A., London, England. Apparatus for the manufacture of chlorin mon-oxid.....	523,262	July 17	1892	476	68	387
Cannot, Gustave A., London, England. Manufacturing hypochlorous acid.....	523,263	July 17	1893	476	68	387
Cannot, Gustave A., London, England. Material for making electric-light filaments.....	523,264	July 17	1895		68	387
Cantine, Martin. (See Jewett, Francis A., assignor.)						
Canton Steel Roofing Company. (See Belding, Thomas C., assignor.)						
Cantz, Charles W., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Ingot-casting mold.....	512,005	Jan. 2	462	110	66	89
Capehart, Alexander S., Bismark, N. D. Matrix-bar and making same.....	529,440	Nov. 20	1665	396	69	989
Capers, Julius T., Charleston, S. C. Grinding-mill.....	514,642	Feb. 13	1114	278	66	1081
Capewell, George J., Hartford, Conn. Combination-tool.....	519,033	May 1	154	36, 37	67	566
Capewell, George J., Hartford, Conn. Nail-puller.....	519,034	May 1	156	37	67	566
Capital Cash Register Company. (See Cook, George F., assignor.)						
Capital City Carriage Company. (See Saurbrey, George J., assignor.)						
Capper, Charles, Wilkinsburg, assignor of one-half to W. D. Corcoran, Pittsburg, Pa. Apparatus for casting crucible-steel.....	529,321	Nov. 13	1430	344	69	927
Caps, John E., Kansas City, Mo. Machine for trimming printers' plates.....	513,031	Jan. 16	2190	523	66	439
Carbone, Giovanni G., Genoa, Italy. Paper box for matches.....	518,687	Apr. 24	2162	541	67	441
Card Electric Company. (See Card, George F., assignor.)						
Card Equipment Company. (See Card, George F., assignor.)						
Card, Frank S. (See Card, William L. and F. S.)						
Card, George F., Covington, Ky., assignor to Card Equipment Company, Mansfield, Ohio. Commutator for dynamo-electric machines.....	524,884	Aug. 21	1565	382	68	977
Card, George F., Covington, Ky., assignor to Card Electric Company, Mansfield, Ohio. Electric switch.....	525,332	Sept. 4	14	3	68	1153
Card, Warren C., Mead, Mich. Hay-loader.....	512,096	Jan. 2	611	147	66	117
Card, William L. and F. S., St. Louis, Mo. Apparatus for concentrating ores.....	519,987	May 15	1827	448	67	906

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Cardarelli, Emilio, Sumter, S. C. Fire-escape truck	516,346	Mar. 13	990	{ 235 236	66	1654
Cardarelli, Emilio, assignor of one-half to G. W. Dick, Sumter, S. C. Fire-escape truck ...	519,234	May 1	529	{ 127 128	67	640
Carden, Godfrey L. (See See and Carden.)						
Carder, George H., assignor of one-half to A. L. Winters, Chicago, Ill. Seam-ripper	514,811	Feb. 13	1390	350	66	1134
Carey, Augustus C., Lake Pleasant, Mass. Incandescent lamp	512,464	Jan. 9	1238	299	66	246
Carey, Augustus C., Lake Pleasant, Mass. Incandescent lamp	517,432	Apr. 3	16	4	67	6
Carey, Michael, New York, N. Y. Envelope	531,302	Dec. 25	2166	518	69	1655
Carey, Philip, Cincinnati, Ohio. Fastening for non-conducting coverings	526,022	Sept. 18	1218	281	68	1398
Carey, Samuel. (See Hartshorn, Willis N., assignor.)						
Carey, Wilson W., Lowell, Mass. Ring oiler-bearing	528,714	Nov. 6	333	81	69	707
Carkeek, Morgan J., Seattle, Wash. Shingle-package	524,479	Aug. 14	889	219	68	841
Carlaw, John A., and M. J. Teedy, Toronto, Canada; said Teedy assignor to said Carlaw. Bag for transporting money, &c.	513,756	Jan. 30	3387	835	66	771
Carles, Anatole C., Portland, Me. Automatic circuit-breaker	524,630	Aug. 14	1141	289	68	888
Carleton, Edward H., Jr., Brooklyn, N. Y. Shirt-bosom protector	515,650	Feb. 27	2754	686	66	1417
Carleton, Ernest W., and J. M. Odell, Austin, Tex. Refrigerating apparatus	527,831	Oct. 23	1897	{ 455 456	69	396
Carlie, George F., assignor of one-half to D. Buckner, New York, N. Y. Cigarette-cutting machine	515,730	Feb. 27	2885	720	66	1442
Carlinet, John G., assignor of seven-tenths to J. Wolstoncroft, W. O'Neill, and W. H. Soley, Philadelphia, Pa. Pneumatic tool	526,342	Sept. 18	1767	419	68	1502
Carling, Albert G., Ellenville, N. Y. Fountain marking-brush	525,259	Aug. 28	2224	541	68	1110
Carlisle, William N., assignor of one-half to G. H. Paine, Detroit, Mich. Toe-weight	518,206	Apr. 10	1329	332	67	260
Carlson, Adolph F., Attica, Ind. Insect-trap for trees, &c.	529,643	Nov. 20	2007	480	69	1051
Carlson, Andrew. (See Stromberg and Carlson.)						
Carlson, Andrew W., Butte, Mont. Fire-escape	513,757	Jan. 30	3388	835	66	771
Carlson, Andrew W. (See Stromberg and Carlson.)						
Carlson, Charles, Deer Trail, Colo. Wrench	520,392	May 22	2538	613	67	1053
Carlson, Conrad, Brooklyn, N. Y. Hanger apparatus for use in laying fireproof flooring ..	527,383	Oct. 9	1159	284	69	230
Carlson, Edward, Chicago, Ill. Power-converter	531,408	Dec. 25	2344	559	69	1689
Carlson, Fredrik, Chicago, Ill. Bridge-gate	514,064	Feb. 6	137	33	66	879
Carlson, Fredrik, Chicago, Ill. Railway-gate	526,770	Oct. 2	168	39, 40	69	32
Carlson, Gabriel, Minneapolis, Minn. Machine for scouring or cleaning candies	527,590	Oct. 16	1503	366	69	307
Carlson, Gabriel, Minneapolis, Minn. Apparatus for scouring and cleaning candies	527,662	Oct. 16	1617	390	69	328
Carlton, Harvey B., Rochester, N. Y. Camera-shutter	512,601	Jan. 9	1441	348	66	284
Carlyle, George, assignor to Standard Pearl Button Company, Limited, Detroit, Mich. Button-machine	520,913	June 5	296	72	67	1251
Carlyle, George, Detroit, Mich., assignor to H. W. Cronse, trustee, New York, N. Y. But- ton-drilling machine	520,914	June 5	298	72	67	1251
Carlyle, George, assignor to Standard Pearl Button Company, Limited, Detroit, Mich. Apparatus for forming pearl buttons	522,044	June 26	2307	{ 553 554 555	67	1668
Carmack, John W., assignor of one-half to J. M. Millen, Dyersburg, Tenn. Hay-press	512,465	Jan. 9	1239	{ 299 300	66	246
Carman, Charles L., assignor to Gates Iron Works, Chicago, Ill. Stone-crusher	525,402	Sept. 4	149	37, 38	68	1178
Carman, Charles L., assignor to Gates Iron Works, Chicago, Ill. Portable stone-crusher ..	525,403	Sept. 4	151	38	68	1178
Carman, Charles L., assignor to Gates Iron Works, Chicago, Ill. Bearing for gyratory shafts or other analogous mechanism	525,404	Sept. 4	153	39	68	1178
Carman, Charles L., and P. W. Gates, assignors to Gates Iron Works, Chicago, Ill. Stone- crusher	530,087	Dec. 4	18	4, 5, 6	69	1218
Carman, Charles L., E. E. Hanna, and P. W. Gates, assignors to Gates Iron Works, Chi- cago, Ill. Gyrating crusher	525,443	Sept. 4	214	53	68	1190
Carman, Isaac L., North Salem, assignor of one-half to J. H. McGee, Max, Ind. Tire- tightener	517,813	Apr. 3	662	165	67	128
Carmichael, Henry, Malden, Mass. Method of and apparatus for electrochemical decom- position	518,710	Apr. 24	2209	{ 551 552 553	67	448
Carmichael, Henry, Malden, Mass. Magnetic separator	521,906	June 26	2046	493	67	1621
Carmichael, William T. (See Waggoner and Carmichael.)						
Carmonth, Harriett, London, England. Starter or brake for vehicles	514,812	Feb. 13	1391	350	66	1134
Carnahan, Charles M., Newport, Ky., assignor to Globe Company, Cincinnati, Ohio. En- velope	521,431	June 12	1202	285	67	1430
Carnduff, Edward, What Cheer, Iowa. Coal or rock drilling machine	526,294	Sept. 18	1683	397	68	1483
Carnes, John, assignor of two-thirds to J. Walters and A. H. Middleton, Youngstown, Ohio. Railway switch-rod	518,020	Apr. 10	1008	253	67	202
Caron, François X., Methuen, Mass. Weaver's measuring device	523,759	July 31	2759	685	68	576
Carothers, Samuel O. (See Reed and Carothers.)						
Carpenter, Adelbert, assignor to Monitor Manufacturing Company, Minneapolis, Minn. Grain-drill	520,843	June 5	162	36	67	1227
Carpenter, Amos H., Stockton, Cal. Marine propeller	516,261	Mar. 13	865	201	66	1630
Carpenter, Charles F., Louisville, Ky. Electromagnetic tool	519,662	May 8	1304	311	67	795
Carpenter, Charles W., et al. (See Crowell, Luther C., assignor.)						
Carpenter, Charles W., et al. (See Roesen, Oscar, assignor.)						
Carpenter, Daniel A., New York, N. Y. Machine for attaching buttons to garments	519,788	May 15	1513	{ 368 369	67	848
Carpenter, Daniel A., New York, N. Y. Machine for attaching buttons to garments	525,133	Aug. 28	2023	495	68	1075
Carpenter, Daniel H., Orlando, Fla. Wrench	515,070	Feb. 20	1798	454	66	1223
Carpenter, Delos, Orion, Mich. Combined slide and buckle	528,628	Nov. 6	182	44	69	679
Carpenter, Dou A. (See Winder and Carpenter.)						
Carpenter, Edwin S., Sewickley, Pa. Nut-lock	517,185	Mar. 27	2447	576	66	1960
Carpenter, Elmer E., Worcester, Mass. Mixing-board	529,706	Nov. 27	2111	506	69	1080
Carpenter, George M., et al. (See Chace, James S., assignor.)						
Carpenter, George W., Toledo, Ohio. Automatically-operated railway-switch	524,885	Aug. 21	1566	382	68	977
Carpenter, Henry L. (See Stamm, Fred C., assignor.)						
Carpenter, Hiram H., St. Louis, Mo. Secondary battery	514,266	Feb. 6	494	121	66	946
Carpenter, Horatio N., Riley, Mich. Loading apparatus	519,988	May 15	1836	448	67	908
Carpenter, James C., et al. (See Markley, John A., assignor.)						
Carpenter, John L., Auburn, N. Y. Vise	528,074	Oct. 23	2351	567	69	479
Carpenter, John W., Bridgewater, Va. Coffee-boiler	523,656	July 31	2561	642	68	542
Carpenter, Rolla C., Ithaca, N. Y., assignor to Schäffer & Budenberg, Magleburg-Buckan, Germany, and New York, N. Y. Apparatus for testing indicator-springs and steam-gages.	519,235	May 1	535	129	67	641
Carpenter, Rolla C., Ithaca, N. Y., assignor of one-half to C. M. Giddings, Rockford, Ill. Governor	526,856	Oct. 2	307	75	69	58

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Carpi, Vittorio, Chicago, Ill. Voice-rectifier	527,235	Oct. 9	911	230	69	185
Carr, Alexander, Chambersville, Ark. Agricultural machine	512,006	Jan. 2	463	110	66	89
Carr, Austin C., <i>et al.</i> (See Rigby, Brierley K., assignor.)						
Carr, Charles H., Lynn, Mass. Bicycle	518,777	Apr. 24	2329	577	67	470
Carr, Elijah W., San Antonio, Tex. Paper-folder	512,944	Jan. 16	2060	488	66	415
Carr, Elmer E. (See Ingram and Carr.)						
Carr, Erasmus T., Miles City, Mont. Sectional boiler	512,679	Jan. 16	1573	378	66	324
Carr, Florence M., assignor to F. M. Carr Manufacturing Company, Chicago, Ill. Ornamental grille-work	519,663	May 8	1305	312	67	796
Carr, Israel L., Toronto, Canada. Portable chemical fire-extinguisher	524,377	Aug. 14	722	175	68	810
Carr, John, Philadelphia, Pa., assignor of one-half to J. Erickson, Gloucester, Mass. Bicycle	528,145	Oct. 30	2483	601	69	518
Carr, Joseph J., assignor to Wilkes-Barré Molding Machine Company, Wilkes-Barré, Pa. Pattern for making car-wheels	512,945	Jan. 16	2062	488	66	416
Carr, Joseph J., assignor to Wilkes-Barré Molding Machine Company, Wilkes-Barré, Pa. Forming molds for casting car-wheels	512,946	Jan. 16	2063	489	66	416
Carr, Obed W. (See Farrar, William B., assignor.)						
Carr, Oma, Washington, D. C. Apparatus for charging sugar-cane carriers	517,730	Apr. 3	528	128 } 129 }	67	103
Carr, Rimmon J., Rothbury, Mich. Fence	530,391	Dec. 4	555	138	69	1316
Carr, Robert, Newburg, N. Y. Fifth-wheel for vehicles	518,688	Apr. 24	2163	541	67	441
Carr, Robert S., Hamilton, Ohio. Saw-handle	516,473	Mar. 13	1217	291 } 292 }	66	1695
Carr, Robert S., Hamilton, Ohio, assignor to F. C. Ball, Muncie, Ind. Jar-fastening	517,433	Apr. 3	18	4	67	6
Carr, William L., Milford, N. H. Seal	515,747	Mar. 6	21	7	66	1459
Carrick, John. (See Malone, Frank P., assignor.)						
Carrick, Robert A. (See Delabarre, Frazer, and Carrick.)						
Carrington, Edward L., Bristol, Conn. Apparatus for automatically polishing articles of manufacture	528,852	Nov. 6	604	143	69	756
Carriogton, John B. (See Elliott and Carrington.)						
Carrithers, Fred A., Pekin, Ill. Nut-wrench	512,007	Jan. 2	464	111	66	89
Carroll, Charles J., <i>et al.</i> (See Asstetton, William, assignor.)						
Carroll, Charles J., assignor of two-thirds to D. Stewart and W. Ashton, Baltimore, Md. Cash-register	522,823	July 10	1124	279	68	228
Carroll, Edgar J., assignor to W. T. Carroll, Worcester, Mass. Spindle-bearing	523,849	July 31	2928	729	68	607
Carroll, Edgar J., assignor to W. T. Carroll, Worcester, Mass. Spindle-retainer	523,909	July 31	3023	752	68	625
Carroll, Edgar J., assignor to W. T. Carroll, Worcester, Mass. Spring-nut for spindle-supports	528,361	Oct. 30	2854	691	69	585
Carroll, Edgar J., assignor to W. T. Carroll, Worcester, Mass. Spindle-bearing	528,362	Oct. 30	2855	692	69	585
Carroll, John, Belfast, Ireland. Pneumatic saddle for cycles	516,364	Mar. 13	1043	243	66	1602
Carroll, John, assignor to Chicago Stamping Company, Chicago, Ill. Machine for flanging sheet metal	519,527	May 8	1077	258 } 259 }	67	755
Carroll, Thomas, assignor to Hubinger Carroll Cash Register Company, New Haven, Conn. Cash-register	521,332	June 12	1027	241 } 242 }	67	1397
Carroll, Thomas, assignor to Hubinger Carroll Cash Register Company, New Haven, Conn. Total-adding cash-register	521,333	June 12	1031	243 } 244 }	67	1397
Carroll, Thomas, assignor to Hubinger Carroll Cash Register Company, New Haven, Conn. Cash register and indicator	521,334	June 12	1043	245	67	1400
Carroll, Thomas P., Franklin Furnace, N. J. Car-coupling	519,696	May 15	1362	329	67	820
Carroll, William T. (See Carroll, Edgar J., assignor.)						
Carron, Pierre J. C., Pont-de-Claix-Isère, France. Brush for dynamo-electric machines	530,088	Dec. 4	22	6	69	1219
Carse, John B., assignor to T. Kane, Chicago, Ill. Gas-engine	518,177	Apr. 10	1266	319	67	246
Carse, John B., assignor to T. Kane, Chicago, Ill. Gas-engine	518,178	Apr. 10	1267	319	67	246
Carson, Robert N., and A. A. Martin, assignors to E. T. Allen Company, San Francisco, Cal. Boxing-glove	522,106	June 26	2410	579	67	1686
Carson, William, Jr., <i>et al.</i> (See Lyon, William, assignor.)						
Carstein, Hans L., Cambridge, Mass. Coal-conveyer	520,133	May 22	2104	511 } 512 }	67	971
Carsten, John, Lanham, Kans. Reeling-machine	513,083	Jan. 23	2258	545	66	522
Carstens, Alexander, and D. J. McCormack, Aspen, Colo. Automatic ore-feeder	522,779	July 10	1058	261	68	216
Carstens, Charles B., administrator. (See Müller, Charles L. F.)						
Carswell, Henry G., Santa Clara, Cal., assignor, by mesne assignments, to E. J. Albert, Philadelphia, Pa. Musical instrument	515,323	Feb. 27	2236	553 } 554 }	66	1317
Carter, Albert S., assignor of one-half to S. D. Wright, Philadelphia, Pa. Bicycle tool-box	514,542	Feb. 13	943	238	66	1048
Carter, Alfred C., Greenfield, Iowa. Ditching-machine	531,097	Dec. 18	1779	424	69	1568
Carter, Byron B., assignor to M. C. Bullock Manufacturing Company, Chicago, Ill. Intercepting-valve	513,084	Jan. 23	2259	546	66	522
Carter-Brake Company. (See Carter, Clarence W., assignor.)						
Carter, Charles, and A. H. Bell, Tooele county, Utah Ter., and C. T. Boehm, New York, N. Y. Apparatus for precipitating gold and silver from cyanide solutions	513,174	Jan. 23	2407	581	66	552
Carter, Charles W. (See Seaberg, John A. W., assignor.)						
Carter, Clarence W., assignor to Carter Car-Brake Company, Minneapolis, Minn. Car-brake. Carter-Crume Company. (See Kinnard, Will M., assignor.)	520,821	June 5	116	25, 26	67	1218
Carter, Dinsmore & Co. (See Hopkins, Robert G., assignor.)						
Carter, Edward A., <i>et al.</i> (See Sweetland, Jerome B., assignor.)						
Carter, Henry C., East Orange, N. J. Cover for butter-receptacles, &c.	521,634	June 19	1577	368	67	1514
Carter, Isaac T., Indianola, Iowa. Folding poultry-coop	521,781	June 26	1841	438	67	1580
Carter, John B., Kokomo, Ind. Fiber-disintegrating machine	515,193	Feb. 20	1993	496	66	1259
Carter, John F. (See Walker and Carter.)						
Carter, John J. (See Carter, William J. and J. J.)						
Carter, John J. (See Reel, John, assignor.)						
Carter, John T., Brookland, assignor of one-fourth to S. J. Haislett, Washington, D. C. Automatic railway-signal	530,013	Nov. 27	2656	637	69	1183
Carter, Joseph, Blyth, Canada. Checkrein-support	521,015	June 5	470	112	67	1281
Carter Machine Company. (See Helm, Thomas W., assignor.)						
Carter, Redin O., Kirkland, Ga. Apparatus for distilling crude turpentine	526,613	Sept. 25	2242	535	68	1601
Carter, Richard B., assignor of one-half to S. E. Kemp, Blair, Nebr. Door-check	514,643	Feb. 13	1115	278	66	1081
Carter, Thomas H., Walnut, Miss. Brake for side-har vehicles	521,459	June 19	1274	297	67	1460
Carter, William, J. W. Dawson, and J. Meyrick, Jr., assignors of one-fourth to H. F. Donegan, Louisville, Ky. Signal-light fixture	520,820	June 5	114	25	67	1218
Carter, William B., Mexia, Tex. Ant-trap	523,921	Nov. 13	748	175	69	803
Carter, William J. and J. J., Dublin, Ga. Journal-bearing	520,295	May 22	2377	577	67	1022

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Carter, William L., and O. C. Hinman, Los Angeles, Cal. Composite material and manufacture of same	516,999	Mar. 20	2098	496	66	1876
Carter, William T., Paterson, N. J., assignor to Columbia Novelty and Advertising Company, of New Jersey. Combination game or puzzle	524,703	Aug. 21	1261	311	68	922
Cartledge, William R., Guelph, Canada, assignor of one-half to Why Brothers & Co., Philadelphia, Pa. Knit-fabric and method of and apparatus for producing same	525,091	Aug. 28	1951	477	68	1062
Cartwright, David J., Boston, Mass. Rosette for electric-light wires	525,315	Aug. 28	2322	562	68	1130
Cartwright, David J., Boston, Mass. Incandescent electric lamp	526,145	Sept. 18	1431	335	68	1436
Cartwright, David J., Boston, Mass. Plug and receptacle for electrical purposes	530,066	Nov. 27	2749	659	69	1200
Cartwright, David J., Boston, Mass. Arc-light hanger-board	530,882	Dec. 11	1401	{ 333 334 }	69	1485
Cartwright, Edwin, assignor of one-half to W. Doyle, Milwaukee, Wis. Blast-feeding apparatus for furnaces	525,045	Aug. 28	1866	456	68	1048
Carty, John J., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Telephone-transmitter from secondary batteries	518,392	Apr. 17	1664	410	67	337
Carvalho, David N., New York, N. Y. Paper for bank-notes, checks, bonds, stocks, and other instruments	531,507	Dec. 25	2527	.....	69	1724
Carvor Cotton Gin Company. (See Churchill and Baxter, assignors.)						
Carver, Harry. (See Walker and Carver.)						
Carver, James W. (See Hulett, Elvira, assignor.)						
Carver, James W., assignor to Carver Manufacturing Company, Middle Granville, N. Y. Bale or bundle tie	516,185	Mar. 13	733	172	66	1605
Carver, James W., Auburn, assignor to himself, and A. L. Childs, Canton, Me. Table	526,144	Sept. 18	1428	334	68	1436
Carver Manufacturing Company. (See Carver, James W., assignor.)						
Carver, Thomas F. (See McMahon and Carver.)						
Carville, Katharine J. C., New York, N. Y. Parcel-delivery system	530,747	Dec. 11	1189	290	69	1446
Cary, Henry B., Los Angeles, Cal. Car-brake	517,601	Apr. 3	300	69	67	59
Cary, James H., Malden, assignor of one-half to L. P. Bryant, Northampton, Mass. Signaling apparatus for telephone-exchange systems	529,894	Nov. 27	2425	{ 582 583 }	69	1138
Cary Safe Company. (See Goehler, George J. H., assignor.)						
Cary, William H., et al. (See Anstin, William H., assignor.)						
Cascaden, Thomas, Jr., Waterloo, Iowa. Combined rendering kettle and furnace	522,566	July 10	707	180	68	154
Cascaden, Thomas, Jr., Waterloo, Iowa. Feed-grinder	525,976	Sept. 11	1143	260	68	1372
Case, Alfred W., Highland Park, Conn. Propeller. (Reissue)	11,399	Jan. 23	2890	712	66	645
Case, Alfred W., Highland Park, Conn. Screw-propeller	517,025	Mar. 27	2158	511	66	1904
Case, Alfred W., Highland Park, Conn. Screw-propeller	527,045	Oct. 9	615	149	69	130
Case, Amos. (See Stevens and Case.)						
Case, Charles W. (See Pattee and Case.)						
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Door-stop	523,146	Oct. 30	2484	601	69	518
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Door-knob	528,147	Oct. 30	2485	602	69	518
Case, Cromwell O., assignor to P. & F. Corbin, New Britain, Conn. Door check or closer	528,853	Nov. 6	605	{ 143 144 }	69	756
Case, David W. (See Allen, Ethan, assignor.)						
Case, Estella, New York, N. Y. Bustle	517,434	Apr. 3	19	4	67	6
Case, Frank E., Canton, Ohio. Surgical chair	530,159	Dec. 4	138	37	69	1240
Case, Frank J., Arrington, assignor of one-third to G. T. Challis, Atchison, Kans. Rail-way weed-mower	511,752	Jan. 2	20	5, 6	66	7
Case, J. H. (See Thompson, Charles, assignor.)						
Case, Joel T., Bristol, Conn. Steam-engine	516,430	Mar. 13	1141	{ 271 272 273 }	66	1681
Case, Joseph D., Plainfield, N. J. Keyboard attachment for musical instruments	529,895	Nov. 27	2427	583	69	1138
Case, Levi W. (See Sheldon, Ceverda B., assignor.)						
Case Manufacturing Company. (See Burner, Daniel E., assignor.)						
Case, Wendell P., Middleborough, Mass. Shoe-fastening	513,085	Jan. 23	2261	546	66	523
Case, Willard E., Auburn, N. Y. Manufacturing aluminium	512,801	Jan. 16	1806	.....	66	369
Case, Willard E., Auburn, N. Y. Manufacturing aluminium	512,802	Jan. 16	1807	.....	66	369
Case, Willard E., Auburn, N. Y. Making aluminium compounds	512,803	Jan. 16	1808	.....	66	369
Cassella & Co., Leopold. (See Weinberg, Arthur, assignor.)						
Casey, Henry, assignor of one-half to F. H. Strong, West Hartford, Conn. Halter	528,760	Nov. 6	419	101	69	722
Casey, James. (See Warren and Casey.)						
Casey, John, Baltimore, Md., assignor to J. Stelwagon's Son, Philadelphia, Pa. Stamping and punching machine	512,097	Jan. 2	612	{ 147 148 }	66	118
Casey, Selden S., London, Canada. Wire-fabric tool	521,635	June 19	1578	369	67	1514
Casey, Selden S., H. M. Kay, and H. A. Stringer, London, Canada. Grip wire-fence tool	512,360	Jan. 9	1038	254	66	203
Casey, William H., Boston, Mass. Coupling-link	529,896	Nov. 27	2428	583	69	1139
Cash, Arthur W., assignor to Armstrong Manufacturing Company, Bridgeport, Conn. Pipe threading and cutting-off machine	519,175	May 1	425	104	67	620
Casler, Charles R. (See Walrath, Robert, assignor.)						
Casler, Herman, Syracuse, assignor of one-half to H. N. Marvin, Schenectady, N. Y. Camera	517,539	Apr. 3	198	45	67	40
Caspar Automatic Patent Company. (See Matteson, George F., assignor.)						
Caspar Automatic Patent Company. (See Williams, Orion H., assignor.)						
Caspar, William, Milwaukee, Wis. Spark-arrester	530,392	Dec. 4	556	138	69	1317
Casper, Charles F., and T. S. Darling, Conewango, N. Y. Clothes-drier	519,378	May 8	808	197	67	707
Cass, John A., assignor of one-half to N. Hall, Ipaia, Ill. Harrow-disk sharpener	528,922	Nov. 13	749	176	69	803
Cass, Louis S., et al. (See Butterfield, Fessenden C., assignor.)						
Cassaday, Ernest R., and W. Weaver, Philadelphia, Pa. Lumber-load binder	518,267	Apr. 10	1330	332	67	260
Cassard, Harry L., Baltimore, Md. Puzzle	519,959	May 15	1836	449	67	908
Cassard, Herbert. (See Woods, Hampton, assignor.)						
Cassard, Herbert, assignor of one-half to H. Woods, Chicago, Ill. Water-purifier	525,316	Aug. 28	2324	563	68	1131
Cassel, A. M., et al. (See Armistead, Fabian H., assignor.)						
Cassel, Henry B., et al. (See Weyline, Henry E., assignor.)						
Cassella & Co., Leopold. (See Hoffmann and Daimler, assignors.)						
Cassella & Co., Leopold. (See Hoffmann and Krohn, assignors.)						
Cassella & Co., Leopold. (See Weinberg, Arthur, assignor.)						
Cassidy, John C., East Orange, N. J. Electric switch or cut-out	529,363	Nov. 20	1505	362	69	961
Cassidy, John C., East Orange, N. J. Electric switch and cut-out	529,595	Nov. 20	1352	460	69	1037
Cassidy, Joseph A., and W. A. Butler, New York, N. Y. Conduit electric railway	515,572	Feb. 27	2653	654	66	1393
Cassidy, William A., Amarillo, Tex. Quilting attachment for sewing-machines	514,443	Feb. 13	770	197	66	1016
Casson, John J. (See Casson, William N., assignor.)						
Casson, William N., assignor of one-half to J. J. Casson, Marinette, Wis. Hose-reel	517,731	Apr. 3	531	129	67	103
Caswell, Richard H., assignor to C. H. Slawson, S. King, Ingersoll, and J. S. Pearce, London, Canada. Milk-purifier	517,814	Apr. 3	663	166	67	129

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Castaing, Jean M., and J. B. Dohin, New Orleans, La. Rain-water cut-off	529,596	Nov. 20	1934	460	69	1038
Castelow, Wilbur E., Meriden, Conn. Game apparatus	522,704	July 10	902	222	68	189
Castle, Lewis D., Greensburg, Pa., assignor to J. T. Kelly, Brooklyn, N. Y., and G. M. Jones, Pittsburg, Pa. Machine for reaming and tapping valves	512,155	Jan. 2	715	{ 173 174 }	{ 66 66 }	137
Castle, Lewis D., Greensburg, Pa., assignor to J. T. Kelly, Brooklyn, N. Y., and G. M. Jones, Pittsburg, Pa. Valve	530,393	Dec. 4	558	138	69	1317
Castle, Peter C. D. (See Hanson, Castle, and Morrison.)						
Castle, William H., assignor of one-half to G. W. Cole, North East, Pa. Car-coupling	512,242	Jan. 2	846	205	66	160
Castleman, William I., assignor of one-half to P. G. Ditterline, Allen's Spring, Ill. Portable furnace	519,236	May 1	536	129	67	642
Castner, Hamilton Y., London, England. Electrolytic apparatus	518,135	Apr. 10	1194	300	67	234
Castner, Hamilton Y., London, England. Process of and apparatus for electrolytic decomposition of alkaline salts	528,322	Oct. 30	2787	673	69	573
Caswell, Frederick K. (See Wiley, Charles T., assignor.)						
Caswell, Tracy B., Denver, Colo. Perforating strips for type-setting machines	523,760	July 31	2761	{ 685 686 }	{ 68 68 }	576
Catanach, Adam A., et al. (See Shank, Charles A., assignor.)						
Catchpole, Alfred, Geneva, N. Y. Damper-regulator	514,444	Feb. 13	771	198	66	1016
Cate, Martin L. (See McNeil and Kohlhepp, assignors.)						
Cate, William W. (See Hubbell and Cate.)						
Cates, Owen G., Jr., St. Louis, Mo. Railway-car	517,517	Apr. 3	166	37	67	34
Cates, Owen G., Jr., St. Louis, Mo. Search-light	521,601	June 19	1517	355	67	1503
Cates, Owen G., Jr., St. Louis, Mo. Trolley-pole catcher	521,602	June 19	1518	355	67	1503
Catlin, Ephron, and G. Rein, assignors to St. Louis Register Company, St. Louis, Mo. Street-car register	530,067	Nov. 27	2751	660	69	1200
Catlin, Ephron, and G. Rein, assignor to St. Louis Register Company, St. Louis, Mo. Fare-register	531,020	Dec. 18	1644	390	69	1544
Cattanach, John A., Fort Reno, Okla. Ter. Valve	517,093	Mar. 27	2288	539	66	1923
Cattori, Michel A., Rome, Italy. Series electric railway	514,303	Feb. 6	570	{ 142 143 118 119 }	{ 66 66 69 69 }	960 91
Cattori, Michelangelo, Rome, Italy. Conduit for electric railways	526,963	Oct. 2	481	119	69	91
Cattlow, Edward, Philadelphia, Pa. Manufacturing chenille	520,400	May 22	2547	615	67	1055
Cauble, Daniel B., Spencer, Ind. Scythe-rack	528,148	Oct. 30	2486	602	69	518
Caustic Soda and Chlorine Syndicate. (See Greenwood, James, assignor.)						
Cavalier, Peter F., Clyde, Ohio. Check-hook	518,937	May 1	5	1	67	537
Cavallaro Francesco, San José, Cal. Attachment for Artesian wells	524,666	Aug. 14	1196	293	68	898
Cavanaugh, Edward, Springfield, Ohio. Combination-tool	523,850	July 31	2930	730	68	608
Cavanaugh, James D., Lebanon, assignor to N. S. Althouse and J. H. Knoll, Reading, Pa. Washing-machine	527,360	Oct. 9	1119	{ 273 274 }	{ 69 69 }	222
Cavanaugh, John, Evanston, Ill. Bicycle-saddle	512,008	Jan. 2	465	111	66	89
Cavers, William, Owen Sound, Canada. Combined shaft-support and antirattler	522,824	July 10	1127	279	68	228
Cawdery, John W., London, England. Gravity-railway	518,224	Apr. 17	1367	342	67	283
Cawley, George, London, England. Steam-boiler	518,443	Apr. 17	1754	435	67	354
Cayce, John M., Nashville, Tenn. Compensated-pendulum motor	513,878	Jan. 30	3378	{ 880 881 }	{ 66 67 }	809 1022
Cayley, Claud T., London, England. Manufacture of metal tubes	520,296	May 22	2379	577	67	1022
Cayley, Claud T., and R. S. Courtman, London, England, assignors to United States Projectile Company, Brooklyn, N. Y. Making tubular articles	529,597	Nov. 20	1935	461	69	1038
Cazin, Ernest, West Hoboken, N. J. Lock	523,736	July 31	2732	674	68	569
Cazin, Francis M. F., Hoboken, N. J. Incandescent electric lamp	523,460	July 24	2230	561	68	463
Cazin, Francis M. F., Hoboken, N. J. Electric incandescent lamp	523,461	July 24	2234	561	68	463
Cecchi, Luigi, Genoa, Italy. Coin-freed delivery apparatus	525,692	Sept. 11	641	{ 150 151 }	{ 68 68 }	1282
Celluloid Company. (See Stevens, John H., assignor.)						
Central Cycle Manufacturing Company. (See Wainwright, Lucius M., assignor.)						
Central Machine and Foundry Company. (See Callins, Addison N., assignor.)						
Ceovich, Pasco, Seattle, Wash. Carpet-fastener	521,534	June 19	1406	325	67	1483
Ceramic Paving Stone Company. (See Krahe, Carl, assignor.)						
Cereal Machine Company. (See Perky, Henry D., assignor.)						
Ceresole, Maurice, Neuville-sur-Saône, France, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Rhodamin dye	516,588	Mar. 13	1412	.....	66	1731
Ceresole, Maurice, Neuville-sur-Saône, France, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Rhodamin dye	516,589	Mar. 13	1414	.....	66	1731
Cernak, Vaclav, Cleveland, Ohio. Washing-machine	517,839	Apr. 10	697	177	67	150
Chable, August F., Cleveland, Ohio. Liquid-emptying device for cans	524,754	Aug. 21	1348	329	68	938
Chace, George M., Somerset, Mass. Danger-signal	530,883	Dec. 11	1403	334	69	1486
Chace, James S., Brockton, assignor of two-thirds to G. M. Carpenter, Everett, and F. W. Sisson, Fair Haven, Mass. Thrust-bearing for wheels, &c.	518,393	Apr. 17	1665	411	67	337
Chadbourne, Zebulon L., assignor to T. Adams, Brooklyn, N. Y. Bicycle-crank	515,421	Feb. 27	2401	595	66	1348
Chadwell, James, Defoe, Ky. Hand-planter	520,726	May 29	3102	751	67	1172
Chadwick, Horace E., Howard, R. I. Steam or hot-water heater	527,405	Oct. 16	1197	294	69	250
Chadwick, John F. (See Kaster, James W., assignor.)						
Chadwick, Joseph G. (See Getchell, Augustus W., assignor.)						
Chaffer, John E., Cleveland, Ohio. Automatic feed-water regulator	512,804	Jan. 16	1809	430	66	369
Chaffee, Alfred M., and H. V. Oxford, Mass. Dumping-wagon	524,161	Aug. 7	335	79	68	723
Chaffee, Charles S., A. S. Hoffman, and F. A. Green, Birmingham, Conn. Carpet-beater	515,573	Feb. 27	2635	655	66	1393
Chaffee, Herbert V. (See Chaffee, Alfred M. and H. V.)						
Chaffey, George, Mildura, Victoria. Automatic water-meter	527,046	Oct. 9	616	149	69	130
Chaffin, Lewis L., Monticello, Minn. Sleigh-knee	527,319	Oct. 9	1055	255	69	210
Chalfant, Peter T., Philadelphia, Pa. Horse-checking device	516,365	Mar. 13	1044	248	66	1662
Chalfant, William E., Philadelphia, Pa. Frictional and positive clutch	522,587	July 10	708	{ 180 181 }	{ 68 68 }	155
Challenge High Speed Engine Company. (See Davis, John V., assignor.)						
Challis, George T. (See Case, Frank J., assignor.)						
Chaloupka, August G. (See Smith, Orson W., assignor.)						
Chamberland, Charles E., Paris, France. Filter	519,664	May 8	1306	312	67	796
Chamberlain & Co., J. W. (See Chamberlain, Joseph W., assignor.)						
Chamberlain, Henry J. (See Robinson and Chamberlain.)						
Chamberlain, Joseph W., assignor to J. W. Chamberlain & Co., Bangor, Me. Ceiling-plate	530,394	Dec. 4	559	139	69	1317
Chamberlain, Thomas W., and E. L. Agan, Wheeler's Mill, Ky. Still-furnace or other flue	517,404	Mar. 27	2835	663	66	2036
Chamberlin, Bayard, Denver, Colo. Display-rack	516,347	Mar. 13	994	236	66	1655

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Chamberlin, John V. (See Knapp and Chamberlin.)						
Chambers Brothers Company. (See King, Howard K., assignor.)						
Chambers, David S., Sansalito, assignor of one-tenth to H. Lacy, San Francisco, Cal. Sheep-shearing machine	514,704	Feb. 13	1219	303	66	1101
Chambers, Frank, and T. Doud, Camden, N. J.; said Chambers assignor to H. K. Thomas, New York county, N. Y. Stop-off motion for knitting-machines	519,690	May 8	1351	326	67	804
Chambers, Josephus C., Detroit, Mich. Electric lamp lighter	522,727	July 10	955	237 238	68	198
Chambers, Josephus C., assignor to R. H. Brown, Detroit, Mich. Cnrling-iron and heater	526,685	Oct. 2	23	6	69	7
Chambers, Richard B., West Chester, assignor to C. M. Black, Chester, Pa. Automatic cycle-support	518,914	Apr. 24	2553	631	67	511
Chambers, Richard B., assignor to C. M. Black, Chester, Pa. Combination pencil sharpener, grinder, protector, and eraser	521,016	June 5	471	112	67	1282
Chambers, Richard B., assignor to C. M. Black, Chester, Pa. Flexible-belt fender for street-railway cars	522,147	June 26	2485	596	67	1702
Chambers, Solomon, assignor of one-half to J. G. Meyers, Bay City, Mich. Reclining-chair	518,751	Apr. 24	2289	569	67	461
Chambers, Talhot R., East Orange, N. J. Breast-compressor	513,086	Jan. 23	2263	546	66	523
Chambers, William. (See Kirker and Chambers.)						
Chameroy, Bernard H., Vesinet, France. Oil-can	524,245	Aug. 7	465	109	68	746
Chamont, Gaston. (See Laveissiere and Chamont.)						
Champ Joseph H., assignor to Bishop & Babcock Company, Cleveland, Ohio. Hydraulic air-compressor	513,556	Jan. 30	3054	752	66	710
Champ, Joseph H., assignor to Bishop & Babcock Company, Cleveland, Ohio. Hydraulic air-compressor	515,516	Feb. 27	2537	629	66	1373
Champ, Joseph H., assignor to Bishop & Babcock Company, Cleveland, Ohio. Double-acting hydraulic air-compressor	523,830	July 31	2885	717	68	600
Champerois, Charles C., Newark, N. J. Cuff-button or stud	524,523	Aug. 14	964	237	68	854
Champerois, Charles C., Newark, N. J. Cuff-button or stud	528,715	Nov. 6	334	82	69	707
Champion Cash Register Company. (See Geiger, Harry M., assignor.)						
Champion Safety Lock and Novelty Company. (See Hasenplug, John A., assignor.)						
Champlin, Amos F., Waterbury, assignor to Hendey Machine Company, Torrington, Conn. Reversing mechanism for metal shaping and planing machines	519,941	May 15	1750	429 430	67	892
Chancellor, George W. (See Rust, Robert S., assignor.)						
Chandler, Charles H., et al. (See Burdick, Charles L., assignor.)						
Chandler, Charles H., assignor to Chandler Pump Company, Cedar Rapids, Iowa. Pump	523,657	July 31	2563	642	68	542
Chandler, George E., Fall River, Mass., assignor to E. Dixon, Bristol, R. I. Mechanism for actuating roving-rods of spinning-machines	527,591	Oct. 16	1507	366	69	308
Chandler, George W., and J. C. Dale, Manhattan, Kans. Car-brake	517,916	Apr. 10	820	205	67	172
Chandler, Isaac E., assignor to Union Eyelet Company, Providence, R. I. Machine for setting lacing-hooks	526,295	Sept. 18	1684	398	68	1484
Chandler, John A., assignor of one-half to N. D. Waters, Kansas City, Mo. Vapor-burner	515,422	Feb. 27	2402	595 596	66	1348
Chandler, John A., assignor of one-half to N. D. Waters, Kansas City, Mo. Vapor-burner	515,423	Feb. 27	2405	596	66	1348
Chandler, John A., assignor of one-half to N. D. Waters, Kansas City, Mo. Vapor-burner	515,424	Feb. 27	2407	596	66	1349
Chandler, Josiah C., London, England. Apparatus for charging gas-retorts	522,705	July 10	903	222 223	68	189
Chandler & Price. (See Price, William H., Jr., assignor.)						
Chandler Pump Company. (See Chandler, Charles H., assignor.)						
Chandler, William, North Bend, Canada. Scissors-holder and point-guard	530,014	Nov. 27	2658	638	69	1183
Chaney, Ambrose. (See Wires, Edward T., assignor.)						
Chaney, Silas N., Grangeville, La. Hair-clipper	512,009	Jan. 2	466	111	66	90
Chaninell, William J. (See Robinson, John, assignor.)						
Chaninell, William J., assignor to Lengert Company, Philadelphia, Pa. Safety-vehicle	526,664	Sept. 25	2329	557	68	1617
Chanute, Arthur, and M. W. Iles, Denver, Colo. Dust-chamber for metallurgical furnaces	515,071	Feb. 20	1800	454	66	1223
Chapin, Annie A. (See Acheson, William J., assignor.)						
Chapin, Herbert L. (See Meisel and Chapin.)						
Chaplin, Edwin D., Natick, Mass. Vacuum-pump	521,432	June 12	1203	285 286	67	1430
Chaplin-Fulton Manufacturing Company. (See Pudan and Fulton, assignors.)						
Chapman, Albert H., Upton, Mass. Machine for cutting bones	527,769	Oct. 23	1795	433	69	379
Chapman, Byron J. (See Black and Chapman.)						
Chapman, Charles H., and W. S. Goodhue, Kansas City, Mo. Truss	522,967	July 17	1364	339	68	290
Chapman, Clarence L., Little Falls, N. Y. Centrifugal liquid-separator	523,105	July 17	1597	401 402	68	334
Chapman, Frank M., assignor to S. F. Chapman, New York, N. Y., and C. B. Jefferson, Buzzard's Bay, Mass. Life-saver for cars	524,190	Aug. 7	377	89, 90	68	730
Chapman, Franklin. (See Bennett and Chapman.)						
Chapman, George, Edinburgh, Scotland. Means for producing rotary from reciprocatory motion	526,614	Sept. 25	2244	535 536	68	1602
Chapman, George T., assignor to W. H. Merritt, New York, N. Y. Vehicle-spring	512,501	Jan. 9	1300	313	66	257
Chapman, George T., assignor to W. H. Merritt, New York, N. Y. Vehicle-spring	512,502	Jan. 9	1301	313	66	257
Chapman, Harry. (See Graham and Chapman.)						
Chapman, Herbert M., Trimley, England. Explosive	516,295	Mar. 13	910		66	1639
Chapman, Joseph L., Haddonfield, N. J. Steam-trap	518,053	Apr. 10	1067	269	67	211
Chapman, Stella F., et al. (See Chapman, Frank M., assignor.)						
Chapman, Walter P. (See Banker, Herman, assignor.)						
Chapman, William. (See O'Neill, Charles Z., assignor.)						
Chappel, William H., and J. C. Wagner, Glen Ellyn, Ill. Mail-bag crane	513,032	Jan. 16	2193	523	66	440
Chappell, Fred L., assignor to Featherbone Corset Company, Kalamazoo, Mich. Clasp for supporting garments	511,930	Jan. 2	347	81	66	66
Chappell, Thomas C., Baltimore, Md. Letter-box	522,045	June 26	2309	554	67	1668
Chaquette Canal and Harbor Dredging Company. (See Chaquette, Ephraïem, assignor.)						
Chaquette, Ephraïem, assignor to Chaquette Canal and Harbor Dredging Company, Bridgeport, Conn. Dredging apparatus	523,807	July 31	2845	707	68	592
Chaquette, Ephraïem, assignor to Chaquette Canal and Harbor Dredging Company, Bridgeport, Conn. Dredging apparatus	523,959	July 31	3124	777 778	68	645
Chaquette, Ephraïem, assignor to Chaquette Canal and Harbor Dredging Company, Bridgeport, Conn. Dredging apparatus	523,960	July 31	3129	779 780	68	646
Chaquette, Ephraïem, assignor to Chaquette Canal and Harbor Dredging Company, Bridgeport, Conn. Rotary pump for dredging apparatus	523,961	July 31	3132	780	68	646
Chardonnet, Hilaire de, Besançon, France. Manufacturing artificial silk	531,158	Dec. 18	1894		69	1590

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Charles, Albert A. (See Sollenberger, John T., assignor.)						
Charles, John H. (See Ormerod and Charles.)						
Charles, Roland H., Canisteo, N. Y., assignor of one-half to A. M. Legg, Washington, D. C. Bicycle-bell.....	517,026	Mar. 27	2159	511	66	1904
Charles Scott Spring Company. (See Hansell, William H., assignor.)						
Charlton, Thomas, Denver, Colo., and K. M. Mitchell, St. Joseph, Mo. Process of and apparatus for manufacturing aqua-ammonia.....	521,401	June 12	1150	273	67	1422
Charmbury, Henry, Newark, N. J. Hat-lining machine.....	531,098	Dec. 18	1781	424 425	69	1569
Charron, Bruno. (See Talbot, Thomas, assignor.)						
Chase, Andrew J., Boston, Mass. Apparatus for distilling water.....	530,015	Nov. 27	2659	638 639	69	1183
Chase, Charles A., Houlton, Me. Water-wheel.....	521,152	June 12	708	166	67	1338
Chase, Charles W. (See Birrer, John B., assignor.)						
Chase, Floyd T., Alvarado, Tex. Sanding device for locomotives.....	522,148	June 26	2487	596	67	1702
Chase, Frederic D., Maiden, Mass. Deck-iron.....	527,663	Oct. 16	1620	391	69	329
Chase, George N. (See Kirchner and Chase.)						
Chase, Henry A., assignor to A. Watts, Boston, Mass. Magneto-telephone.....	516,642	Mar. 20	1513	360	66	1766
Chase, Henry A., assignor to A. Watts, Boston, Mass. Magneto-telephone.....	516,643	Mar. 20	1514	360	66	1767
Chase, Henry A., assignor to A. Watts, Boston, Mass. Telephonic system.....	524,480	Aug. 14	891	220	68	842
Chase, Henry A., assignor to A. Watts, Boston, Mass. Combined telephonic and signaling system.....	528,075	Oct. 23	2352	568	69	479
Chase, Henry A., Brooklyn, assignor to W. A. Force & Co., New York, N. Y. Engraving-machine.....	517,680	Apr. 3	447	108 109	67	86
Chase, Henry M., et al. (See Larsen, August, assignor.)						
Chase, James M. (See Chase, John, assignor.)						
Chase, John, assignor of two-thirds to J. M. Chase, Paterson, N. J. Apparatus for removing vegetable matter from wool.....	514,413	Feb. 6	724	184	66	990
Chase, John A. (See Adler and Chase.)						
Chase, John Q., Grand Rapids, Mich. Wall-plaster.....	516,914	Mar. 20	1962		66	1850
Chase, Josiah B. (See Richardson and Chase.)						
Chase, Joseph H. and J. B. Tracy, Meriden, Conn., assignors to Aeolian Organ and Music Company, New York, N. Y. Musical instrument.....	520,297	May 22	2380	578	67	1022
Chase, Newton, Fort Scott, Kans. Twister-head for tool handles.....	513,481	Jan. 30	2916	718	66	685
Chase, Newton, Fort Scott, Kans. Hammer or hatchet.....	516,644	Mar. 20	1515	360	66	1767
Chase, Porter B. (See Richardson and Chase.)						
Chase, Rodney G., Elsdon, Ill. Fastening for refrigerator-doors.....	516,296	Mar. 13	911	214	66	1639
Chase, Sarah A., Medical Lake, Wash. Reclining-chair.....	513,981	Feb. 6	13	3	66	857
Chase, Sherwood M., Canton, Ohio. Pump.....	526,070	Sept. 18	1303	302	68	1413
Chase, Walter G. (See Clough, Albert L., assignor.)						
Chase, Zenas B., Bangor, Me. Lock-hinge.....	518,021	Apr. 10	1009	253	67	202
Chatain, Evariste, and S. Giletti, San Francisco, Cal. Manufacture of artificial granite and veneering stone.....	512,431	Jan. 9	1174	285	66	234
Chatain, Henri G., New York, N. Y. Car-fender.....	522,149	June 26	2488	597	67	1702
Chatfield, Irving G., Waterbury, Conn. Bicycle-saddle.....	512,862	Jan. 16	1295	455	66	391
Chatten, Thomas E., Bethlehem, Pa. Wrench.....	520,411	May 29	2568	621	67	1075
Chatterson, Robert L., Denver, Colo. Placer-machine.....	528,503	Oct. 30	3098	751 752	69	629
Chatwood, Samuel. (See Lord and Leasen, assignors.)						
Chaussard, Victor. (See Taufflieb and Chaussard.)						
Chazotte, Jean F., assignor of two-thirds to G. Maisons, 3d, and A. Roy, Montreal, Canada. Smoke-consuming furnace.....	517,540	Apr. 3	199	45	67	40
Chazotte, Jean F., assignor of two-thirds to G. Maisons, 3d, and A. Roy, Montreal, Canada. Garbage-cremating furnace.....	520,105	May 22	2033	496	67	960
Cheatham, Robert V., Louisville, Ky. Electric lock.....	514,813	Feb. 13	1391	351	66	1134
Cheever, James G. (See Colvin, Byron L., assignor.)						
Cheney, William S., et al. (See Boonhower, Eli E., assignor.)						
Chenu, Charles, Etampes, France. Railway-chair.....	530,925	Dec. 18	1475	349	69	1515
Cheout, Jacob, California, Iowa. Chimney.....	513,758	Jan. 30	3389	836	66	771
Cherest, Léon J., Chicago, Ill. Metallic ceiling.....	513,879	Jan. 30	3582	881	66	809
Cherry, Michael, and D. Dyser, Carlisle, Pa. Butchering apparatus.....	527,320	Oct. 9	1056	255	69	210
Chesebro, Denison P., et al. (See Maurer, Ludwig, assignor.)						
Chesebro, James F., New York, N. Y. Inhaler.....	523,265	July 17	1895	477	68	387
Chesebrough, Robert A., New York, N. Y. Apparatus for continuous distillation.....	524,704	Aug. 21	1262	311	68	923
Chesney, Cummings C. (See Kelly and Chesney.)						
Chesney, Cummings C. (See Stanley, Kelly, and Chesney.)						
Chesney, Cummings C., assignor to Stanley Laboratory Company, Pittsfield, Mass. Circuit-breaker.....	525,134	Aug. 28	2027	496	68	1076
Chesney, Cummings C., assignor to Stanley Laboratory Company, Pittsfield, Mass. System of transmitting and distributing electrical energy.....	530,748	Dec. 11	1190	290	69	1446
Chess, Frank G., Ricker, Mont. Billiard-cue chalker.....	527,770	Oct. 23	1798	434	69	379
Chester, Walstein R., et al., executors. (See Rice, David H.)						
Chicago Automatic Fire Escape and Manufacturing Company. (See Briggs, Samuel R., assignor.)						
Chicago Corrugated Elbow Company. (See Syversen, Andreas, assignor.)						
Chicago Folding Box Company. (See Walker, William J., assignor.)						
Chicago Heat Storage Company. (See Koneman, William A., assignor.)						
Chicago Oil Burner and Stove Company. (See Calkins, Almon H., assignor.)						
Chicago Railway Equipment Company. (See Robischung, Henry B., assignor.)						
Chicago-Rockford Hosiery Company. (See Harbaugh, Howard E., assignor.)						
Chicago Stamping Company. (See Bersted, Martin, assignor.)						
Chicago Stamping Company. (See Carroll, John, assignor.)						
Chicago Stamping Company. (See James, William A., assignor.)						
Chicago Stamping Company. (See Sturges, Lee, assignor.)						
Chichester, Elizabeth H. (See Chichester, Lemuel A., assignor.)						
Chichester, Lemuel A. (See Knight, Chichester, and Relyea.)						
Chichester, Lemuel A., assignor to National Chair Manufacturing Company, Phenicia, N. Y. Convertible chair.....	517,946	Apr. 10	865	218	67	180
Chichester, Lemuel A., assignor to E. H. Chichester, Chichester, N. Y. Child's or invalid's chair.....	519,443	May 8	913	220	67	727
Chick, Horace F., Watertown, assignor to J. A. Emery, trustee, Boston, Mass. Anti-inductive conductor.....	513,482	Jan. 30	2917	718	66	685
Chick, Horace F., Watertown, assignor of two-thirds to F. A. Spooner and R. A. Stuart, Boston, Mass. Electric conductor.....	513,982	Feb. 6	14	3	66	857

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Child, Charles T., Ashland, Va., assignor to Electric Power Company, of Maine. Alternating-current motor	528,121	Oct. 23	2436	589	69	494
Children, Edwin, Council Bluffs, Iowa. Wheel-cultivator	528,413	Oct. 30	2943	712	69	600
Childs, A. H., <i>et al.</i> (See Curry, James H., assignor.)						
Childs, Alfred L. (See Carver, James W., assignor.)						
Childs, Charles E., <i>et al.</i> (See Traphagen, George W., assignor.)						
Childs, Charles H., assignor to Grand Rapids Vapor Stove Company, Grand Rapids, Mich. Vaporizer for gasoline-stoves	513,609	Jan. 30	3246	796	66	744
Childs, Charles H., assignor, by mesne assignments, to T. Friant, T. S. White, T. M. Peck, F. Ranville, D. McCoy, M. Bundy, J. J. Tucker, and L. A. Giddings, Grand Rapids, Mich. Vapor-burner	523,303	July 17	1953	492	68	398
Childs, Edward D., Milwaukee, Wis. Shoe-nailing machine	517,027	Mar. 27	2160	{ 511 512	{ 66	1904
Childs, James, London, England. Apparatus for making tea, coffee, &c.	514,988	Feb. 20	1668	{ 417 418	{ 66	1200
Childs, James, London, England. Apparatus for the manufacture of aerated bread or cakes	526,377	Sept. 25	1845	439	68	1529
Childs, James, and C. J. Jones, London, England. Apparatus used in making infusions and maintaining supplies of hot water or liquid	521,229	June 12	849	{ 198 199	{ 67	1364
Childs, Samuel S. (See Childs, William, Jr., and S. S.)						
Childs, Sumner W. (See McTigue and Childs.)						
Childs, Wallace, Fort Smith, Ark. Telephone-exchange system	528,590	Nov. 6	110	27, 28	69	666
Childs, Wallace, Fort Smith, Ark. Telegraphic and telephonic exchange system	528,591	Nov. 6	116	25, 29	69	667
Childs, William, Jr., and S. S., Brooklyn, N. Y. Bottling-machine	512,432	Jan. 9	1175	285	66	234
Childs, William A., Englewood, N. J. Switchboard	512,805	Jan. 16	1811	430	66	370
Childs, William H. H., New York, N. Y. Enameling paper or other fabrics	517,732	Apr. 3	532	129	67	104
Chilton, Annie H., Baltimore, Md. Combined horse-detacher and brake	515,651	Feb. 27	2755	686	66	1417
Chinnoek, George H., Brooklyn, N. Y. Pneumatic tire	512,243	Jan. 2	847	205	66	160
Chinnoek, George H., New York, N. Y. Bicycle-wheel	523,831	July 31	2888	{ 718 719	{ 68	600
Chisholm, Henry A., Cleveland, Ohio. Socket for shovels, spades, or scoops	516,915	Mar. 20	1963	462	66	1850
Chisholm, Mary. (See Rooney, Henry F., assignor.)						
Chisholm, S. S. (See Sweet, Benjamin W., assignor.)						
Chittenden, Giles E., Niles, Cal. Step-ladder	520,202	May 22	2224	541	67	993
Chittick, S. (See Hayden, Henry A., assignor.)						
Choate, Parker C., New York, N. Y., assignor to Electrical Zinc Company, of New Jersey. Producing metallic zinc	512,361	Jan. 9	1039	-----	66	208
Choate, Parker C., New York, N. Y., assignor to Electrical Zinc Company, of New Jersey. Preparing solutions carrying salts of zinc	512,362	Jan. 9	1041	-----	66	208
Choate, Parker C., New York, N. Y., assignor to Electrical Zinc Company, of New Jersey. Producing metallic zinc	518,711	Apr. 24	2219	553	67	449
Choate, Parker C., New York, N. Y., assignor to Electrical Zinc Company, of New Jersey. Producing metallic zinc	518,732	Apr. 24	2259	561	67	456
Choen, Wolf, St. Louis, Mo. Machine for ironing garments	517,328	Mar. 27	2673	627	66	2004
Cholerton, Charles, Philadelphia, Pa. Driving mechanism for drawing-off rollers of combing-machines	527,664	Oct. 16	1621	391	69	329
Chollar, Benjamin F., assignor of one-half to G. B. Hendricks, Fort Worth, Tex. Anti-oscillating attachment for street-cars	522,922	July 10	1291	320	68	260
Chope, Robert L., Detroit, Mich. Coin-case	527,266	Oct. 9	964	234	69	194
Chope, Thomas, San Francisco, assignor of one-half to W. B. Frederick, Oakland, Cal. Sash-holder	524,631	Aug. 14	1143	280	68	888
Chormann, Ernest G., Philadelphia, Pa. Folding table	519,379	May 8	809	197	67	708
Chouteau, Pierre, St. Louis, Mo. Engine	519,147	May 1	367	87, 88	67	609
Chouteau, Pierre, St. Louis, Mo. Direct-acting engine	520,915	June 5	299	73	67	1252
Chouteau, Pierre, St. Louis, Mo. Means for lubricating cutting-edges of tools	522,588	July 10	711	181	68	155
Chouteau, Pierre, St. Louis, Mo. Attachment for engines	528,530	Nov. 6	13	5	69	649
Chrisher, Monroe E., and H. M. Smith, Elmira, N. Y. Pill-machine	523,785	July 31	2801	696	68	583
Christensen, Carl E. R., Brooklyn, N. Y. Device for operating street-railway switches	524,540	Aug. 14	986	{ 242 243	{ 68	858
Christensen, Richard M., New York, N. Y. Line-fastener	521,847	June 26	1938	465	67	1599
Christenson, Martin, La Crosse, Wis. Shoe-polisher	524,414	Aug. 14	793	194	68	623
Christgan, Henry C. (See Wesher, Frederick D., assignor.)						
Christian, Edward M., Minneapolis, Minn. Hatch	525,333	Sept. 4	15	3	68	1154
Christiansen, Emil. (See Thanmer, Leonhard, assignor.)						
Christiansen, Simon, New York, N. Y. Garment-fitting pattern	526,378	Sept. 25	1847	439	68	1530
Christiansen, Simon, New York, N. Y. Sleeve-pattern	526,379	Sept. 25	1849	439	68	1530
Christiansen, Simon, New York, N. Y. Garment-fitting pattern	526,380	Sept. 25	1851	440	68	1530
Christianson, Charles, Vilas, S. D. Potato-harvester	530,395	Dec. 4	560	139	69	1318
Christianson, Knut K. A., assignor to P. A. Östberg, Stockholm, Sweden. Manufacturing billiard-balls from iron or steel	530,257	Dec. 4	317	-----	69	1273
Christie, George B., J. Lowe, and G. A. Lederle, Chicago, Ill. Apparatus for excavating ditches	521,700	June 19	1680	394	67	1535
Christie, John. (See Mather and Christie.)						
Christie, Peter H., Clove, N. Y. Fence	521,759	June 19	1802	427	67	1556
Christie, William, Passaic, N. J. Mechanical ash-sifter	514,261	Feb. 6	496	121	66	946
Christie, William, Toronto, Canada. Biscuit-making machine	516,077	Mar. 6	556	{ 130 131	{ 66	1556
Christman, Augustus G., Reading, Pa. Shutter-bower	527,047	Oct. 9	617	149	69	131
Christman, Charles H., deceased; K. L. Christman, New York, N. Y., executrix. Marine enamel or paint	531,610	Dec. 25	2701	-----	69	1759
Christman, Katharine L., executrix. (See Christman, Charles H.)						
Christopher, Calvin F. (See Christopher, William N. and C. F.)						
Christopher, Henry M., New York, N. Y. Shower-bath apparatus	531,303	Dec. 25	2167	518	69	1655
Christopher, John M., Baltimore, Md. Electric heater for car sand-boxes	520,253	May 22	2310	560	67	1009
Christopher, William N. and C. F., Spartanburg, S. C. Steam-engine	523,761	July 31	2763	686	68	576
Christopherson, Martin H., Chicago, Ill. Elevator-operating mechanism	526,771	Oct. 2	171	40	69	32
Christy, Russ J., Fremont, Ohio. Knife	519,237	May 1	537	129	67	642
Christy, William T., Newark, assignor of one-half to A. Scheid, Harrison, N. J. Fan-blower	516,366	Mar. 13	1044	248	66	1602
Chunn, Charles H., assignor of one-half to E. E. Cowan, Asheville, N. C. Protractor	526,023	Sept. 18	1219	221	68	1398
Churan, Frank. (See Pozdena and Churan.)						
Church, Charles A., <i>et al.</i> (See English, Carl S., assignor.)						
Church, Duane H., Waltham, Mass. Screw-making machine	512,156	Jan. 2	721	{ 174 175	{ 66	137
Church, Duane H., Waltham, Mass. Watch-movement frame	527,771	Oct. 23	1799	434	69	379

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Church, Duane H., Newton, Mass. Grinding-machine	517,643	Apr. 3	375	89, 90	67	73
Church, Duane H., Newton, Mass. Stem winding and setting watch	520,633	May 29	2936	710	67	1142
Church, Duane H., Newton, Mass. Jewel-piping machine	522,046	June 26	2311	554 555 320 321 322	67	1669
Church, Duane H., Newton, Mass. Machine for recessing watch-movement plates	522,930	July 10	1292	321 322	68	260
Church, Duane H., Newton, Mass. Watch-plate	527,772	Oct. 23	1801	434	69	380
Church, Dwight M., Willimantic, Conn., assignor of two-thirds to E. B. Foss, Bay City, Mich. Railway-switch	520,254	May 22	2311	560	67	1009
Church, Dwight M., Willimantic, Conn., assignor of two-thirds to E. B. Foss, Bay City, Mich., and A. C. Andrew, Windham, Conn. Railway-switch	522,951	July 10	1332	331	68	268
Church, Dwight M., assignor of part to A. C. Andrew, Willimantic, Conn., and E. B. Foss, Bay City, Mich. Railway-switch. (Reissue)	11,404	Feb. 13	1527	382	66	1159
Church, E. Dwight, <i>et al.</i> (See Stearns, Albert, assignor.)						
Church, Edward O., Denver, assignor of two-thirds to J. E. Price and T. B. Stuart, Arapahoe county, Colo. Device for operating elevator-doors	527,665	Oct. 16	1623	391	69	329
Church, Frank L., Troy, N. Y. Tape-measure	527,194	Oct. 9	841	205	69	172
Church, Frank S., assignor of one-half to W. F. H. Edwards, Detroit, Mich. Electric-railway trolley	517,025	Mar. 27	2164	513	66	1905
Church, Frank S., assignor of one-half to W. F. Edwards, Detroit, Mich. Roller-bearing	522,648	July 10	814	203	68	173
Church, Frank S., assignor of one-half to W. F. Edwards, Detroit, Mich. Coin-controlled phonograph	529,019	Nov. 13	904	213 214	69	830
Church, George E. (See Ettenger, George W., assignor.)						
Church, George W. (See Lang, William, assignor.)						
Church, Henry A. (See Salisbury, Levi E., assignor.)						
Church, Isaac, Toledo, Ohio. Expansion-bolt	527,406	Oct. 16	1198	294	69	251
Church, James A., <i>et al.</i> (See Stearns, Albert, assignor)						
Church, Lawrence J. and M. J., Springfield, Mass. Envelope-machine	521,153	June 12	710	166 167 168	67	1338
Church, Louis, Buffalo, N. Y. Picture-hanger	522,510	July 3	570	146	68	112
Church, Melvin B., Grand Rapids, Mich. Preparing decorating mixtures	513,003	Jan. 16	2154	.....	66	433
Church, Michael J. (See Church, Lawrence J. and M. J.)						
Church, Walter C., London, England. Steam or other motive-fluid engine	519,238	May 1	538	129 130 131 131	67	642
Church, Walter C., London, England. Steam-engine	519,239	May 1	542	132 133	67	642
Church, William L., Newton, Mass., assignor to Westinghouse, Church, Kerr & Company, Jersey City, N. J., and New York, N. Y. Apparatus for making ice	529,344	Nov. 13	1463	352	69	933
Church, William L., Newton, Mass., assignor to Westinghouse, Church, Kerr & Company, Jersey City, N. J., and New York, N. Y. Apparatus for making ice	529,345	Nov. 13	1465	353	69	934
Church, William L., Newton, Mass., assignor to Westinghouse, Church, Kerr & Company, Jersey City, N. J., and New York, N. Y. Ice-making apparatus	529,346	Nov. 13	1469	353	69	934
Church, William L., Newton, Mass., assignor to Westinghouse, Church, Kerr & Company, Jersey City, N. J., and New York, N. Y. Ice-making apparatus	529,347	Nov. 13	1472	353	69	934
Church, William L., Newton, and S. A. Reeve, Boston, Mass., assignors to Westinghouse, Church, Kerr & Company, Jersey City, N. J., and New York, N. Y. Ice-machine	529,341	Nov. 13	1457	352	69	932
Church, William L., Newton, and S. A. Reeve, Boston, Mass., assignors to Westinghouse, Church, Kerr & Company, Jersey City, N. J., and New York, N. Y. Ice-making apparatus	529,342	Nov. 13	1460	352	69	933
Church, William L., Newton, and S. A. Reeve, Boston, Mass., assignors to Westinghouse, Church, Kerr & Company, Jersey City, N. J., and New York, N. Y. Ice-making apparatus	529,343	Nov. 13	1462	352	69	933
Church, William L., Newton, and S. A. Reeve, Boston, Mass., assignors to Westinghouse, Church, Kerr & Company, Jersey City, N. J., and New York, N. Y. Apparatus for making ice	530,494	Dec. 4	741	182	69	1350
Churchill, Henry P. (See Scamman and Churchill.)						
Churchill, Newton, and W. C. Baxter, assignors to Carver Cotton Gin Company, East Bridgewater, Mass. Heel-breast finisher	520,768	June 5	11	3	67	1199
Churchill, Orlando E., and C. W. Bennett, Penn, Mich. Fence	519,420	May 8	878	213	67	720
Ciancimino, Peter, Brooklyn, and F. W. Mattocks, New York, N. Y. Dumping-scow	527,800	Oct. 23	1853	445	69	389
Cilley, George W., assignor to Crescent Fire Arms Company, Norwich, Conn. Lever-action for breakdown guns	514,414	Feb. 6	726	184 185	66	990
Cincinnati Milling Machine Company. (See Holz, Frederick, assignor.)						
Cini, George W., and G. Maiwald, San Francisco, Cal. Safety gas-cock	518,091	Apr. 10	1124	284	67	221
Cinnamon, John, New Brighton, N. Y. Device for heating and ventilating rooms	530,016	Nov. 27	2663	639	69	1184
Cisco, George W. and J. J., Jr., New York, N. Y. Kettle	524,191	Aug. 7	379	90	68	730
Cisco, Joseph J., Jr. (See Cisco, George W. and J. J., Jr.)						
Cissel, Richard S. T., Elizabeth, N. J. Hot-air register. (Reissue)	11,426	July 3	683	174	68	133
Clair, Henry, Hawkeye, Kans. Corn-harvester	519,836	May 15	1585	388	67	862
Clabaugh, William. (See Smith and Clabaugh.)						
Claffey, Frank E., Providence, R. I. Valve	520,203	May 22	2227	541	67	993
Claffin, Frank O., Boston, Mass. Table	516,262	Mar. 13	866	201 202	66	1630
Claffin, Mack A. (See Lebolt, George W., assignor.)						
Claibmont, Ralph de, San Francisco, Cal. Bicycle stand or holder	519,016	May 1	124	30	67	559
Clamer, Francis J., Philadelphia, Pa. Alloying lead and zinc	528,923	Nov. 13	751	.....	69	804
Clancy, J. R. (See Hart, Samuel J., assignor.)						
Clapp, Alfred C. (See Davidson, Harry, assignor.)						
Clapp, Charles W. (See Westervelt and Clapp.)						
Clapp, Mortimer A. (See Womersley, Sagne, and Clapp.)						
Clapp, Ralph R. (See Shearer and Clapp.)						
Clapp, Richard D., Boston, Mass., assignor to J. P. C. Weis, Providence, R. I. Drilling-machine	527,321	Oct. 9	1058	256	69	210
Clarenbach, Louis, Jr., Philadelphia, Pa. Cloth napping and brushing roller	527,728	July 10	958	238	68	198
Clariot, Jean J. P., Paris, France. Fluid-operated electric switch	525,092	Aug. 28	1954	477 478	68	1063
Clark, A. D., <i>et al.</i> (See Byrd, Walter M., assignor.)						
Clark, Abner C., Spencer, Mass. Winkor-brace	518,876	Apr. 24	2484	616	67	498
Clark, Albert G., Glendale, Ohio. Car-coupling	529,020	Nov. 13	906	214	69	831
Clark, Alexander H., Fond du Lac, Wis. Bicycle	524,131	Aug. 7	283	66	68	713

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Clark, Alexander H., Fond du Lac, Wis., assignor of one-half to I. E. Clark, Denver, Colo. Piston-rod packing	517,563	Apr. 3	240	56	67	47
Clark, Archibald D., <i>et al.</i> (See Byrd, Walter M., assignor.)						
Clark, Arthur S., Saline, Mich. Windmill-regulator	530,985	Dec. 18	1582	375	69	1533
Clark, Benjamin W., Washington, D. C. Dumping-wagon	513,881	Jan. 30	3586	883	66	810
Clark, Bernard, Susquehanna, Pa. Throttle-valve	519,665	May 8	1308	312	67	796
Clark, Charles B., (See Decker, William L., assignor.)						
Clark, Charles E., Dayton, Ohio. Safe	517,261	Mar. 27	2562	601	66	1982
Clark, Charles P., Jr., Newton, Mass. Freight-blank	520,353	May 22	2478	601	67	1041
Clark, Clement, Sandusky, Ohio, assignor of one-half to J. S. Clark, Detroit, Mich. Bottle	521,636	June 19	1579	369	67	1515
Clark & Co., Theodore. (See Ferry, Frank P., assignor.)						
Clark, Cullen B., Englewood, Ill. Fruit-drier	522,449	July 10	815	203	68	173
Clark, David, Easton, Pa. Anchor	520,177	May 22	2181	531	67	985
Clark, David S., Kingston, Pa. Foot-rest attachment for chairs	518,344	Apr. 24	2080	521	67	427
Clark, Dwight S., assignor to Stecher Lithographic Company, Rochester, N. Y. Paper box	513,760	Jan. 30	3391	836	66	771
Clark, Edward, New York, N. Y. Vehicle-pole	526,219	Sept. 18	1566	367	68	1461
Clark, Edward I., (See Stineman, William H. H., assignor.)						
Clark, Edwin M., Detroit, Mich. Spark-arrester for arc lamps	531,159	Dec. 18	1896	452	69	1590
Clark, Erwin B., Grand Rapids, Mich. Combined bed and couch	529,444	Nov. 20	2007	480	69	1051
Clark, Ezra E., Northampton, Mass. Pumping-engine	512,010	Jan. 2	468	{ 111 112 }	{ 66 66 }	90
Clark, Ezra E., Northampton, Mass. Duplex engine	513,303	Jan. 23	2618	{ 634 635 }	{ 66 66 }	594
Clark, Francis L., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake	522,825	July 10	1128	280	68	228
Clark, Frank I., Baltimore, Md. Safety car-fender	520,255	May 22	2314	561	67	1009
Clark, Frank L., Pittsburg, Pa. Hoop-mill attachment	525,135	Aug. 28	2029	496	68	1076
Clark, Franklin D., Escanaba, Mich. Self clamping and locking trace-buckle	517,435	Apr. 3	20	5	67	6
Clark, Frederick O., (See Hazard, Dexter, assignor.)						
Clark, Frederick O., (See Hodgkins, Nelson D., assignor.)						
Clark, George, Carlisle, England. Machinery for addressing envelopes, &c	531,021	Dec. 18	1648	391	69	1545
Clark, George M., Haddam, Conn. Soil-working machine	512,276	Jan. 9	901	218	66	183
Clark, George M., Higganum, Conn. Disk harrow	514,208	Feb. 6	396	{ 94 95 96 97 98 }	{ 66 66 66 66 66 }	928
Clark, George M., Higganum, Conn. Straddle-row cultivator	514,209	Feb. 6	402	{ 96 97 98 }	{ 66 66 66 }	928
Clark, George M., Higganum, Conn. Cultivator	514,210	Feb. 6	408	98,99	66	929
Clark, Has., Kansas City, Kans., and P. D. Myers, Kansas City, Mo. Baling-press	515,748	Mar. 6	22	7	66	1459
Clark, Henry A., (See Lombard, Nathaniel, assignor.)						
Clark, Henry F., Easton, Pa. Detonator for railway signaling purposes	522,650	July 10	816	204	68	173
Clark, Henry F., Easton, Pa. Apparatus for automatic fog signaling on railways	523,424	July 24	2157	{ 542 543 }	{ 68 68 }	451
Clark, Henry R., (See Clark, John K. and H. R.)						
Clark, Isaac, Morris Plains, N. J. Thill-coupling	512,947	Jan. 16	2065	489	66	416
Clark, Isabella E., (See Clark, Alexander H., assignor.)						
Clark, James., (See Howe and Clark.)						
Clark, Joel, Hartland, assignor of one-half to N. Clark, Spokane, Wash. Car-coupling	531,099	Dec. 18	1783	425	69	1569
Clark, John, Pontiac, Mich. Hand-pump	519,444	May 8	914	220	67	727
Clark, John, Detroit, Mich. Divisible toe-weight	522,288	July 3	198	53	68	40
Clark, John A., (See Wyman and Clark.)						
Clark, John H., assignor to Whittier Machine Company, Boston, Mass. Elevator	520,755	May 29	3151	763	67	1180
Clark, John H., Boston, Mass., assignor to General Electric Company, of New York. Electric motor	526,686	Oct. 2	24	6	69	7
Clark, John K., (See Buckbee, Charles E., assignor.)						
Clark, John K., assignor, by mesne assignments, to M. K. Clark, Buffalo, N. Y. Catch-plate or striker	522,878	July 10	1192	297	68	241
Clark, John K. and H. R., assignors, by mesne assignments, to Clark Manufacturing Co., Buffalo, N. Y. Adjustable catch-plate or striker	512,244	Jan. 2	849	206	66	161
Clark, John M., <i>et al.</i> (See McCarthy, Joseph J. and C. A., assignors.)						
Clark, John S., (See Clark, Clement, assignor.)						
Clark, John W., (See Hunter, David E., assignor.)						
Clark, John W., Riegelsville, Pa. Window-acreen	525,260	Aug. 28	2228	541	68	1111
Clark, John W., Du Bois, Pa. Pump attachment	531,508	Dec. 25	2525	604	69	1724
Clark, Joseph, San Francisco, Cal. Means for conducting, positioning, and exploding torpedoes	513,983	Feb. 6	15	4	66	857
Clark, Judson, Newburyport, Mass. Velocipede	516,786	Mar. 20	1747	412	66	1808
Clark, Leroy., (See Conner and Clark.)						
Clark, Malcom G., (See Arnold, Oliver, assignor.)						
Clark Manufacturing Co., (See Clark, John K. and H. R., assignors.)						
Clark, Marcus C., <i>et al.</i> (See Braddock, Warren L., assignor.)						
Clark, Martin M., assignor to Western Electric Company, Chicago, Ill. Galvanic battery	528,286	Oct. 30	2728	659	69	563
Clark, Mary K., (See Clark, John K., assignor.)						
Clark, Mason J., Caroline Centre, N. Y. Checkrein-loop	519,991	May 15	1840	449	67	908
Clark, Mason J., Caroline Centre, and E. A. Northrup, Cortland, N. Y. Bicycle	512,538	Jan. 9	1348	325	66	266
Clark, Merrill E., and M. Shebesta, assignors to Drapery Fixture and Wood Carving Company, Worcester, Mass. Machinery for sanding and finishing	513,880	Jan. 30	3582	{ 881 882 883 }	{ 66 66 66 }	810
Clark, Neill, Manchester, N. C. Bed-brace	516,474	Mar. 13	1218	292	66	1695
Clark, Nelson., (See Clark, Joel, assignor.)						
Clark, Richard, and L. M. Crom, Warsaw, Ohio. Printing-press	530,505	Dec. 11	762	187	69	1371
Clark, Roswell M., and G. E. Gilhaus, Kansas City, Mo.; said Gilhaus assignor to said Clark. Stove or range	516,628	Mar. 13	1485	352	66	1745
Clark, Samuel F., Oil City, Pa. Hitching device for stock	521,782	June 26	1842	439	67	1580
Clark, Sigourney F., Elizabeth, N. J. Tie-plate	529,854	Nov. 27	2364	565	69	1126
Clark Stamping Company., (See Ruffhead and Anthony, assignors.)						
Clark, Theodore E., Cleone, Oreg. Metal-punch	519,240	May 1	547	133	67	643
Clark, Theodore M., Newton, Mass. Camera	520,950	June 5	363	88	67	1263
Clark, Theodore M., Newton, Mass. Apparatus for cremating garbage	526,516	Sept. 25	2092	{ 498 499 }	{ 68 68 }	1574
Clark, Theodore M., Newton, Mass. Tension-spool for roll-holders	530,327	Dec. 4	445	111	69	1295
Clark, Thomas H., <i>et al.</i> (See Green, William A., assignor.)						
Clark, Ulysses G., and C. Morgan, Chicago, Ill. Piano-action	527,048	Oct. 9	618	149	69	131

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Clark, Walter B., assignor of one-half to C. Ludlam, Chicago, Ill. Thill-coupling	525,334	Sept. 4	17	4	68	1154
Clark, Walter N., Warren, Ohio. Folding chair	523,645	Nov. 20	2008	481	69	1031
Clark, Warren H., West Burlington, N. Y. Machine for picking and separating hops	529,598	Nov. 20	1937	461	69	1038
Clark, William, Greenfield, Wis. Type-writing machine	519,320	May 8	697	171 172	67	686
Clark, William A., Toronto, Canada. Machine for bottling milk	518,306	Apr. 17	1495	374	67	306
Clark, William A., assignor of one-half to T. L. O'Donnell, Rockford, Ill. Clamp for plow-irons	519,806	May 15	1541	376	67	853
Clark, William, A. Cameron, Sydney, and C. Kirk, North Sydney, New South Wales. Automatic flushing apparatus for urinals, &c.	521,907	June 26	2050	494	67	1632
Clark, William D., <i>et al.</i> (See Byrd, Walter M., assignor.)						
Clark, William H., assignor of one-half to B. B. Brown, Erie, Pa. Counting-machine	516,984	Mar. 20	2074	490 491	66	1872
Clark, William H., assignor of one-half to B. B. Brown, Erie, Pa. Adding-machine	516,985	Mar. 20	2076	491 492	66	1872
Clark, William H., assignor of one-half to B. B. Brown, Erie, Pa. Calculator	527,943	Oct. 23	2114	507 508	69	436
Clark, William H. and W. J., Salem, Ohio. Mortising-machine	524,192	Aug. 7	380	90, 91	68	731
Clark, William J. (See Clark, William H. and W. J.)						
Clark, William J., St. Louis, Mo. Incubator	512,577	Jan. 9	1406	339	66	277
Clark, William R., Minneapolis, Kans. Corn-cutter	513,087	Jan. 23	2264	546 547	66	523
Clark, William S., and M. H. Willis, Easton, Mass. Sewing-machine	525,885	Sept. 11	1000	225	68	1346
Clarke, A. Lincoln. (See Foote, Herbert W., assignor.)						
Clarke, Alfred L., Springfield, Ohio. Car-fender	522,194	July 3	14	4	68	5
Clarke, Charles D., Merrill, Wis. Lumber-jack	517,211	Mar. 27	2486	585	66	1967
Clarke, Charles D., Merrill, Wis. Lumber-jack for railway-cars	521,100	June 5	622	146	67	1309
Clarke, Edward F., Duluth, Minn. Fireproof curtain for elevator-shafts	519,990	May 15	1838	449	67	908
Clarke, Ernest. (See Rubinstein, Cluley, and Clarke.)						
Clarke, Francis B., <i>et al.</i> , executors. (See Babcock, George H.)						
Clarke, Frances J., Newport, R. I. Brush	512,363	Jan. 9	1043	254	66	209
Clarke, George R., Montel, Tex. Sheet-feeder	524,309	Aug. 14	583	140	68	766
Clarke, George R., Montel, Tex., assignor to Danbury Printing Press Company, Danbury, Conn. Feeder for printing-machines	530,089	Dec. 4	22	6, 7	69	1219
Clarke, George W., assignor of one-half to E. Appel, Rochester, N. Y. Pneumatic sulky	522,150	June 26	2489	597	67	1702
Clarke, J. Bennett, <i>et al.</i> , executors. (See Babcock, George H.)						
Clarke, James G., Mount Pleasant, Mich. Land-roller	526,647	Sept. 25	2299	550	68	1612
Clarke, Joseph H. (See Porter, Daniel R., assignor.)						
Clarke, Joseph H., <i>et al.</i> (See Scales, William S., assignor.)						
Clarke, Peeto B., Birmingham, Ala. Apparatus for handling coal in bulk	512,680	Jan. 16	1575	378 379	66	325
Clarke, Peter. (See Penchen, Stanley C., assignor.)						
Clarke, T. E., <i>et al.</i> (See Williams, Frederick W., assignor.)						
Clarke, Thomas A., Chicago, Ill. Folding stand	513,304	Jan. 23	2620	635	66	595
Clarke, Thomas E. (See Lousaw and Clarke.)						
Clarke, Walter H., Columbus, Ohio, assignor to M. Griswold, Erie, Pa. Paper-roll holder	525,335	Sept. 4	18	4	68	1154
Clarke, William C., New York, N. Y., and A. B. Griffen, Newark, N. J., assignors to Gilbert & Barker Manufacturing Company, of Massachusetts. Apparatus for carbureting air	522,968	July 17	1366	339	68	290
Clarke, William E., Kansas City, Mo. Cloth-measuring device	524,755	Aug. 21	1349	329	68	938
Clarkson, Thomas, Sutton, England. Sampler for grain, minerals, &c.	518,915	Apr. 24	2554	631 632	67	512
Clary, Smith B., <i>et al.</i> (See Wylie, Chester L., assignor.)						
Claude, Herbert. (See Hogan, Michael D., assignor.)						
Claudon, Joseph A. I., Glenwood Springs, Colo. Sectional steam-generator	530,017	Nov. 27	2664	639	69	1184
Claudy, Christian, and J. Klusmeyer, said Claudy assignor to A. L. Poe, Birmingham, Ala. Belt-fastener	529,364	Nov. 20	1507	362	69	961
Claus, Hubert, Thale, Germany. Enameling metal-ware	527,361	Oct. 9	1120	274	69	222
Clausen, Carl T. E., Copenhagen, Denmark. Apparatus for determining, correcting, or compensating compass deviations	517,029	Mar. 27	2165	513	66	1905
Clausen, Julius C., Hensall, Canada. Hame-tug	528,414	Oct. 30	2945	712	69	601
Clausen, William, <i>et al.</i> (See Ferguson, George W., assignor.)						
Clausen, Edward E. (See Lorenz and Clausen.)						
Clausen, Edward E., assignor to A. H. Walker, trustee, Hartford, Conn. Making paper bags	520,256	May 22	2315	561	67	1010
Clausen, Edward E., assignor to A. H. Walker, trustee, Hartford, Conn. Making paper bags	520,587	May 29	2865	693	67	1129
Clausen, Edward E., assignor to A. H. Walker, trustee, Hartford, Conn. Making paper bags	520,951	June 5	364	89	67	1264
Clawson, Clement C., Newark, N. J. Coin-receiving apparatus	517,094	Mar. 27	2290	539	66	1929
Clawson, Clement C., Newark, N. J. Game apparatus	517,436	Apr. 3	21	5, 6	67	7
Clawson, Clement C., Newark, N. J. Coin-receiving apparatus	517,840	Apr. 10	698	177	67	150
Clawson, Hiram, Clawson, assignor to A. Bess, Hamilton, Ohio. Plow-sulky	526,805	Oct. 2	224	54	69	42
Clawson, Leonard E., and J. A. McKerron, San Francisco, Cal. Sulky-brake	520,877	June 5	220	50	67	1237
Clay, Oliver P., Cleveland, Ohio. Flue-cleaner	516,297	Mar. 13	912	214 215	66	1639
Clay, William S., Harrisburg, assignor of two-thirds to M. I. Kast, Mechanicsburg, and D. R. Miller, Harrisburg, Pa. Combination-wrench	529,707	Nov. 27	2112	506	69	1080
Claybourne, Colin W., Indianapolis, Ind. Apparatus for burning granular fuel	531,160	Dec. 18	1897	452	69	1591
Claybourne, Colin W., Indianapolis, Ind. Oil or gas burner	531,509	Dec. 25	2529	605	69	1724
Claypool, Jeremiah, Marshall, Ill. Sash-holder	527,137	Oct. 9	752	185	69	155
Clayton, Charles W., assignor of one-half to R. J. White, London, England. Apparatus for filling bottles with liquids	523,973	Aug. 7	8	3	68	664
Clayton, Herbert, Brooklyn, N. Y. Manicure implement	512,277	Jan. 9	904	219	66	183
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator	514,670	Feb. 13	1162	289 290	66	1090
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Manual sales-recorder and check-printer	515,517	Feb. 27	2539	630 631	68	1374
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Coin-displayer	521,637	June 19	1580	369 370	67	1515
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash-register	521,638	June 19	1583	370	67	1516
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash-register and indicator	523,106	July 17	1602	402 403	68	335

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Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator.	523,462	July 24	2235	{ 561 562 563 399	{ 68	463
Cleal, Joseph P., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator.	526,296	Sept. 18	1686	{ 398 399 391 392	{ 68	1484
Cleary, John W., Brooklyn, N. Y. Vehicle.	527,666	Oct. 16	1625	{ 391 392	{ 67	330
Cleary, Thomas J., Westfield, Mass. Polishing or buffing wheel.	520,515	May 29	2743	664	67	1105
Cleary, Thomas J., Westfield, Mass. Buffing-wheel.	520,516	May 29	2743	664	67	1105
Cleary, William V., New York, N. Y. Car-fender.	522,449	July 3	477	121	68	95
Cleather, Gabriel G., and P. J. Gibbon, assignors to Spratts Patent, (America,) Limited, New York, N. Y. Ring for exhibiting and judging dogs, &c.	516,858	Mar. 20	1867	442	66	1833
Cleaveland, John B., Indianapolis, Ind. Braided fence-wire.	516,886	Mar. 20	1910	451	66	1842
Cleaveland, John B., Indianapolis, Ind. Fencing-wire.	522,826	July 10	1130	2-0	68	229
Cleaveland, John B., Indianapolis, Ind. Wire-braiding machine.	529,021	Nov. 13	907	215	69	831
Cleaver, Thomas J., Chesapeake City, Md. Steam-separator.	522,450	July 3	478	121	68	95
Cleckley, Mary M., Augusta, Ga. Knockdown case.	521,848	June 26	1939	465	67	1599
Clegg, Ralph, Longsight, England. Car starter and brake.	520,134	May 22	2106	{ 512 513 514	{ 67	971
Cleland, John W., assignor to Specialty Company, Decatur, Ill. Device for copying manuscripts, &c.	518,586	Apr. 24	1994	493	67	410
Clemens, Eliza J. M., Metropolis, Ill. Water-purifier.	514,617	Feb. 13	1074	268	66	1073
Clemens, Eliza J. M., Metropolis, Ill. Collapsible trunk.	517,841	Apr. 10	701	{ 177 178	{ 67	151
Clemens, Frank, Jr., Crestline, Ohio. Combined time-sheet holder and guide.	522,195	July 3	15	4, 5	68	5
Clemens, Samuel M. (See Mead and Clemens.)						
Clement, Auguste, San Francisco, Cal. Rotary motor.	525,532	Sept. 4	353	87	68	1217
Clement, Charles E., assignor of two-thirds to W. H. Campbell and F. E. Davis, Nashua, N. H. Machine for making blanks for paper boxes.	512,278	Jan. 9	905	219	66	183
Clement, John F., Philadelphia, Pa. Impact-tool.	522,511	July 3	571	147	68	113
Clements, Benjamin F. (See Stapleton and Ray, assignors.)						
Clements, Frank P. (See Bates, James P., assignor.)						
Clements, Lewis. (See Stapleton, James, assignor.)						
Clementson, Henry, Brooklyn, N. Y. Apparatus for distilling spirits.	526,437	Sept. 25	1972	470	68	1552
Clennam, Milton A., San Francisco, Cal. Fiber-separating machine.	512,863	Jan. 16	1926	{ 455 456	{ 66	391
Clerici, Fabrizio. (See Pelatan and Clerici.)						
Cleveland Faucet Company. (See Weatherhead, Edward H., assignor.)						
Cleveland Fire Proofing Company. (See Caldwell, William L., assignor.)						
Cleveland Foundry Company. (See Whittingham, Charles, assignor.)						
Cleveland Time Register Company. (See Heene, George W., assignor.)						
Cleveland Wood Turning Company <i>et al.</i> (See Banwell, James, assignor.)						
Clibborn, Alfred E., Bentham, England. Twine cleaner and oiler.	516,964	Mar. 20	2044	483	66	1866
Click, Isaac A. (See Click, Washington B. and I. A.)						
Click, Washington B. and I. A., Sherman, assignors of one-half to J. N. Touchstone, Ida, Tex. Quilting-machine.	529,518	Nov. 20	1807	430	69	1014
Cliff, Edward, Newark, N. J. Car-truck.	521,205	June 12	805	189	67	1356
Cliff, Edward, Newark, N. J. Car-brake.	525,533	Sept. 4	355	87	68	1217
Cliff, Edward, Newark, N. J. Pedestal and axle-box for car-trucks.	526,857	Oct. 2	311	76	69	59
Cliff, Edward, Newark, N. J. Brake-shoe.	529,897	Nov. 27	2429	584	69	1139
Cliff, James, Scriba, assignor of one-half to E. C. Fradenburg, Oswego, N. Y. Grain-shovel.	515,112	Feb. 20	1861	467	66	1234
Clifford, Hersey A., San Francisco, Cal. Vote registering and recording machine.	527,138	Oct. 9	754	185	69	155
Clifford, John, assignor to L. Wolf Manufacturing Company, Chicago, Ill. Outlet connection for steel sinks.	512,864	Jan. 16	1928	456	66	392
Clift, Edmund E., assignor to J. F. Pole, Philadelphia, Pa. Insulated pipe-coupling.	514,304	Feb. 6	575	143	66	961
Clift, Edmund E., assignor to J. Shaw, trustee, and J. F. Pole, Philadelphia, Pa. Electrolier.	514,305	Feb. 6	576	144	66	961
Clifton, Archer E. (See Clifton, James P., assignor.)						
Clifton, Clifton W., New York, N. Y. Attachment for trunks.	519,528	May 8	1081	259	67	756
Clifton, James P., Riverside, assignor to A. E. Clifton, Cincinnati, Ohio. Track device to automatically operate air-brakes of trains.	531,100	Dec. 18	1785	425	69	1570
Clifton Springs Manufacturing Company. (See Fuller, Myron H., assignor.)						
Clifton, Thomas, <i>et al.</i> (See Smith, William R., assignor.)						
Cline, Charles L. (See Packham and Cline.)						
Cline, Elmer E., <i>et al.</i> (See Townsend, Cort, assignor.)						
Cline, George J., Goshen, Ind. Wire-stretcher.	517,842	Apr. 10	703	178	67	151
Cline, George J., Goshen, Ind. Roller and ball bearing.	524,705	Aug. 21	1263	311	68	923
Cline, Lewis W., Youngstown, Ohio. Hitching-post.	515,818	Mar. 6	143	35	66	1480
Cline, Wellman E., Doylestown, Ohio. Sash-fastener.	513,882	Jan. 30	3588	883	66	811
Clinedinst, Barnett M., Jr., Washington, D. C. Photography by artificial light.	523,323	July 24	1990	500	68	422
Cline, Patrick, assignor of one-half to T. J. Lowder, Martinsburg, Mo. Tree-protector.	514,306	Feb. 6	577	144	66	961
Clingfast, Francis. (See Harper and Clingfast.)						
Clinton, Harmon S. (See Dodge and Clinton.)						
Cloize, Charles S., Denver, Colo. Music-leaf turner.	513,963	Jan. 30	3700	912	66	834
Cloak, William H., <i>et al.</i> (See Estberg, William T., assignor.)						
Close, Thomas J., Philadelphia, Pa. Moistening device.	527,049	Oct. 9	619	150	69	131
Close, Walter R., Bangor, Me. Derrick.	518,225	Apr. 17	1369	342	67	223
Closson, Nelson A., assignor to Tropical Coconut Company, Boston, Mass. Preparing and preserving coconut.	527,139	Oct. 9	758	-----	69	156
Closz, Charles, Webster City, Iowa. Grain cleaning and separating sieve.	520,878	June 5	221	50	67	1238
Clot, John B., San Francisco, Cal. Can-testing machine.	522,107	June 26	2411	579	67	1686
Cloud, John W., Chicago, Ill. Wheel-hub.	519,807	May 15	1541	376	67	853
Cloud, John W., Chicago, Ill. Wheel-hub.	519,808	May 15	1543	377	67	854
Clough, Albert L., Manchester, N. H., assignor of one-half to W. G. Chase, Boston, Mass. Multiple-filament lamp.	523,395	July 24	2106	530	68	443
Clough, Albert L., assignor of one-half to J. B. Smith, Manchester, N. H. Combined system of alternating and direct current distribution.	526,992	Oct. 2	525	{ 128 129	{ 69	98
Clouse, Joseph N. (See Kern, Bernard, Jr., assignor.)						
Clouse, William L. (See Jones and Clouse.)						
Clouser, Samuel F., Brooklyn, assignor to New York Car Switch Company, New York, N. Y. Railway-switch.	522,780	July 10	1059	261	68	216
Clouser, Samuel F., Brooklyn, assignor to New York Car Switch Company, New York, N. Y. Railway-switch.	522,782	July 10	1062	262	68	216

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Clouser, Samuel F., Brooklyn, N. Y., and E. C. Seward, Montclair, N. J., assignors, by mesne assignments, to New York Car Switch Company, New York, N. Y. Railway-switch	522,781	July 10	1061	261	68	216
Cluff, Harvey, Grand Rapids, Mich. Hydrocarbon-burner	527,012	Oct. 2	556	136	69	105
Cluley, Charles. (See Rubinstein, Cluley, and Clarke.)						
Clunies, Arthur B., assignor to Sill Stove Works, Rochester, N. Y. Cooking-stove	521,701	June 19	1681	394	67	1535
Clute, Jonas H., <i>et al.</i> (See Richmond, Samuel H., assignor.)						
Clute, Nicholas, Schenectady, N. Y. Oil-extractor	512,681	Jan. 16	1577	379	66	325
Clute, Nicholas, Schenectady, N. Y. Apparatus for feeding boilers	512,682	Jan. 16	1579	379	66	325
Coale, Joseph M., Baltimore, Md. Straightway-valve	514,180	Feb. 6	339	81	66	917
Coan, Asa M., Algona, Iowa. Lock	530,396	Dec. 4	561	139	69	1318
Coates, Hallam F., Cambridge, Ohio. Ball-bearing wheel	531,101	Dec. 18	1787	426	69	1570
Coates, William, Wellington, New Zealand. Apparatus for turning over leaves of music or other books	522,336	July 3	275	72, 73	68	55
Coatney, Lucile, Denver, Colo. Garment-waist	523,324	July 24	1991	500	68	422
Coats, Arthur W., assignor of one-half to J. Bartlett, Ukiah, Cal. Folding crate	521,640	June 19	1585	371	67	1516
Coats, Arthur W., and J. Bartlett, Ukiah, Cal. Gravel or dirt wagon	516,564	Mar. 13	1374	327	66	1724
Coats, Charles M., <i>et al.</i> (See Blankner, William, assignor.)						
Coats, Charles M., Aurora, Ill., and J. L. Sprague, Minneapolis, Minn.; said Sprague assignor to said Coats. Washing-machine	513,004	Jan. 16	2155	512	66	433
Coats, John V., Delhi, N. Y. Cannon-pinion for watches	520,298	May 22	2381	578	67	1022
Coats, Wallace M., Hillsdale Iowa. Door-stop	518,343	Apr. 17	1566	389	67	318
Coax, Earnest R., assignor of one-half to J. W. Smith, Castile, N. Y. Lawn-mower attachment	512,157	Jan. 2	723	175	66	138
Cobb, Henry B., Wilmington, Del. Lead-press	515,951	Mar. 6	340	81	66	1517
Cobb, Leander B., Boston, Mass. Boot or shoe stretcher	517,210	Mar. 27	2484	585	66	1967
Cobb, Napoleon, Pennebog, Mich. Feed-box	513,557	Jan. 30	3057	753	66	710
Cobb, W., Jr. (See Hedge, Silas D., assignor.)						
Cobb, Woodson D., Fort Worth, Tex. Trolley-catcher	528,149	Oct. 30	2487	602	69	518
Cobin, Israel J., <i>et al.</i> (See Hitt, Adrian, assignor.)						
Coblens, John Z., assignor to Eyeless Tool Company, New York, N. Y. Pick	524,818	Aug. 21	1460	356	68	959
Coblens, John Z., assignor to Eyeless Tool Company, New York, N. Y. Pick	524,819	Aug. 21	1462	357	68	959
Coblens, John Z., assignor to Eyeless Tool Company, New York, N. Y. Pick	524,820	Aug. 21	1463	357	68	959
Coburn, Alonzo A., <i>et al.</i> (See Fenderson, Edward J., assignor.)						
Coburn, Edwin E. (See Flinn, Richard J., assignor.)						
Coburn Trolley Track Manufacturing Company. (See Sumner, William J., assignor.)						
Coburn, Walter S., Cambridge, Mass. Laundry-hanging rod	519,017	May 1	125	31	67	560
Cochran, Alfred W., New York, N. Y. Knotter for sewing-machines	527,407	Oct. 16	1199	294	69	251
Cochran, Edward A., Brooklyn, N. Y. Shearing-clippers	511,931	Jan. 2	348	81	66	66
Cochran, Edward A., Brooklyn, N. Y. Shears-operating mechanism	523,266	July 17	1896	477	68	387
Cochran, Edward A., Brooklyn, N. Y. Shearing-clippers	526,917	Oct. 2	419	104	69	78
Cochran, Edward A., New York, N. Y. Hair-clipper	526,858	Oct. 2	312	76	69	59
Cochran, Frederic B., Brooklyn, N. Y., assignor to Automatic Vending Company. Coin-actuated vending-machine	520,769	June 5	12	3, 4	67	1199
Cochran, James M., Jackson, Tenn. Wrench	527,532	Oct. 16	1508	366	69	308
Cochran, John, Jr., Collins, assignor of one-half to S. F. Hurt, Stockton, Mo. Car-coupling	518,832	Apr. 24	2417	599	67	484
Cochran, Samuel. (See Neer, Harry M., assignor.)						
Cochran, William F., Osborne, Kans. Riding-harrow	519,321	May 8	700	172	67	687
Cochrane, Adam, Lowell, Mass. Electrical heater	516,152	Mar. 6	672	158	66	1578
Cochrane, Albert P., St. Louis, Mo. Sheet-packing	524,162	Aug. 7	337	80	68	723
Cochrane, Charles E., New York, N. Y. Hat-rack	520,634	May 29	2938	710	67	1142
Cochrane, Charles E., New York, N. Y. Clothes-drier	528,222	Oct. 30	2614	630	69	541
Cochrane, David, assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Feed-water heater, purifier, and separator	530,749	Dec. 11	1191	290	69	1447
Cochrane, John, Barrhead, near Glasgow, Scotland, and W. Walker, Salford, Manchester, England; said Walker assignor to said Cochrane. Pumping-engine	529,678	Nov. 20	2058	493	69	1061
Cochrane, Josephine G., Shelbyville, Ill. Dish-cleaner	512,683	Jan. 16	1581	380	66	326
Cockayne, Benjamin F., and A. L. Baron, Tiffin, Ohio; said Cockayne assignor to said Baron. Can-guard	516,965	Mar. 20	2045	484	66	1867
Cockburn, George A., <i>et al.</i> (See Pratt, Walter C., assignor.)						
Cocker, John. (See Denn, Cocker, and Denn.)						
Coddington, Bert, Conway, Ky. Poultry-fumigator	522,337	July 3	278	73	68	56
Codington, E. W., <i>et al.</i> (See Guild, George, assignor.)						
Codman & Shurtleff. (See Hesse, Frank K., assignor.)						
Codman & Shurtleff. (See Shurtleff, Asahel M., assignor.)						
Cody, Richard D., Winona, Minn. Pencil-sharpener	530,018	Nov. 27	2665	639	69	1184
Coe, Henry J., Cleveland, Ohio. Fence-post	524,018	Aug. 7	83	19	68	678
Coe, Lewis D., assignor of one-half to J. A. Lamping, Leadville, Colo. Amalgamator	531,611	Dec. 25	2702	648	69	1759
Coe, Walter H., Providence, R. I. Device for applying decorative films	526,964	Oct. 2	485	119	69	91
Coerper, Carl, Cologne, Germany. Alternating-current motor	527,195	Oct. 9	843	205	69	172
Coes, Loring, assignor to Coes Wrench Company, Worcester, Mass. Wrench	524,574	Aug. 14	1044	257	68	869
Coes Wrench Company. (See Coes, Loring, assignor.)						
Coes, Zoroaster B., assignor to Niles Tool Works Company, Hamilton, Ohio. Chuck	525,444	Sept. 4	216	53	68	1191
Coes, Zoroaster B., assignor to Niles Tool Works Company, Hamilton, Ohio. Taper-turning tool for lathes	527,140	Oct. 9	759	186	69	156
Coffey, Barton H., New York, N. Y. Gas-engine	514,211	Feb. 6	411	99	66	929
Coffey, Barton H., New York, N. Y. Gas-engine valve-gear	517,541	Apr. 3	200	46, 47	67	40
Coffin, Arthur W., San Francisco, Cal. Registering toy bank	521,641	June 19	1587	371	67	1516
Coffin, Charles A., <i>et al.</i> , administrators. (See Van Depoele, Charles J.)						
Coffin, Charles L., Detroit, Mich. Furnace for heating or working metals electrically	512,602	Jan. 9	1443	348	66	284
Coffin, Charles L., Detroit, Mich. Electrical transformer or converter	512,603	Jan. 9	1445	348	66	284
Coffin, Charles L., Detroit, Mich. Apparatus for electrically welding metal	512,604	Jan. 9	1445	348	66	284
Coffin, Charles L., Detroit, Mich. Apparatus for electrically heating or working metals	515,652	Feb. 27	2757	687	66	1417
Coffin, Charles L., Detroit, Mich. Apparatus for heating metal electrically	520,299	May 22	2382	578	67	1023
Coffin, Charles L., Detroit, Mich. Heating, welding, or working metals electrically	520,300	May 22	2384	579	67	1023
Coffin, Charles L., Detroit, Mich. Heating metals electrically	522,151	June 26	2490	597	67	1703
Coffin, Charles L., Detroit, Mich. Box or furnace for electric heating apparatus	530,019	Nov. 27	2666	640	69	1185
Coffin, Charles L., Detroit, Mich. Apparatus for welding rings	530,020	Nov. 27	2668	640	69	1185
Coffin, Charles L., Detroit, Mich. Electrically heating metal	530,021	Nov. 27	2669	640	69	1185

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Coffin, Edward L., Minneapolis, Minn. Game apparatus.	517,262	Mar. 27	2565	601	66	1982
Coffin, Harvey R. T., Glens Falls, N. Y. Combined cup and base-piece.	519,529	May 8	1083	259	67	756
Coffin, Harvey R. T., Glens Falls, N. Y. Top.	523,513	July 24	2230	586	68	480
Coffin, Walter E., Marshall, Tex. Car construction.	531,510	Dec. 25	2532	605	69	1725
Coggeshall, Carol H., assignor to Coggeshall Check Marker Company, St. Louis, Mo. Check-marker.	530,470	Dec. 4	676	168 169	69	1339
Coggeshall Check Marker Company. (See Coggeshall, Carol H., assignor.)						
Coggeshall, William T., Melrose, Mass. Steam-boiler-flue cleaner.	512,158	Jan. 2	724	175	66	138
Coghlan, Robert N., Karachi, India. Weighing apparatus.	520,301	May 22	2384	579	67	1023
Coghlin, John P., et al. (See Stearns, William E., assignor.)						
Cogswell, Handley P., Brooklyn, N. Y. Switch-operating device.	513,883	Jan. 30	3590	884	66	811
Cogswell, Henry J., Hartford, Conn. Watchmaker's length-gage.	531,435	Dec. 25	2390	572	69	1698
Cogswell, Thomas, San Diego, Cal. Fruit-basket.	515,072	Feb. 20	1801	455	66	1223
Cohen, Andrew J., Philadelphia, Pa. Register for flues.	524,310	Aug. 14	585	140	68	787
Cohen, Bernard. (See Cox, James M., assignor.)						
Cohn, Nathan. (See Rapaport, Isador B., assignor.)						
Cohen, Samuel K., Chicago, Ill. Roofing-tile.	522,879	July 10	1193	297 298	68	242
Cohen, Victor E., Philadelphia, Pa. Apparatus for the preservation of corpses.	515,994	Mar. 6	426	98	66	1531
Cohn, Oscar, Brooklyn, assignor to Yost Writing Machine Company, New York, N. Y. Typo-writing machine.	523,786	July 31	2502	696	68	584
Coker, James W., assignor to himself and P. Skalla, Niles, Mich. Grain-meter.	519,176	May 1	426	105	67	620
Colby, Caleb K., Brooklyn, N. Y. Watchcase.	512,712	Apr. 24	2222	553	67	450
Colclasure, Dudley. (See Turner, Jonah, assignor.)						
Colcord, Otis B., Greenville, Ill. Gate.	515,073	Feb. 20	1803	455	66	1224
Coldren, William P., et al. (See Conrad, William H., assignor.)						
Cole, Aaron H., Hamilton, N. Y. Dust-proof single-delivery cover-glass magazine.	530,926	Dec. 18	1477	350	69	1515
Cole, Alta M., Asheville, N. C. Clamp.	532,651	July 10	216	204	68	173
Cole, Daniel W., assignor to W. W. De Wolf, Ottawa, Kans. Hydrocarbon-burner.	512,245	Jan. 2	850	206	66	161
Cole, David S., Washington, Iowa. Photographic-camera multiplying attachment.	517,733	Apr. 3	533	130	67	104
Cole, David S., Washington, Iowa. Photographic-camera multiplying attachment.	520,034	May 22	1912	468	67	937
Cole, Ernest C., Council Bluffs, Iowa. Damper for stoves.	523,267	July 17	1897	477	68	383
Cole, Francis J., Baltimore, Md. Metallic rod-packing.	526,381	Sept. 25	1852	440 441	68	1530
Cole, Francis J., Baltimore, Md. Bicycle-brake.	527,479	Oct. 16	1325	323	69	276
Cole, Frank E., Boston, Mass. Banjo.	513,761	Jan. 30	3393	836	66	771
Cole, Fred A. (See Armstrong, Shubael T., assignor.)						
Cole, George A., and E. H. Taylor, Lynn, Mass.; said Taylor assignor to said Cole. Machine for grooving insoles.	521,583	June 19	1485	347 348	67	1498
Cole, George H., Lowell, Mass. Mechanical oiler for shafting.	515,749	Mar. 6	26	7	66	1460
Cole, George H., Lowell, Mass. Mechanical oiler for journal-bearings.	522,706	July 10	904	223	68	189
Cole, George H., Atlanta, Ga. Fanct for supplying hot or cold water.	531,585	Dec. 25	2555	636	69	1750
Cole, George W. (See Castle, William H., assignor.)						
Cole, Harrison, Columbus, Ohio. Drawing-instrument.	530,680	Dec. 11	1081	263	69	1426
Cole, Henry, Cedar Hill, Ohio. Nut-lock.	513,884	Jan. 30	3591	884	66	811
Cole, Henry S. (See Welker, Joseph, assignor.)						
Cole, I. R. (See Seaton, William, assignor.)						
Cole, Lewis H., and J. Bower, Lansing, Mich. Hydrocarbon-burner.	526,560	Sept. 25	2155	515	68	1584
Cole, Lloyd H., Pawtucket, R. I. Car-brake.	517,212	Mar. 27	2487	585	66	1967
Cole, R. D., Sr. (See Florence, George, assignor.)						
Cole, Romaine C. (See Mason and Cole.)						
Cole, Romaine C., New York, N. Y. Making culinary utensils.	513,762	Jan. 30	3393	837	66	772
Cole, Simeon L., Brooklyn, N. Y. Tramway-switch.	515,396	Feb. 27	2357	585	66	1340
Cole, Thomas A., Indianapolis, Ind., assignor of one-half to T. M. Lash, Sacramento, Cal., and J. P. Perkins, Indianapolis, Ind. Playing-card.	516,887	Mar. 20	1911	451	66	1842
Cole, Thomas C. (See Hiett and Cole.)						
Cole, Warren, Jr., Knoxville, Tenn. Canopy.	513,984	Feb. 6	18	4	66	858
Cole, Warren W., Portland, Me. Window-screen.	517,602	Apr. 3	302	70	67	59
Cole, William E., New Orleans, La. Fish trap or net.	513,443	Jan. 30	2919	719	66	685
Cole, William F., Worcester, Mass. Controlling device for elevators.	515,930	Mar. 6	308	73	66	1511
Cole, William F., Worcester, Mass. Valve-gear.	525,693	Sept. 11	641	151	68	1282
Cole, William F., Worcester, Mass. Valve mechanism for hydraulic elevators.	526,146	Sept. 18	1433	335	68	1437
Cole, William G., assignor of two-thirds to H. A. Keller and J. E. Gaylord, Butte, Mont. Wheel.	512,279	Jan. 9	907	219	66	184
Cole, William H., Portland, Oreg. Boot-jack attachment.	528,363	Oct. 30	2857	692	69	585
Cole, William R., Detroit, Mich. Telephone-transmitter.	522,404	July 3	399	102	68	79
Cole, William R., Detroit, Mich. Store-service apparatus.	529,599	Nov. 20	1939	461	69	1039
Coleman, Clarence, and R. de Saussure, Roanoke, assignors of one-third to H. J. von Hemmert and E. Muller, Norfolk, Va. Metallic cross-tie for railways.	529,679	Nov. 20	2059	493	69	1061
Coleman, Clyde J., assignor of one-half to C. Odell, Chicago, Ill. Electric motor.	516,916	Mar. 20	1964	462	66	1850
Coleman, Clyde J., assignor of one-half to C. Odell, Chicago, Ill. Electric motor.	516,917	Mar. 20	1966	463	66	1851
Coleman, Clyde J., assignor to himself and L. M. Goodrich, Chicago, Ill. Electric indicator.	526,220	Sept. 18	1567	367	68	1461
Coleman, Clyde J., assignor of one-half to R. Burns, Chicago, Ill. Electric cigar-lighter.	530,637	Dec. 11	1011	247	69	1414
Coleman, Edward P. (See Hall, Bicknell, assignor.)						
Coleman, James V., San Francisco, Cal. Adjustable partition for packing-boxes, &c.	524,163	Aug. 7	338	80	68	723
Coleman, John A., Providence, R. I. Machine for making horseshoe-nails.	531,161	Dec. 18	1899	452 453 454	69	1591
Coleman, John P., assignor to Union Switch and Signal Company, Swissvale, Pa. Electric signaling apparatus. (Reissue.)	11,428	July 10	1339	332 333	68	270
Coleman, John P., assignor to Union Switch and Signal Company, Swissvale, Pa. Signal apparatus.	526,179	Sept. 18	1485	347	68	1446
Coleman, Lewis H., Washington, D. C. Oil-filter.	511,932	Jan. 2	349	81	66	66
Coleman, Robert F., Overton, Tex. Ironing-table.	529,481	Nov. 20	1737	414	69	1001
Coler, Peter P., Clyman, Wis. Grain-binder.	513,671	Jan. 30	3248	797 798	66	745
Coles, Albert E. (See Coles, Smith, Jamieson, and Jacobs.)						
Coles, Charles J. and A. E., J. C. Smith, W. Jamieson, London, England, and A. I. Jacobs, assignors to Smyth Manufacturing Company, Hartford, Conn. Machine for making book-covers.	513,453	Jan. 23	2857	701 702 703	66	639
Coles, David H. (See Coles, John L. and D. H.)						
Coles Fine Expander and Beader Company. (See Coles, Joseph, assignor.)						
Coles, Francis A. (See Fryer and Coles.)						
Coles, John L. and D. H., Brooklyn, N. Y. Hoop-skirt.	513,885	Jan. 30	3592	884	66	811

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Coles, Joseph, Aspen, Colo., assignor, by mesne assignments, to Coles Flue Expander and Beader Company, of West Virginia. Flue expander and beader	514,588	Feb. 13	1027	258	66	1063
Coles, Theodore E., Troy, Ohio. Attachment for chimneys	515,574	Feb. 27	2637	655	66	1393
Colgan, Ellen. (See Colgan, George A., assignor.)						
Colgan, George A., assignor, by mesne assignments, to E. Colgan, Brooklyn, N. Y. Paper box	512,011	Jan. 2	470	112	66	90
Collhoun Manufacturing Company. (See Garvey, Charles J., assignor.)						
Colles, Edward G. T., Chicago, Ill. Feed-water heater	512,806	Jan. 16	1814	{ 430 431 }	{ 66 66 }	370
Colles, Edward G. T., Chicago, Ill. Combined feed-water heater and receiver	512,807	Jan. 16	1818	{ 431 432 }	{ 66 66 }	371
Colles, Edward G. T., Chicago, Ill. Combined feed-water heater and purifier	522,006	June 26	2252	540	67	1657
Colles, Edward G. T., Chicago, Ill. Feed-water heater and purifier	523,325	July 24	1992	501	68	422
Colles, Edward G. T., Chicago, Ill. Feed-water heater and purifier	523,326	July 24	1997	502	68	423
Colles, Thomas O., Manchester, England. Seat	513,484	Jan. 30	2920	719	66	685
Collett, Austin B., Lynn, assignor of one-half to J. S. Baker, Beverly, Mass. Car-brake handle	513,033	Jan. 16	2194	524	66	440
Collett, Herbert E., Chelsea, assignor of three-fourths to H. E. Collett, Jr., Lynn, Mass., C. W. Armstrong and J. H. Bing, Philadelphia, Pa. Car-brake	513,670	Jan. 30	3246	797	66	744
Collier, Arthur T., St. Albans, England, assignor to American Bell Telephone Company, Boston, Mass. Permanent magnet	518,092	Apr. 10	1126	284	67	221
Collier, John, Justus, Ohio. Coal-drill	525,093	Aug. 28	1956	478	68	1063
Collier, Page B., and J. H. Dignard, Lakeport, Cal. Boiler	519,241	May 1	548	{ 133 134 }	{ 67 67 }	643
Collin, George W., assignor of one-half to J. W. Bulla, Cordele, Ga. Arch-support, water purifier and heater	514,349	Feb. 6	634	162	66	972
Collins, Alfred A., Danville, N. H. Boot or shoe	524,886	Aug. 21	1567	383	68	977
Collins Automatic Pneumatic Switching Tubes Company. (See Collins, William G., assignor.)						
Collins Automatic Pneumatic Switching Tubes Company. (See Underwood, Herbert G., assignor.)						
Collins, Caleb G., Woodsburg, N. Y. Stone and ore crusher	519,566	May 8	1139	274	67	767
Collins, Caleb G., Woodsburg, assignor to C. A. Stevens, New York, N. Y. Device for transferring earth, ores, &c.	512,865	Jan. 16	1930	456	66	392
Collins, Charles S. (See Adams and Lynam, assignors.)						
Collins, Charles S. (See Lynam and Adams, assignors.)						
Collins, Charles S., et al. (See Lynam, John S., assignor.)						
Collins, Charles W., Granite, Mont. Hitching device	515,325	Feb. 27	2237	554	66	1318
Collins, Cornelius V. (See McPherson, Henry, assignor.)						
Collins, Edmund R. (See Twining and Collins.)						
Collins, Edward W., Coalville, Iowa. Check-row planter	528,761	Nov. 6	420	{ 101 102 }	{ 69 69 }	723
Collins, Edwin H., et al. (See Harleman, John, assignor.)						
Collins, Frank, et al. (See Harleman, John, assignor.)						
Collins, George L., and M. Keegan, Sr., Trenton, N. J. Combined paper-weight and letter-file	525,677	Sept. 4	598	143	68	1261
Collins, George R., et al. (See Davis, Riley L., assignor.)						
Collins, George W., West Lebanon, Pa. Device for loading shocks of corn	518,487	Apr. 17	1819	450	67	365
Collins, Henry and J. W., Pawtucket, R. I. Stop-motion for twisting-machines	517,030	Mar. 27	2169	513	66	1905
Collins, Herman B., Fulton, assignor of one-half to W. H. Boles, Syracuse, N. Y. Dynamic electric heater	527,050	Oct. 9	620	{ 150 151 }	{ 69 69 }	131
Collins, Jerrey W., assignor to Oneida Community, Limited, Kenwood, N. Y. Animal-trap	524,415	Aug. 14	794	194	68	823
Collins, John M., Glasgow, Scotland. Dyeing-machine	525,534	Sept. 4	357	88	68	1217
Collins, John O., assignor of one-half to G. E. Butterfield, Marblehead, Mass. Wax heel-burnishing machine	515,653	Feb. 27	2758	687	66	1418
Collins, Joseph S., Colon, Nehr. Corn-harvesting machine	516,918	Mar. 20	1970	463	66	1851
Collins, Joseph W. (See Collins, Henry and J. W.)						
Collins Plow Company. (See Brown, John W., assignor.)						
Collins, Robert F., Wichita, Kans. Furniture-hinge	523,304	July 17	1954	492	68	398
Collins, Stephen J., et al. (See Harleman, John, assignor.)						
Collins, Thomas, Sullivan county, Pa. Combined bread-tray and rolling-board	515,858	Mar. 6	203	48	66	1491
Collins, William G., New York, N. Y., assignor to Collins Automatic Pneumatic Switching Tubes Company, of New Jersey. Dispatch-tube system	518,093	Apr. 10	1127	285	67	221
Collison, Alfred W., Chicago, Ill. Attachment for vertically adjusting window-shades	518,566	Apr. 17	1958	483	67	329
Collister, John H., Cleveland, Ohio. Pants-guard	523,463	July 24	2238	562	68	464
Colman, Frank B. (See Ives and Colman.)						
Colomés, Antoine, Clermont-Ferrand, France. Leak-stopper	512,866	Jan. 16	1931	457	66	393
Colomés, Antoine, Clermont-Ferrand, France. Automatic life-preserver, buoy, &c.	519,242	May 1	549	134	67	643
Colorado Iron Works. (See Nesmith, John W., assignor.)						
Colquhoun, Alexander M., et al. (See Parker, Thomas, assignor.)						
Colson, Robert K., assignor of one-third to H. E. Dallmer, New York, N. Y. Cloth-sponging cylinder	523,107	July 17	1609	404	68	337
Colton, Arthur, Detroit, Mich. Pill-machine	513,986	Feb. 6	22	5	66	859
Colton, Arthur, Detroit, Mich. Pill-machine	525,384	Sept. 4	112	29	68	1170
Colton, George A., Chicago, Ill. Door guide and stop	513,985	Feb. 6	20	5	66	858
Columbia Cash Register Company. (See Aufuldish, John B., assignor.)						
Columbia Manufacturing Company. (See Leonhardt, Jacob, assignor.)						
Columbia Novelty and Advertising Company. (See Carter, William T., assignor.)						
Columbia Washer Company. (See Peckham and Swan, assignors.)						
Columbian Automatic Vending Machine Company. (See Tirrell and Willard, assignors.)						
Columbian Manufacturing Company. (See Duncan, Samuel Q., assignor.)						
Columbian Pottery and Brick Kiln Company. (See Kunzman, William H. R., assignor.)						
Colvin, Byron L., assignor to J. G. Cheever, North Attleborough, Mass. Chain-machine	525,076	Oct. 23	2355	{ 568 569 }	{ 69 69 }	480
Colvin, Frank R., New York, N. Y. Telephone-transmitter	513,305	Jan. 23	2621	635	66	595
Colvin, Frank R., New York, N. Y. Telephone-switch	517,263	Mar. 27	2567	602	66	1982
Colvin, Frank R., New York, N. Y. Telephone	522,707	July 10	905	224	68	190
Colvin, Frank R., New York, N. Y. Telephone-transmitter and resistance-varying material therefor	524,524	Aug. 14	966	237	68	854
Colvin, Frank R., New York, N. Y. Telephone	528,582	Nov. 6	121	29	69	668
Colvin, Frederick J., Hamden, Conn. Bit-stock	518,938	May 1	5	2	67	537
Colvin, Jasper M. (See Hiser, John J., assignor.)						
Colwell, Nicholas H., Kenton, Ohio. Latch and lock combined	524,756	Aug. 21	1351	329	68	938

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Combination Collar Company. (See Eckardt, Herman, assignor.)						
Combs, Andrew B., assignor of one-half to J. G. Walker, Eureka Springs, Ark. Brake for vessels	529,708	Nov. 27	2113	{ 506 507 }	{ 69 }	1080
Combs, Edgar S., Rochester, N. Y., assignor to Rochester Lasting Machine Company, Min- neapolis, Minn. Lasting-machine	511,835	Jan. 2	139	36	66	29
Combs, Edgar S., assignor of one-half to I. Paine, Rochester, N. Y. Telephone-switch	529,826	Nov. 27	2314	551	69	1117
Combs, George W., Leavenworth, Kans. Feeder for mill-rolls	528,077	Oct. 23	2361	570	69	481
Combs, John, assignor of one-half to W. H. Combs, Rushville, Ohio. Fence-making ma- chine	513,886	Jan. 30	3593	885	66	812
Combs, W. H. (See Combs, John, assignor.)						
Comeau, Joseph. (See Nadon, François E., assignor.)						
Comins, Frank B., Providence, R. I. Fire-pail	520,727	May 29	3103	751	67	1172
Comins, Thomas B., Boston, Mass. Device for attaching umbrellas	520,135	May 22	2109	514	67	971
Commercial Cash Register Company. (See Sebastian, Charles, assignor.)						
Commossa, Joseph T., Brooklyn, N. Y. Smoke-ring toy	515,464	Feb. 27	2460	609	66	1359
Compagnie de l'Industrie Electrique. (See Thury, René, assignor.)						
Compton, Harmon, Lynnhaven, Va. Combined planter and fertilizer-distributor	528,364	Oct. 30	2858	692	69	586
Compton, William R., et al. (See Spencer, Charles T., assignor.)						
Comstock, Alphonso S., Evanston, Ill. Tent-pole	516,078	Mar. 6	559	131	66	1557
Comstock, Benjamin F., Decatur, Ill. Electric railway	515,654	Feb. 27	2759	628	66	1418
Comstock, Cheney & Company. (See Comstock, Robert H., assignor.)						
Comstock, Robert H., assignor to Comstock, Cheney & Company, Ivoryton, Conn. Ham- mer-rail for piano-actions	525,591	Sept. 4	456	109	68	1236
Conant, Albert F., Boston, Mass. Sofa-bed	520,635	May 29	2939	710	67	1142
Conant, Edwin S., et al. (See Sythes, William H., assignor.)						
Conant, Fred L., Milton, N. H., assignor to F. W. Whitchee, Boston, Mass. Boot or shoe upper packing machine	513,763	Jan. 30	3334	837	66	772
Conant, George P., assignor of two-thirds to H. B. Tyrrell and W. C. Quigley, Lake Geneva, Wis. Cloth-measuring machine	517,437	Apr. 3	25	6	67	7
Conant, Hezekiah, Lincoln, R. I. Gravity-escapement for clocks	519,421	May 8	880	213	67	721
Conboy, Daniel, Toronto, Ontario, Canada. Carriage-top spring	529,780	Nov. 27	2329	531	69	1100
Conde, Henry T., Indianapolis, Ind. Type-writer cabinet	517,843	Apr. 10	704	178	67	151
Condé, Samuel L., Rockford, Ill. Type-writing machine	514,910	Feb. 20	1558	390	66	1179
Condé, Samuel L., Rockford, Ill. Type-writing machine	514,911	Feb. 20	1560	391	66	1180
Condé, Samuel L., Rockford, Ill. Type-writing machine	514,912	Feb. 20	1561	{ 391 392 }	66	1180
Condé, Samuel L., Rockford, Ill. Type-writer cabinet	517,031	Mar. 27	2170	514	66	1906
Condé, Samuel L., Rockford, Ill. Copy-holder for type-writers	528,531	Nov. 6	14	5	69	649
Condict, Nathan W., Jersey City, N. J. Pipe-joint	521,017	June 5	472	113	67	1282
Condit, C. M., et al. (See Proctor, Charles B., assignor.)						
Condit, Israel D., Jr. (See Gibney, Terence, assignor.)						
Condit, William W., Battle Creek, Iowa. Corn-harvester	512,280	Jan. 9	907	{ 220 221 }	66	184
Conduit Construction Company. (See Green, John J., assignor.)						
Cone, Norris H., Leadville, Colo. Filter-barrel	530,397	Dec. 4	562	140	69	1318
Conekin, Dawson, assignor of two-thirds to J. J. Igoe and J. J. O'Connor, Charleston, S. C. Shell-fuse	523,881	July 31	2978	741	68	617
Congelton, Osborn, and G. R. Boyd, assignors of one-third to O. H. Bair, Philadelphia, Pa. Hat-pin	530,927	Dec. 18	1478	350	69	1515
Conger, Charles A., San Francisco, Cal. Buckle	520,588	May 29	2867	694	67	1130
Conkey, John F. (See Toland and Conkey.)						
Conklin, Oliver F., assignor to Dayton Fan and Motor Company, Dayton, Ohio. Electric motor	516,263	Mar. 13	868	{ 202 203 }	66	1631
Conkling, Addison, Plainfield, N. J. Inkstand-bracket	526,382	Sept. 25	1854	441	68	1531
Conkling, Allen, Chicago, Ill. Starching-machine	520,668	May 29	3001	{ 724 725 }	67	1153
Conkling, Allen, and E. W. Buell, Chicago, Ill., assignors to Troy Laundry Machinery Company, Limited, Troy, N. Y. Neckband-clamp	527,408	Oct. 16	1202	295	69	251
Conkling, Gordon, Glens Falls, N. Y. Feeding mechanism for magnetic separators	517,734	Apr. 3	531	130	67	104
Conkwright, Stonewall J., Winchester, Ky. Land-marker	527,362	Oct. 9	1122	274	69	223
Conkwright, Stonewall J., Winchester, Ky. Convertible agricultural machine	527,363	Oct. 9	1123	{ 274 275 }	69	223
Conkwright, Stonewall J., Winchester, Ky. Grain-drill	527,364	Oct. 9	1128	{ 275 276 }	69	224
Conley, John, New York, N. Y. Wrapper for tobacco	526,517	Sept. 25	2094	499	68	1574
Conley, Joseph, St. Joseph, assignor to Conley & Wolfe Improved Kiln Company, Tarkio, Mo. Brick-kiln	513,034	Jan. 16	2195	524	66	440
Conley, Joseph, St. Joseph, assignor to Conley & Wolfe Improved Kiln Company, Tarkio, Mo. Brick-kiln	513,035	Jan. 16	2196	{ 524 525 }	66	441
Conley, Joseph, St. Joseph, assignor to Conley & Wolfe Improved Kiln Company, Tarkio, Mo. Brick-kiln	513,036	Jan. 16	2197	525	66	441
Conley, Joseph, St. Joseph, assignor to Conley & Wolfe Improved Kiln Company, Tarkio, Mo. Brick-kiln	513,037	Jan. 16	2198	{ 525 526 }	66	441
Conley, Joseph, St. Joseph, assignor to Conley & Wolfe Improved Kiln Company, Tarkio, Mo. Brick-kiln	513,038	Jan. 16	2199	526	66	442
Conley & Wolfe Improved Kiln Company. (See Conley, Joseph, assignor.)						
Conly, Mahlon S., Chicago, Ill., assignor to United States Electric Railway Signal Com- pany, New York, N. Y. Auxiliary signaling system for railways	528,122	Oct. 23	2437	590	69	494
Conn-Hagan Company. (See Hagan, Louis T., assignor.)						
Conn, Samuel A. (See Hagan, Louis T., assignor.)						
Connally, George R., Tupelo, assignor of one-half to G. W. Lowery, Plymouth, Miss. Can- ister and measure	522,969	July 17	1368	339	68	290
Connell, James D. (See Nolan and Connell.)						
Connell, Robert, Osprey, Canada. Grain-shocking machine	517,095	Mar. 27	2292	{ 540 541 }	66	1929
Connell, Walter G., Philadelphia, Pa. Loom	522,554	July 3	641	{ 163 164 }	68	125
Connell, Walter G., Philadelphia, Pa. Woven fabric	522,555	July 3	647	164	68	127
Connell, Walter G., Philadelphia, Pa. Woven fabric	522,556	July 3	650	165	68	127
Connell, William H., Wilmington, Del. Support for electric lights	518,713	Apr. 24	2223	{ 553 554 }	67	450
Connell, William H., Wilmington, Del. Electric-light support	524,706	Aug. 21	1264	{ 311 312 }	68	923
Connelly, Daniel, and C. E. Schafer, Cleveland, Ohio. Steam-boiler	526,024	Sept. 18	1220	281	68	1399

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Connelly, Patrick, Rochester, N. Y. Chill for cast-iron car-wheels	530,884	Dec. 11	1404	334	69	1486
Conner, Benjamin F., Columbia, Pa. Boiler	528,762	Nov. 6	425	102	69	724
Conner, Charles K., New Philadelphia, Ill. Corn-harvesting machine	521,101	June 5	623	147	67	1309
Conner, Daniel E., Covington, Ky., assignor of one-half to J. W. Gallup, Cleveland, Ohio. Electric conductor for underground conduits	518,939	May 1	6	2	67	538
Conner, Francis R., Buffalo, Ky. Fence-wire tightener	529,709	Nov. 27	2114	507	69	1081
Conner, George F., Watertown, S. D. Shoe attachment for thrashing-machines	530,090	Dec. 4	25	7	69	1219
Conner, John, Pittsburg, Pa. Drilling apparatus	523,787	July 31	2905	697	68	584
Conner, Joseph, New York, N. Y. Lock for breakdown guns	517,032	Mar. 27	2171	514	66	1906
Conner, Patrick H., and L. Clark, Monticello, Iowa. Husking-machine feed-roll	527,409	Oct. 16	1204	295	69	252
Conner, John, Long Island City, N. Y. Stringed instrument	526,221	Sept. 18	1563	368	68	1461
Conness, Walter K., Sacramento, Cal. Valve drain-cup	525,535	Sept. 4	360	88	68	1218
Connet, Frederick N., and W. W. Jackson, Providence, R. I. Integrating apparatus	529,365	Nov. 20	1508	362 363	69	961
Connolly, James N., New York, N. Y. Electric signaling device	514,212	Feb. 6	414	100	66	930
Connor, David. (See Seberg and Connor.)						
Conover, Chauncy E., Cincinnati, Ohio. Insulator	520,412	May 29	2569	622	67	1075
Conrad, George E., Chicago, Ill. Device for affixing postage-stamps	513,887	Jan. 30	3594	885	66	812
Conrad, William H., assignor of two-thirds to J. M. Shenk and W. P. Coldren, Lebanon, Pa. Controlling device for electric-railway cars	525,336	Sept. 4	19	4, 5	68	1155
Conrad, William H., assignor of one-half to L. H. Buchanan and A. R. Metcalf, Pasadena, Cal. Combined folding and revolving display-rack	531,022	Dec. 18	1651	391	69	1545
Conrader, Rudolph, Erie, Pa. Machine for grinding spherical or other surfaces	513,631	Jan. 30	3179	700	66	732
Conrader, Rudolph, Erie, Pa. Machine for grinding spherical or other curved surfaces	513,632	Jan. 30	3181	781	66	733
Conradson, Conrad M., Madison, Wis. Turret-lathe	523,327	July 24	2001	502 503 504	68	423
Conradson, Conrad M., Madison, Wis. Chuck	523,328	July 24	2005	504	68	424
Conradson, Conrad M., Madison, Wis. Gear-cutter	527,410	Oct. 16	1206	295 296	69	252
Conroy, Patrick J., Philadelphia, Pa. Tool for making pins, bolts, and rivets	520,636	May 29	2940	711	67	1143
Consolidated Brake Adjuster Company. (See Marshall, Waldo H., assignor.)						
Consolidated Car-Heating Company. (See McElroy, James F., assignor.)						
Consolidated Fastener Company. (See Dowse, William B. H., assignor.)						
Consolidated Fastener Company. (See Raymond, Pierre A., assignor.)						
Consolidated Manufacturing Company. (See Besson, Hyppolite, assignor.)						
Consolidated Safety Pin Company. (See Bryant, Charles A., assignor.)						
Constant, Thomas D., Philadelphia, Pa. Fountain-brush	524,132	Aug. 7	284	66	68	714
Constien, Henry. (See Brocklehurst, Herbert, assignor.)						
Conti, James T. F., Paris, France. Motor-charging device	531,511	Dec. 25	2533	606 607	69	1725
Converse, Edmund. (See Turner, William A., assignor.)						
Converse, Everett H., et al. (See Mills, Jonathan, assignor.)						
Converse, Morton E., Winchendon, Mass. Bed or crib	523,514	July 24	2331	586	68	481
Converse, Susan T., Woburn, Mass. Underwaist	513,633	Jan. 30	3182	781	66	733
Convert, Charles F. A., Chicago, Ill. Apparatus for carbonating liquids	516,590	Mar. 13	1415	335	66	1731
Convert, Charles F. A., Chicago, Ill. Apparatus for releasing carbonic-acid gas	518,587	Apr. 24	1994	493 494	67	411
Convert, Charles F. A., assignor to Liquid Carbonic Acid Manufacturing Company, Chicago, Ill. Making fuel-gas from crude oil	517,681	Apr. 3	450	109	67	87
Conway, David B., Moorland, Iowa. Tobacco-cutter	511,753	Jan. 2	21	6	66	7
Conway, George M., Milwaukee, Wis. Furnace	520,035	May 22	1913	469	67	937
Conway, Richard, Argenville, Mo. Hand-plow	516,521	Mar. 13	1311	312	66	1712
Conway, Thomas, Kansas City, Mo. Brake-actuating mechanism	517,112	Mar. 27	2317	545 546	66	1935
Conyngham, Philip, and W. R. Gibbons, Wilkes-Barre, Pa. Pulley	519,493	May 8	1002	242	67	741
Cook, Adolph W., et al. (See Cook, George, assignor.)						
Cook, Adolphus H., assignor of one-half to A. Hisey, Almira, Canada. Portable sectional fence	530,068	Nov. 27	2755	661	69	1201
Cook, Alfred F., St. Louis, Mo. Water-filter	522,512	July 3	574	147	68	113
Cook, Anna M. (See Cook, Hugo, assignor.)						
Cook, Annie C., Council Bluffs, Iowa. Vegetable-slicing machine	524,575	Aug. 14	1045	258	68	869
Cook, Byron D. (See Cook, William H. and B. D.)						
Cook, Daniel, Philadelphia, assignor of one-half to N. Lossand, Sharon Hill, Pa. Adjustable waiter for invalid bedsteads or chairs	518,733	Apr. 24	2262	562	67	457
Cook, David F. S., Kokomo, Ind. Vending-machine	516,675	Mar. 20	1569	373 374	66	1778
Cook, Eugene, Kalamazoo, Mich. Railway cattle-guard	520,178	May 22	2182	531	67	985
Cook, Eugene, Kalamazoo, Mich. Railway cattle-guard	520,179	May 22	2183	532	67	985
Cook Flour Bin Company. (See Cook, William H. and B. D., assignors.)						
Cook, Frederick A., assignor of one-half to F. Hamilton, St. Louis, Mo. Buttonhole-strip and making same	514,415	Feb. 6	727	125	66	990
Cook, George, Buffalo, N. Y. Steam-chest for engines	516,264	Mar. 13	869	203	66	1631
Cook, George, Buffalo, N. Y. Balanced slide-valve	527,141	Oct. 9	761	186	69	156
Cook, George, assignor of three-fourths to A. W. Cook, G. Burgesser, and J. Schnarr, Newark, N. J. Adjustable shade-roller bracket	518,208	Apr. 10	1331	333	67	260
Cook, George F. (See Hare and Cook.)						
Cook, George F., Lansingburg, assignor to Capital Cash Register Company, Troy, N. Y. Cash-register	519,567	May 8	1141	274 275	67	767
Cook, Gustave. (See Gardner, Cook, and Tannenberg.)						
Cook, Henry C., Ansonia, Conn. Machine for making corset-stays	514,213	Feb. 6	415	100 101	66	930
Cook, Henry O. (See Cook, James H., Jr., assignor.)						
Cook, Hugo, Dayton, Ohio. Manual recorder and indicator	525,839	Sept. 11	915	204 205 206 389	68	1330
Cook, Hugo, assignor to A. M. Cook, Dayton, Ohio. Cash register, indicator, and recorder	518,344	Apr. 17	1557	390 391	67	318
Cook, James F., Mansfield, Pa. Conduit electric railway	519,380	May 8	810	198	67	708
Cook, James H., Jr., assignor of one-half to H. O. Cook, Homer, Mich. Knife	530,913	Dec. 11	1449	344	69	1495
Cook, John. (See Illsley and Cook.)						
Cook, John, Burnside Crossing, Ill. Wrapper for torpedoes	515,931	Mar. 6	310	74	66	1511
Cook, John A., Buffalo, N. Y. Pencil-lead	524,757	Aug. 21	1352	330	68	938

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Cook, John B., Lansing, Mich. Trousers-stretcher	529,600	Nov. 20	1940	462	69	1039
Cook, John F., St. Louis, Mo. Wrench	516,591	Mar. 13	1416	336	66	1731
Cook, John H., West Springfield, Mass., assignor to W. H. Brodie, Brooklyn, N. Y. Over-head track	513,306	Jan. 23	2623	636	66	595
Cook, Owen E. (See Warner and Cook.)						
Cook, Roswell F., Ithaca, N. Y. Cane-gun	517,438	Apr. 3	27	6	67	8
Cook, Sidney, Leavenworth, Kans. Fire-escape	514,543	Feb. 13	944	238	66	1048
Cook, Stephen S. (See Branson and Cook.)						
Cook, Thomas C., assignor of five-eighths to W. J. Montgomery, J. L. Crowell, and J. A. Kimmons, Concord, N. C. Device for placing tiles	517,329	Mar. 27	2674	627	66	2004
Cook, Truman D., Topeka, Kans. Windmill	517,542	Apr. 3	204	47	67	41
Cook, Victor A., Averill Park, N. Y. Cushion for telephone-receivers	514,913	Feb. 20	1562	392	66	1180
Cook, William H. and B. D., Homer, Mich., assignors to Cook Flour Biscuit Company, Chicago, Ill. Combined flour bin and sieve	516,367	Mar. 13	1046	248	66	1663
Cook, William M., Julian, Ala. Portable fence	527,773	Oct. 23	1892	434	69	380
Cooke & Cobb Company. (See Doughty, George E., assignor.)						
Cooke, Daniel, Camden, N. J. Apparatus for delivering mail	516,522	Mar. 13	1312	312	66	1712
Cooke, Edward D., Chicago, Ill. Lamp-shade	512,364	Jan. 9	1043	254	66	209
Cooke, Edward D., Chicago, Ill. Shade forming and cutting die	512,634	Jan. 16	1586	381	66	327
Cooke, James N., et al. (See Barr, John U., Jr., assignor.)						
Cooke, John L. (See Ench, Fugel, Cooke, and Schultze.)						
Cooke, Pitt, and J. L. Harley, Washington, D. C. Coin-controlled lock for telephones	525,094	Aug. 29	1958	479	68	1063
Cooke, Susan V. (See Cooke, William H., assignor.)						
Cooke, William, Oxtou, England. Automatic governor	519,322	May 8	703	173	67	687
Cooke, William C., London, England. Detachable cover or appliance for covering buttons	516,787	Mar. 20	1749	412	66	1809
Cooke, William H., assignor to S. V. Cooke, Whitehall, N. Y. Automatic fuel-feeding measuring and regulating device	515,932	Mar. 6	311	74	66	1511
Cookerly, Charles E., assignor of one-half to F. F. Schmidt, Kansas City, Mo. Hydrocarbon-burner	531,289	Dec. 18	2139	512 513	69	1635
Coolbaugh, Frank W., et al. (See Smith, Calvin A., assignor.)						
Cooley, Charles E. (See McLaughlin and Cooley.)						
Cooley, Charles H., assignor to Pratt & Whitney Company, Hartford, Conn. Automatic grain-scale	529,246	Nov. 13	1293	311 312	69	900
Cooley, Edward A., Cloverdale, Cal. Box wiring or hooping machine	529,247	Nov. 13	1299	312	69	901
Cooley, Henry B., J. M. Noble, Hartford, Conn., and J. E. Trevor, Manchester, England. Paper-feeding machine	530,328	Dec. 4	446	112	69	1295
Cooley, Herbert M., Kansas City, Mo. Sad-iron	530,885	Dec. 11	1405	331	69	1486
Cooley, Robert L., assignor of one-half to J. T. Prendergast, Abilene, Kans. Automatic feeder for thrashing-machines	522,451	July 3	480	122	68	96
Cooley, Robert L., assignor of one-half to J. T. Prendergast, Abilene, Kans. Band-cutting attachment for thrashing-machines	529,601	Nov. 20	1941	462	69	1039
Coombs, Frederick M., Aspen, Colo. Car-coupling	520,393	May 22	2539	613	67	1053
Coombs, Frederick M., Aspen, Colo. Car-coupling	520,394	May 22	2540	614	67	1054
Coombs, William H., Rockland, Me. Bevel	524,933	Aug. 21	1652	404	68	991
Coon, A. Spencer, et al. (See Braddock, Warren L., assignor.)						
Coon, George C., Elizabeth, N. J., assignor to F. G. Van Vliet, New York, N. Y. Machine for wiring corks in bottles	512,281	Jan. 9	910	221 222	66	184
Cooney, John W., New York, N. Y. Pipe-fitting apparatus	519,568	May 8	1146	275	67	768
Coonradt, Arthur R. (See Coonradt, Philip A. and A. R.)						
Coonradt, Philip A. and A. R., Rockford, Ill. Street-railway brush	513,888	Jan. 30	3594	885	66	812
Coons, Solomon, and E. O. Rogers, Orbisonia, Pa. Lathe-chuck	518,136	Apr. 10	1195	300	67	234
Cooper, Alfred, Baltimore, Md. Paddle-wheel for steamships	522,527	July 10	1130	280	68	229
Cooper, Alfred J., Duryea, Pa. Drill-head	526,297	Sept. 18	1696	400	68	147
Cooper, Anna R., Jersey City, N. J. Knee-desk and reading-stand	527,108	Oct. 9	705	173	69	146
Cooper, Arthur W. (See Briggs, Orlando P., assignor.)						
Cooper, Charles W., New York, N. Y. Apparatus for forming glue into sheets	521,945	June 26	2125	509 510	67	1636
Cooper, Charles W., New York, N. Y. Apparatus for evaporating liquids	521,946	June 26	2131	510	67	1637
Cooper, Charles W., New York, N. Y. Apparatus for making glue	521,947	June 26	2134	511 512	67	1637
Cooper, Charles W., New York, N. Y. Apparatus for making glue	521,948	June 26	2139	512	67	1638
Cooper, Charles W., New York, N. Y. Vacuum-pan	521,974	June 26	2180	523 524	67	1645
Cooper Chemical Company. (See Manning, Edwin C., assignor.)						
Cooper, Daniel M., Rochester, N. Y. Workman's time-recorder	528,223	Oct. 30	2615	630 631	69	541
Cooper, Edward H., assignor of one-half to F. M. Givens, Fond du Lac, Wis. Horse-cover	518,833	Apr. 24	2419	599	67	485
Cooper, Frank J. (See Vanorman, Oliver, assignor.) (Reissue.)						
Cooper, Frederick W., assignor of one-half to C. H. Merritt, Danbury, Conn. Machine for attaching sweat leathers and bands to hats by means of wire staples	519,885	May 15	1667	406	67	877
Cooper, Harry, Toronto, assignor of two-thirds to J. Robertson, Steubenville, Ohio. Wrench	512,159	Jan. 2	735	176	66	138
Cooper, Henry C., Springfield, Ill. Manual sales-recorder	527,667	Oct. 16	1626	392	69	330
Cooper, Herbert W., Moline, Ill. Horse-collar fastener	527,142	Oct. 9	763	186	69	157
Cooper, James B., assignor of one-fourth to C. M. Way, Minneapolis, Minn. Hose-leak stop or jacket	518,805	Apr. 24	2377	588	67	477
Cooper, James G., Cincinnati, Ohio. Feed-water heater and purifier	514,814	Feb. 13	1394	351	66	1135
Cooper, James O., and A. S. Jacoby, Guthrie, Okla. Ter. Barrel-cover	526,687	Oct. 2	25	7	69	7
Cooper, John, Huron, S. D. Carpet-stretcher	515,995	Mar. 6	427	98	66	1531
Cooper, John D., Cheboygan, Mich. Diving apparatus	530,398	Dec. 4	564	140	69	1318
Cooper, John H., Milford, Ind., assignor of one-half to S. Laving, Fairbury, Ill. Base for fence-posts	519,445	May 8	915	221	67	727
Cooper, John M. (See Robertshaw and Cooper.)						
Cooper, John W., Gilbert's Mills, N. Y. Car-truck	513,889	Jan. 30	3595	885 886	66	812
Cooper, Joseph, Racine, Wis. Comb-cleaner	525,337	Sept. 4	21	5	68	1155
Cooper, Lunzo J., Covington, Ky., assignor of two-thirds to L. J. and H. C. Hunter, Cincinnati, Ohio. Permutation-lock	513,764	Jan. 30	3396	837	66	772
Cooper, W. R., et al. (See Tatem, James W., assignor.)						
Cooper, William. (See Maddox, John A., assignor.)						
Cooper, William, Minneapolis, Minn. Controller for electric motors	518,345	Apr. 17	1579	391	67	321
Cooper, William H. (See Mowry, Harley W., assignor.)						
Cooper, William S., Newport, R. I. Mustache-curler	524,576	Aug. 14	1046	258	68	870
Coover, Percy K., Mechanicsburg, Pa. Horse-collar	520,413	May 29	2571	622	67	1076

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Cope, Marshall M., Noyo, Cal. Saw-handle.....	529,063	Nov. 13	977	230	69	844
Cope, Melvin B., Milwaukee, Wis. Valve-gear for steam-engines.....	531,409	Dec. 25	2346	⁵⁵⁹ 560 ²⁵⁵ 266	69	1690
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Portland, Me., and Boston, Mass. Type-writing machine.....	512,365	Jan. 9	1044	²⁵⁵ 266	66	209
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Band-brake for vehicles.....	516,986	Mar. 20	2079	492	66	1872
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Pedal.....	527,520	Oct. 16	1389	338	69	286
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Brake mechanism.....	528,854	Nov. 6	608	¹⁴⁴ 145	69	757
Copeland, James S., Hartford, Conn., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Crank-shaft and bearing for velocipedes.....	529,110	Nov. 13	1053	234	69	857
Copeland Rapid Laster Manufacturing Company. (See Crisp, Joseph E., assignor.)						
Copeland Rapid Laster Manufacturing Company. (See Ethridge, Martin R. and F. N., assignors.)						
Copeland, Robert J., and C. H. Steelting, assignors to said Copeland and W. A. Vawter, Chicago, Ill. Autographic recording device.....	513,558	Jan. 30	3058	⁷⁵³ 754	66	711
Copland, Edith, Washington, D. C. Heating attachment for gas-burners.....	516,153	Mar. 6	673	158	66	1579
Copland, Virginia I., Washington, D. C. Shade attachment for gas-jets.....	524,459	Aug. 14	860	211	68	836
Copley, William, Halifax, and H. E. Hodgson, Cleckheaton, England. Straightening-machine for shafting.....	525,003	Aug. 23	1786	436	68	1033
Coppage, Benjamin D., Wilmington, Del. Latch-lock.....	527,944	Oct. 23	2119	⁵⁰⁸ 509	69	437
Coppage, William, assignor of one-half to W. H. Larimer, Terre Haute, Ind. Cord-holder for grain-binders.....	515,113	Feb. 20	1863	467	66	1234
Coppersmith, Edward, <i>et al.</i> (See Kinney, George F., assignor.)						
Coppersmith, Jacob, Erie, Pa. Automatic safety relief-valve for air-brakes.....	527,143	Oct. 9	765	187	69	157
Coram, John C., Lowell, assignor of one-half to D. M. Belches, Brookline, Mass. Expansion-shaft.....	523,150	Oct. 30	2489	603	69	519
Corbeille, Louis. (See Coto and Corbeille.)						
Corbett, Edwin R. (See Corbett, Joseph and E. R.)						
Corbett, John C., Corbett, N. C. Type-holder.....	524,460	Aug. 14	862	211	68	836
Corbett, Joseph and E. R., assignors to T. F. Shaw, New York, N. Y. Envelope-machine.....	523,536	Sept. 4	362	⁸⁹ 90 91	68	1218
Corbin Cabinet Lock Company. (See Judd, Edward A., assignor.)						
Corbin, Charles B., assignor of one-half to W. J. Corbin, Grand Rapids, Mich. Fish-line reel	520,517	May 29	2744	665	67	1105
Corbin, Charles B., assignor of one-half to W. J. Corbin, Grand Rapids, Mich. Adjustable window-shade shifter.....	522,557	July 3	652	165	68	127
Corbin, George C. and T. A., North Danville, Va. Railway-crossing gate.....	517,792	Apr. 3	629	157	67	122
Corbin, George H., <i>et al.</i> (See Sellock, Theodore G., assignor.)						
Corbin, P. & F. (See Glover, Charles, assignor.)						
Corbin, Thomas A. (See Corbin, George C. and T. A.)						
Corbin, William J. (See Corbin, Charles B., assignor.)						
Coreoran, William D. (See Capper, Charles, assignor.)						
Cordes, V. A., <i>et al.</i> (See Southworth, Walter H., assignor.)						
Corey, Charles W., Middleborough, Mass. Line spacing device for type-writing machines.....	523,623	July 24	2506	629	63	514
Coriasco, Stefano, New York, N. Y. Spiral guide for machines for making wire coils.....	527,945	Oct. 23	2121	509	69	437
Cork Company. (See Howard, John E., assignor.)						
Corkran, Samuel. (See Funke, Robert C., assignor.)						
Corlett, Charles O., <i>et al.</i> (See Blankner, William, assignor.)						
Corn, Henry, <i>et al.</i> (See Deming, Edward, assignor.)						
Corn, Samuel, <i>et al.</i> (See Deming, Edward, assignor.)						
Cornbrooks, William A., assignor to Williams, White & Company, Moline, Ill. Drop-hammer.....	524,311	Aug. 14	586	141	68	787
Corneliussen, Ivar, Chicago, Ill. Journal-bearing.....	525,338	Sept. 4	22	5	68	1155
Corneliussen, Ivar, Chicago, Ill. Journal-bearing.....	531,410	Dec. 25	2348	560	69	1690
Cornell, Charles L. (See Bettinger, John J., assignor.)						
Cornell, Evan W., assignor of one-half to F. H. Knapp, Adrian, Mich. Can-labeling machine.....	514,705	Feb. 13	1221	304	66	1102
Cornell, John M., New York, N. Y. Construction of buildings.....	523,425	July 24	2159	⁵⁴³ 544	68	452
Cornell, Joseph, Potsdam, N. Y. Folding chair.....	514,445	Feb. 13	774	198	66	1017
Cornell, William M., Brownville, N. Y. Making paper-pulp boards in imitation of natural wood.....	522,513	July 3	575		68	114
Cornell, William N., and J. W. McCulloch, Brownville, N. Y. Pulp-strainer.....	513,454	Jan. 23	2864	703	66	640
Cornely, Emile and R., Paris, France. Sewing-machine.....	522,823	July 10	1131	²⁸⁰ 281	68	229
Cornely, Robert. (See Cornely, Emile and R.)						
Cornett, James P., Claxhew, near Sunderland, England. Beating-engine.....	524,934	Aug. 21	1653	⁴⁰⁴ 405	68	992
Corns, Charles F., and S. W. Jenks, Dayton, Ohio. Wire-fence stretcher.....	523,329	July 24	2007	505	68	425
Corrington, Murray, New York, N. Y. Railway signaling system.....	528,593	Nov. 6	12	29, 30	69	668
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Shelf-bracket.....	512,685	Jan. 16	1528	381	66	327
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Shelf-bracket.....	515,194	Feb. 20	1994	496	66	1259
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Shelf-bracket.....	516,475	Mar. 13	1219	292	66	1696
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Drive-chain.....	518,307	Apr. 17	1496	374	67	306
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Hinge.....	518,308	Apr. 17	1497	375	67	306
Corscaden, Thomas, assignor to Stanley Works, New Britain, Conn. Manufacture of strap-hinges.....	519,243	May 1	551	134	67	644
Cortright, Moses I., Port Byron, N. Y., assignor of one-half to D. B. Ingram and C. E. McEachron, Hill City, S. D. Sectional cam for ore-batteries.....	522,880	July 10	1194	298	68	242
Cory, Christopher C. (See Cory, Moses W. and C. C.)						
Cory, Moses W. and C. C., Durant, Miss. Woodworking-machine.....	513,964	Jan. 30	3703	912	66	834
Corzilius, Jakob, Paterson, N. J. Pile-fabric loom.....	522,931	July 10	1296	³²² 323	68	261
Cosgrove, John C. (See Fullenlove, McClelland C., assignor.)						
Cosper, William P., Chicago, Ill. Dummy type-writing machine.....	511,754	Jan. 2	22	6	66	7
Costello, George J., Philadelphia, Pa. Key-seating machine.....	512,898	Jan. 16	1823	432	66	372
Costello, Thomas H., assignor to A. H. Andrews & Company, Chicago, Ill. Chair.....	522,652	July 10	817	204	68	174
Costigan, Alexander H., Montreal, Canada. Office-file.....	516,523	Mar. 13	1313	312	66	1713
Cote, François X., and L. Corbeille, Everett, Wash. Saw-guard.....	522,684	July 10	871	215	68	184
Coté, Louis, St. Hyacinthe, Canada. Heel-stiffener machine.....	515,114	Feb. 20	1863	468	66	1235

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Côte, Majarique, Millis, Mass. Dust-pan	521,919	June 26	2141	512	67	1639
Cotter, Peter G., Yuma, L. Holladay, Pima, and R. J. Duncan, Yuma, Ariz. Ter. Pilot-bar lifter	522,452	July 3	482	122	68	96
Cottier, William T., Los Angeles, Cal. Box-fastener	511,933	Jan. 2	352	82	66	67
Cottier, William T., Los Angeles, Cal. Fruit box or crate	512,809	Jan. 16	1825	432	66	372
Cottier, William T., Los Angeles, Cal. Ventilator	517,793	Apr. 3	631	158	67	122
Cottier, William T., Los Angeles, Cal. Ventilated freight-car	517,794	Apr. 3	632	158	67	123
Cottrell, Charles P., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., and New York, N. Y. Printing-machine	517,682	Apr. 3	451	109	67	87
Cottrell, Charles P., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., and New York, N. Y. Printing-machine	517,973	Apr. 10	920	230	67	188
Cottrell, Charles W., Washougal, Wash. Lantern or lamp extinguisher	521,642	June 19	1590	372	67	1517
Cottrell, Edgar H., Stonington, Conn., assignor, by mesne assignments, to C. B. Cottrell & Sons Company, Stonington, Conn., and Jersey City, N. J. Apparatus for cleaning the forms of rotary printing-machines	511,934	Jan. 2	353	82	66	67
Cottrell, Edgar H., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., and New York, N. Y. Offset mechanism for printing-machines	527,774	Oct. 23	1803	435	69	380
Cottrell, Edgar H., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, Jersey City, N. J., and Westerly, R. I. Offset mechanism for printing-machines	527,775	Oct. 23	1805	435	69	380
Cottrell, Herbert, Newark, N. J. Electrical glow-lamp	515,465	Feb. 27	2161	609 610	66	1359
Cottrell, Herbert, Newark, N. J. Telephone-transmitter	518,916	Apr. 24	2557	632	67	512
Cottrell, Samuel H., Jasper, Ala. Automatic brake	514,644	Feb. 13	1116	279	66	1081
Cotzhansen, Alfred von, Milwaukee, Wis. Advertising or display device	529,602	Nov. 20	1944	462	69	1040
Cotzhansen, Alfred von, Milwaukee, Wis. Knockdown display device	529,603	Nov. 20	1945	463	69	1040
Couch, Charles A., Columbus, Ohio, assignor to E. N. Tanner, Monson, Mass. Locomotive	528,078	Oct. 23	2363	570	69	481
Couch, Edwin A., Plainfield, N. J. Dish-cleaner	528,426	July 24	2161	545	68	452
Couch, Elbert M., Northampton, Mass. Cylinder-actuating mechanism for revolvers	516,476	Mar. 13	1221	293	66	1696
Couch, Elbert M., Northampton, Mass. Machine for counterboring barrels of revolver-casings	530,823	Dec. 11	1306	315	69	1469
Couch, Elbert M., Northampton, Mass. Machine for counterboring chambers of revolver-cylinders	530,824	Dec. 11	1307	315	69	1469
Couch, Joel, Clayton, N. Y. Centerboard for boats	518,364	Apr. 17	1624	400	67	329
Couden, F. M., et al. (See Bright, William H., assignor.)	529,646	Nov. 20	2009	481	69	1051
Coughlin, Cornelius, Cincinnati, Ohio. Street-railway switch	520,302	May 22	2385	580	67	1024
Coughlin, Edward W., Baltimore, Md. Railway-switch	515,635	Feb. 27	2160	68	66	1418
Coughlin, William J., Lowell, Mass. Automatic railway-switch	515,636	Dec. 4	143	37	69	1241
Coulson, Fred A., Detroit, Mich. Child's seat for bicycles	530,160	Dec. 4	1763	37	69	1241
Coulston, J. Warren. (See Grier, Matthew J., assignor.)	530,506	Dec. 11	765	187 188	69	1372
Coidter, Joseph M., Portland, Oreg. Steam fruit-drier	522,007	June 26	2256	540	67	1658
Coulter, William B., Waterbury, Conn. Fastening device for package-wrappers	519,105	May 1	281	67	67	589
Coup, John, Cleveland, Ohio. Car-coupling	519,106	May 1	284	68	67	590
Coupal, Peter A., Boston, and P. A. Vogt, Everett, Mass. Engraving-machine	513,039	Jan. 16	2200	526 527	66	442
Courtial, Auguste, Turin, Italy. Stop mechanism for shafting	512,578	Jan. 9	1407	340	66	277
Courtland, William A., New York, N. Y. Bicycle	520,728	May 29	3104	751 752	67	1172
Courtman, Renben S. (See Cayley and Courtman.)	523,974	Aug. 7	10	3	68	664
Courtney, Andrew J., Pine Ridge, Cal. Clamp	521,154	June 12	717	168	67	1340
Courtney, John J., Minneapolis, assignor to Walter A. Wood Harvester Company, St. Paul, Minn. Bundle-carrier for harvesters	515,115	Feb. 20	1866	468	66	1235
Courtney, William P., assignor of one-half to A. Brown, Oakland, Cal. Automatic grip-opener	520,180	May 22	2184	532	67	986
Courtright, Albert S. (See Meggenhofen and Courtright.)	525,140	Sept. 11	992	206	68	1331
Courtright, Archibald L., Keokuk, Iowa. Hay ricker or loader	513,380	Jan. 23	2736	665	66	616
Courtright, Archibald L., Keokuk, Iowa. Lightning-arrester	521,702	June 19	1682	395	67	1535
Courtright, Charles D., and C. A. Powell, Kenesaw, Nebr. Device for cutting corn	526,343	Sept. 18	1768	420	68	1502
Conse, Charles, Belleville, N. J. Lubricator	529,604	Nov. 20	1947	463	69	1040
Cousins, Henry A., New York, N. Y. Inlaid work for decorative purposes	521,206	June 12	807	189	67	1356
Cousins, Jerome S., Williamsville, Mich. Well-pipe puller	522,316	July 3	242	63	68	48
Covel, Frank B., assignor to Dwight Slate Machine Company, Hartford, Conn. Centering-tool	523,882	July 31	2931	741 742	68	618
Covel, Milo, Chicago, Ill. Device for straightening saws	523,883	July 31	2933	742 743	68	618
Covel, Milo, Chicago, Ill. Saw-dressing machine	513,360	Jan. 23	2704	657	66	610
Covel, Milo, Chicago, Ill. Saw-sharpening machine	523,883	July 31	2933	742 743	68	618
Covell, Edward T., New Bedford, Mass. Fastening for horseshoes	513,863	Jan. 23	2704	657	66	610
Covell, Harry N. (See Miller and Covell.)	530,615	Dec. 11	964	236	69	1407
Coverdill, Edward R., Clifton Heights, Pa. Waste or rag picker	530,750	Dec. 11	1193	230	69	1447
Covert, D'Estaing S. (See Burton and Covert.)	524,667	Aug. 14	1197	293	68	898
Covert, James C., West Troy, N. Y. Snap-hook	512,366	Jan. 9	1051	256	66	210
Cowan, Alexander H., San Francisco, Cal. Lamp heater attachment	511,755	Jan. 2	23	6	66	8
Cowan, David R., Molino, Ill. Bending-machine	522,047	June 26	2313	555	67	1669
Cowan, Emma E. (See Chunn, Charles H., assignor.)	522,453	July 3	483	123	68	96
Cowan, William B., Guelph, Canada. Triturating and emulsifying machine	528,323	Oct. 30	2791	673	69	573
Cowdrey, Charles F., Fitchburg, Mass. Wheel-rim and making same	527,668	Oct. 16	1629	392	69	330
Cowdrey, Harriet C., New York, N. Y. Heater	515,195	Feb. 20	1995	497	66	1259
Cowdrey, Nathaniel W., Pepperell, Mass. Attachment for doors	523,884	July 31	2985	743	68	618
Cowdick, Jesse C., Ogdensburg, N. J. Railway-rail tie	512,160	Jan. 2	726	.....	66	138
Cowell, Edward L. E., assignor of one-half to M. T. Karnes, Buffalo, N. Y. Chart	523,464	July 24	2239	562	68	464
Cowles, Burton S., Meriden, Conn. Door-bell	531,163	Dec. 18	1908	455	69	1593
Cowper-Coles, Sherard O., assignor to London Metallurgical Company, Limited, London, England. Articles coated with metallic alloys	521,783	June 26	1842	439	67	1581
Cox, Albert W., Hastings, Nebr. Checkrein	525,646	Sept. 4	536	131	68	1251
Cox, Allen L., Wise, Ala. Baling-press	518,542	Apr. 17	1916	473	67	381
Cox Brass Manufacturing Company. (See Bailey, Henry E., assignor.)						
Cox, Cary S., Spottiswood, assignor to himself, and H. A. Blodgett, Bakersfield, Cal. Condenser						
Cox, Charles T., assignor of two-thirds to M. J. Moon and W. T. Bowers, Liberty, Ind. Disinfecting apparatus						
Cox, Harry B., Hartford, Conn. Thermo-electric generator						

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Cox, Harry B., Hartford, Conn. Transmitting sound	520,106	May 22	2034	{ 496 497 }	67	960
Cox, Harry B., Hartford, Conn. Radiating and supply-system for thermo-electric generators	528,924	Nov. 13	752	176	69	804
Cox, Harry B., Hartford, Conn. Sectional thermo-electric generator	529,710	Nov. 27	2115	507	69	1081
Cox, Harry B., Hartford, Conn. Thermo-electric generator	529,711	Nov. 27	2117	508	69	1081
Cox, Harry B., Hartford, Conn. Apparatus for casting	531,362	Dec. 25	2273	542	69	1075
Cox, Harry M., assignor to himself and A. M. Templin, Palmer, Nebr. Corn-harvester	531,512	Dec. 25	2536	607	69	1726
Cox, J. Otis, <i>et al.</i> (See Brooks, Stephen H., assignor.)						
Cox, James M., assignor of one-half to B. Cohen, Buffalo, N. Y. Hose-coupling	520,952	June 5	365	89	67	1264
Cox, Joseph L. (See Dickinson, James W., assignor.)						
Cox, Joseph L., assignor to Duplex Printing Press Company, Battle Creek, Mich. Flat-bed perfecting-press	525,136	Aug. 28	2029	{ 496 497 }	68	1076
Cox, Joseph L., assignor to Duplex Printing Press Company, Battle Creek, Mich. Printing-press	525,137	Aug. 28	2032	497	68	1077
Cox, Joseph L., assignor to Duplex Printing Press Company, Battle Creek, Mich. Single-acting sheet-printing press	529,519	Nov. 20	1808	{ 430 431 432 }	69	1014
Cox, Joseph L., assignor to Duplex Printing Press Company, Battle Creek, Mich. Paper-web-feeding device	531,162	Dec. 18	1906	455	69	1592
Cox, Mat, Hale's Point, Tenn. Sawmill-carriage	528,287	Oct. 30	2729	659	69	563
Cox, Paul F., Battle Creek, Mich., assignor to Cox Type Setting Machine Company, Chicago, Ill. Type-setting machine	528,855	Nov. 6	611	145	69	757
Cox, Paul F., Battle Creek, Mich., assignor to Cox Type Setting Machine Company, Chicago, Ill. Type setting machine	528,856	Nov. 6	614	{ 145 146 }	69	758
Cox, Paul F., Battle Creek, Mich., assignor to Cox Type Setting Machine Company, Chicago, Ill. Apparatus for automatically justifying type	528,857	Nov. 6	621	{ 146 147 148 }	69	759
Cox, Peter L., Boston, Mass. Sewing-machine	530,471	Dec. 4	679	{ 169 170 }	69	1340
Cox, Philip D., Jasper, Fla. Combined telegraph key and sounder	526,965	Oct. 2	486	119	69	91
Cox, Reuben, <i>et al.</i> (See Webb and Jacobs, assignors.)						
Cox Type Setting Machine Company. (See Cox, Paul F., assignor.)						
Cox, William W., Greene, Ala. Cultivator	524,935	Aug. 21	1655	405	68	992
Cox, Willis B. (See Hime and Cox.)						
Coxe, Charles B., assignor to E. B. Esterbrook, Brooklyn, N. Y. Manufacture of bricks	521,535	June 19	1407	325	67	1484
Coxe, Eckley B. (See Richards, Francis H., assignor.)						
Coxe, Eckley B., Drifton, Pa. Traveling grate	515,656	Feb. 27	2762	688	66	1419
Coxe, Eckley B., Drifton, Pa. Traveling grate	515,657	Feb. 27	2766	689	66	1419
Coxe, Eckley B., Drifton, Pa. Furnace	517,644	Apr. 3	378	91	67	73
Coxe, Eckley B., Drifton, Pa. Furnace	517,645	Apr. 3	381	91	67	74
Coxe, Eckley B., Drifton, Pa. Furnace	518,578	Apr. 17	1978	490	67	392
Coxe, Eckley B., Drifton, Pa. Coal-breaker	527,411	Oct. 16	1207	296	69	252
Coxe, Eckley B., Drifton, Pa. Coal-breaking apparatus	527,412	Oct. 16	1210	296	69	253
Coxe, Eckley B., Drifton, Pa. Traveling-grate furnace	527,593	Oct. 16	1509	367	69	308
Coykendall, Thomas C., Rondout, N. Y. Means for ventilating armatures	523,161	July 17	1706	429	68	353
Coykendall, Thomas C., Rondout, N. Y. System of electrical distribution	525,445	Sept. 4	217	54	68	1191
Coykendall, Thomas C., Rondout, N. Y. System of electrical distribution	525,446	Sept. 4	219	54	68	1192
Coylo, Bernard J., Washington, D. C. System of excavating and refilling	518,394	Apr. 17	1666	{ 411 412 }	67	337
Coyle, Robert. (See Ralya and Coyle.)						
Coyle, Thomas J., <i>et al.</i> (See Dobbins, Douglas, assignor.)						
Coyne, John W., Ridgetown, and J. A. Shannon, Dutton, Canada. Churn	526,561	Sept. 25	2156	515	68	1585
Crabb, Fred S., <i>et al.</i> (See Crabb, George W., assignor.)						
Crabb, George W., assignor to F. S. Crabb and J. S. Lockerby, Sand Lake, Mich. Churn	520,561	May 29	2924	682	67	1121
Crabtree, William N., Globe, Cal. Bandage-machine	527,365	Oct. 9	1130	276	69	224
Craelius, Per A., Smedjebacken, Sweden. Grab for lifting cores formed by tubular rock-drills or broken or detached drill-rods, &c., from bore-holes	529,781	Nov. 27	2230	531	69	1101
Craiger, Henry. (See Zeller and Craiger.)						
Craig, Augustus P., Michigan City, Ind. Vehicle-axle	512,867	Jan. 16	1933	457	66	393
Craig, Franklin P., Kansas City, Mo. Lister-cultivator	518,940	May 1	8	2	67	538
Craig, John B., St. Louis, Mo. Lace-fastener	519,018	May 1	126	31	67	560
Craig, Lee D., San Francisco, Cal. Shoe-lace clamp	528,464	Oct. 30	3038	737	69	617
Craige, William, Paducah, Ky. Paddle-wheel	528,858	Nov. 6	624	147	69	760
Craine, David C. (See Craine, Richard H. and D. C.)						
Craine, Edwin W., Missouri Valley, Iowa. Tule-stopper	518,226	Apr. 17	1369	343	67	283
Craine, Edwin W., Missouri Valley, Iowa. Rein-support	519,665	May 8	1309	312	67	796
Craine, Richard H. and D. C., Rosedale, Kans. Direct-draft bake-oven	517,844	Apr. 10	705	{ 178 179 180 }	67	151
Cramby, Martinson, Bradford, England. Apparatus for cutting patterns for cloth, &c.	527,051	Oct. 9	624	{ 151 152 }	69	132
Cramer, Henry W., assignor of one-half to W. Middendorf, St. Louis, Mo. Combined guide and fish-plate	517,330	Mar. 27	2675	628	66	2004
Cramer, Morgan J., Chest Springs, Pa. Envelope	521,760	June 19	1804	428	67	1556
Crampton, John M., New Haven, Conn. Shade-cord fastener	519,148	May 1	369	88	67	609
Crampton, Richard L., Oak Park, Ill. Holder for memorandum-calendars	529,366	Nov. 20	1517	363	69	963
Crampton, Stewart H., Brooklyn, N. Y. Railway-switch	524,847	Aug. 21	1510	369	68	967
Crandall, E. J. (See Bond, Frederick W., assignor.)						
Crandall, Henry F., assignor to Milwaukee Harvester Company, Milwaukee, Wis. Grain-binder	524,312	Aug. 14	538	{ 141 142 143 }	68	787
Crandall, Lucien S., Parish, assignor to W. A. Sweet, Syracuse, N. Y. Type-writing machine	522,653	July 10	818	{ 204 205 }	68	174
Crandall, Nathan W. (See Russell and Crandall.)						
Crandall, Nathan W., Meriden, and E. A. Russell, Wallingford, Conn. Shade-support	527,946	Oct. 23	2122	509	69	438
Crandall, Nathan W., Meriden, and E. A. Russell, Wallingford, Conn. Shade-holder	528,288	Oct. 30	2731	659	69	563
Crandall, Nathan W., Meriden, and E. A. Russell, assignors to Housatonic Brass Company, Wallingford, Conn. Device to prevent fraudulent filling of bottles	522,405	July 3	400	102	68	79
Crandall, Nathan W., and E. A. Russell, assignors to Housatonic Manufacturing Company, Wallingford, Conn. Shade-holder for incandescent electric lamps	530,751	Dec. 11	1195	291	69	1447
Crandall, William E., and M. Smith, New York, N. Y. Swing	521,335	June 12	1046	246	67	1401
Crane Company. (See Doolittle, William W., assignor.)						
Crane Company. (See Hayden, James T., assignor.)						
Crane, Edward M., Oshkosh, Wis. Oscillating device for vehicles	513,765	Jan. 30	3399	838	66	773
Crane Elevator Company. (See Reynolds, George H., assignor.)						
Crane, George A. (See Warner and Crane.)						
Crane, George A., Cleveland, Ohio. Steam-boiler support and wall	527,052	Oct. 9	625	152	69	132

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Crane, Henry W., Milwaukee, Wis. Boring-machine	513,028	Jan. 23	2265	547	66	523
Crane, John M. (See Mahon and Crane.)						
Crane, Joseph A., assignor to Loewer Sole-Rounder Company, Rochester, N. Y. Sole-round- ing machine	516,676	Mar. 20	1573	{ 374 375 }	{ 66	1778
Crane, Theodore W. (See Matthews, Gilbert L., assignor.)						
Crane, William A., Newark, N. J. Parcel-holder	522,196	July 3	16	5	68	6
Crane, William F. D., East Orange, N. J., assignor to Johns-Pratt Company, Hartford, Conn. Suspension-clip for trolley-wires	522,362	July 3	319	£2	68	63
Crane, Thomas, <i>et al.</i> (See Fuchs, Nathan, assignor.)						
Crane, Thomas, Bay City, Mich. Electrolytic diaphragm	512,503	Jan. 9	1302	{ 313 314 }	{ 66	257
Crane, Thomas, Bay City, Mich. Apparatus for purifying water	515,819	Mar. 6	145	35	66	1480
Crane, Thomas, Bay City, Mich. Air-feeding device for furnaces	518,054	Apr. 10	1068	270	67	211
Crane, Thomas, Bay City, Mich. Grate	518,714	Apr. 24	2224	554	67	450
Crane, Thomas, Bay City, Mich. Electrolytic cell	520,357	May 22	2316	{ 561 562 }	{ 67	1010
Crane, Thomas, Bay City, Mich. Drainage-bin and chute	522,406	July 3	402	{ 102 103 }	{ 68	80
Crane, Thomas, Bay City, Mich. Purifying water	524,887	Aug. 21	1568	383	68	977
Crane, Thomas, Bay City, Mich. Apparatus for aerating and carbonating water	524,888	Aug. 21	1569	383	68	977
Crane, Thomas, Bay City, Mich. Chamfering-machine	524,889	Aug. 21	1570	384	68	977
Crane, Thomas, Bay City, Mich. Evaporating-pan	525,486	Sept. 4	280	69.70	68	1203
Crane, Thomas, Bay City, Mich. Salt-evaporator	525,757	Sept. 11	756	175	68	1302
Crane, Thomas, Bay City, Mich. Drier	525,758	Sept. 11	758	176	68	1302
Crane, Thomas, Bay City, Mich. Evaporating apparatus	528,859	Nov. 6	625	{ 147 148 }	{ 69	760
Cranford, George C., <i>et al.</i> (See Rothchild, Joseph, assignor.)						
Cranford, Robert L., <i>et al.</i> (See Rothchild, Joseph, assignor.)						
Cranmer, William C., assignor of one-half to R. C. Matlack, Jr., Philadelphia, Pa. Rail- joint	518,834	Apr. 24	2419	599	67	485
Cranmer, William S., Suisun City, Cal. Chart-hanger	519,467	May 8	959	232	67	734
Crannell, Charles W., Holton, Kans. Toe-weight	513,005	Jan. 16	2157	513	66	433
Crapp, Thomas S., Tallapoosa, Ga. Attachment for stools	514,307	Feb. 6	579	144	66	962
Craven, George H., assignor to J. S. Craven, Philadelphia, Pa. Dyeing-machine	519,323	May 8	704	{ 173 174 }	{ 67	627
Craven, James S. (See Craven, George H., assignor.)						
Craven, Phineas P., Manchester, England. Ring-spinning frame	521,584	June 19	1488	{ 348 349 350 }	{ 67	1499
Cravens, Charles M., <i>et al.</i> (See Nier, William, assignor.)						
Craw, Joseph T., Jersey City, N. J., assignor of one-half to Brown & Bailey, Philadelphia, Pa. Combined cigarette-slide and match-box	528,763	Nov. 6	426	103	69	724
Craw, Joseph T., Jersey City, N. J., assignor of one-half to Brown & Bailey, Philadelphia, Pa. Thermometer	530,928	Dec. 18	1480	350	69	1515
Craw, William. (See Peat, David C., assignor.)						
Crawford, Edwin G., St. Louis, Mo. Shaft-locking mechanism	530,580	Dec. 11	909	{ 222 223 }	{ 69	1397
Crawford, Harvey F. (See Luce, Don C., assignor.)						
Crawford, James G., Boston, Mass., assignor to Crawford Laundry Machinery Company, Portland, Me. Mangle	515,996	Mar. 6	428	98, 99	66	1532
Crawford, James G., Boston, Mass., assignor to Crawford Laundry Machinery Company, Portland, Me. Reversing-gearing for washing-machines	517,646	Apr. 3	384	91, 92	67	74
Crawford, James G., Boston, Mass., assignor to Crawford Laundry Machinery Company, Portland, Me. Washing-machine	522,970	July 17	1369	{ 340 341 }	{ 68	291
Crawford Laundry Machinery Company. (See Crawford, James G., assignor.)						
Crawford, Morgan, Jr., Stockton, Cal. Street-sweeper	512,161	Jan. 2	727	176	66	138
Crawford, Morgan, Jr., assignor of one-half to G. J. Thompson, Stockton, Cal. Tapping- machine	522,654	July 10	820	205	68	174
Crawford, Robert A., Allegheny, Pa. Pilot or guard for cars	521,307	June 12	987	233	67	1369
Crawford, Robert A., Allegheny, assignor of one-half to S. D. Warmcastle, Pittsburg, Pa. Pilot for cars	522,932	July 10	1297	323	68	261
Crawford, Theron C., New Brighton, and L. K. Böhm, New York, N. Y., assignors to Ster- ling Light Company, Trenton, N. J., and New York, N. Y. Making incandescent elements	516,079	Mar. 6	560	.....	66	1557
Crawford, Theron C., New Brighton, and L. K. Böhm, New York, N. Y., assignors to Ster- ling Light Company, Trenton, N. J., and New York, N. Y. Composition for incandescent elements	516,080	Mar. 6	561	.....	66	1557
Crawford, William K., assignor to A. J. Morse & Son, Boston, Mass. Universal nozzle	525,487	Sept. 4	281	70	68	1204
Crawford, William T., Tampa, Fla. Automatic railway-gate	529,637	Nov. 20	1997	{ 477 478 479 }	{ 69	1049
Creamer, Albert J., Washington Court-House, Ohio. Blackboard-eraser	521,258	June 12	900	{ 212 213 }	{ 67	1373
Creamer, Frank D. (See Yerby, Ross B., assignor.)						
Creamer, Lewis H., Mechanicsburg, Ohio. Harness	519,149	May 1	370	88	67	609
Crean, Thomas F., Brooklyn, N. Y. Refrigerator	514,914	Feb. 20	1563	392	66	1180
Crébéssac, Léonce, assignor to Société Française des Moteurs Crébéssac, Paris, France. Petroleum, gas, or oil engine	530,161	Dec. 4	144	38	69	1242
Creelius, Louis J. (See Grayson and Creelius.)						
Creelius, Louis J., assignor of one-half to C. E. Pearce, St. Louis, Mo. Machine for mak- ing wheels	511,876	Jan. 2	259	59	66	51
Creelius, Louis J., assignor to A. Warren, St. Louis, Mo. Track-drill	514,544	Feb. 13	946	{ 238 239 }	{ 66	1049
Creelius, Louis J., assignor of one-half to W. Grayson, St. Louis, Mo. Clamping device for bicycles	519,667	May 8	1310	313	67	797
Cree, Dugal, St. Paul, Minn. Removable box-cover	514,144	Feb. 6	268	66	66	904
Creed, Alex G. P., Sydney, New South Wales. Drill bit and reamer for earth-boring	513,987	Feb. 6	23	6	66	859
Crégut, Emile. (See Tourasse, Paul, assignor.)						
Crehore, Albert C., Ithaca, N. Y. Electric-railway system	523,396	July 24	2109	{ 530 531 }	{ 68	443
Creighton, William G., Chicago, Ill. Conduit system for electric railways	525,945	Sept. 11	1082	{ 246 247 }	{ 68	1360
Crellin, Thomas, Liverpool, England. Corkscrew	515,658	Feb. 27	2768	689	66	1420
Cremer, Michael D. (See Robert, Charles A., assignor.)						
Crepas, Thomas M., assignor to himself and H. Hunter, Clare, Mich. Machine for teach- ing telegraphy	522,454	July 3	485	123	68	96

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Crescent Fire Arms Company. (See Cilley, George W., assignor.)						
Cressey, John T. (See Beury and Cressey.)						
Cressler, Will T. (See Leavenworth, Seth H., assignor.)						
Cretcher, Paul C., and J. R. Miller, Huntsville, Ohio. Fence-post	521,849	June 26	1940	465	67	1509
Creter, Joseph H., Newcomerstown, Ohio. Grain-separator	520,723	May 29	3106	752	67	1173
Cretors, Charles, Chicago, Ill. Roasting apparatus for peanuts, &c	516,919	Mar. 20	1971	463	66	1851
Creveling, John L., Auburn, N. Y. Conduit railway-trolley	522,655	July 10	821	205	68	174
Cribbs, John R., Verona, Pa. Nut-lock	522,971	July 17	1371	341	68	291
Cribbs, John R., Verona, Pa. Brake for railway-cars	528,860	Nov. 6	686	148	69	760
Criggal, John E., assignor to Davis Electrical Works, Springfield, Mass. Electric incandescent lamp	518,179	Apr. 10	1269	319	67	247
Criggal, John E., assignor to Davis Electrical Works, Springfield, Mass. Incandescent electric lamp	523,305	July 17	1955	492	68	398
Crill, John T., et al. (See Moon, Hermon, assignor.)						
Crim, Jackson A., Plainville, Ill. Churn	528,079	Oct. 23	2364	570	69	481
Criqui, Charles A., St. Joseph, Mo. Filter	511,756	Jan. 2	24	7	66	8
Criqui, Charles A., St. Joseph, Mo. Germ-proof water-filter	511,757	Jan. 2	26	7	66	8
Crisp, Isaac A., and J. A. Stevenson, Halsey, Oreg. Band-cutter and feeder	528,661	Nov. 6	627	149	69	761
Crisp, James E., Handley, Tex. Wire-stretcher	528,151	Oct. 30	2490	603	69	519
Crisp, Joseph E., Somerville, Mass., assignor to Copeland Rapid Laster Manufacturing Company, Portland, Me. Lasting-machine	517,947	Apr. 10	866	218 219 524 525 526	67	180
Crisp, Joseph E., Somerville, and E. F. Grandy, Everett, Mass., assignors to Goodyear Shoe Machinery Company, Portland, Me. Lasting-machine	521,975	June 26	2184	524 525 526	67	1646
Crispin, Edward, Chicago, Ill. Ornamental work and making same	529,782	Nov. 27	2230	532	69	1101
Crisson, George A., Tarrytown, N. Y., assignor of one-half to J. N. Dickey, Philadelphia, Pa. Window or curtain fixture	513,307	Jan. 23	2624	636	66	595
Crist, Marvin B. (See Berner, Fredrick, Jr., assignor.)						
Crist, William E., Brooklyn, N. Y. Vibrating-piston engine	521,603	June 19	1519	356	67	1504
Cristadoro, Charles, St. Paul, Minn. Box-blocking machine	519,935	May 1	157	37, 38	67	566
Cristadoro, Charles, St. Paul, Minn. Multiple boring-machine	529,712	Nov. 27	2118	508	69	1081
Cristand, Johann F., Aix-la-Chapelle, Germany. Spark-catcher	519,886	May 15	1672	407	67	878
Criswell, Joel T., Collamer, assignor of one-half to A. D. Harlan, Coatesville, Pa. Mitering-machine	511,935	Jan. 2	355	82, 83	66	67
Crittenden, George L., Ithaca, N. Y. Attachment for rolls of paper to type-writing machines	530,929	Dec. 18	1480	350	69	1516
Crittenden, Mason H., and F. V. Emery, Minneapolis, Minn. Sheet-metal stud	518,645	Apr. 24	2094	521	67	427
Crittenden, Thomas T. (See Ackerman, Albert A., assignor.)						
Crittenden, William B., et al. (See Wanner, Martin, assignor.)						
Crocker, John, assignor of one-half to F. Leach, New York, N. Y. Packing or holding case	521,102	June 5	626	147	67	1310
Crocker-Wheeler Electric Company. (See Dunn, Gano S., assignor.)						
Crockett, Samuel D., Seattle, Wash. Thrashing-machine	513,089	Jan. 23	2266	547	66	523
Crockett, William E., Sulphur Bluff, Tex. Convertible corn sheller and grater	515,074	Feb. 20	1804	455	66	1224
Crofford, Warren K. (See Bardsley and Crofford.)						
Crofford, Warren K., New York, N. Y., and W. Bardsley, Kearney, N. J. Door mechanism for elevator-shafts	516,699	Mar. 20	1609	383	66	1784
Croft, Abraham L., Chambersburg, Pa. Car-coupling	515,933	Mar. 6	313	75	66	1512
Crohn, Marcus, New York, N. Y. Safety device for scarf-pins	521,103	June 5	627	148	67	1310
Croissant, Martin, deceased, Albany, N. Y.; P. Croissant, executrix. Trolley-support for ladders	526,438	Sept. 25	1973	470 471	68	1552
Croissant, Philoppina, executrix. (See Croissant, Martin.)						
Crolley, Sherman, assignor to Snowdon Manufacturing Company, Brownsville, Pa. Shaft-coupling	513,609	Jan. 30	3141	771	66	726
Crom, Louis M. (See Clark and Crom.)						
Cromer, Hiram, Muscatine, Iowa. Rotary harrow	518,520	Apr. 17	1880	466	67	375
Cromer, Thomas W. (See Murray and Cromer.)						
Cromie, John, assignor to M. A. Furbush & Son Machine Company, Camden, N. J. Condenser or finisher carding-machine	523,832	July 31	2890	719	68	601
Crompton Loom Works (See Wyman and Clark, assignors.)						
Crompton Loom Works et al. (See Wyman and Poole, assignors.)						
Crompton, Samuel S., assignor to Moline Scale Company, Moline, Ill. Scale	521,230	June 12	851	109	67	1364
Crompton, William E., Park City, Utah Ter. Carpenter's plane	518,521	Apr. 17	1882	466	67	376
Cromwell, George W. (See White and Forestell, assignors.)						
Cron, Bernhard, and W. von Münchhausen, New York, N. Y. Car-fender	520,354	May 22	2479	601	67	1041
Cron, Carl. (See Wendling, Theobald, assignor.)						
Cronan, James W., St. Louis, Mo. Computing weighing-scale	524,164	Aug. 7	339	80	68	723
Cronenwett, Frederick, Jr., Detroit, Mich. Pocket cigar-case	522,881	July 10	1195	298	68	242
Cronin, John M., Cambridge, assignor to J. L. Wesson, Boston, Mass. Electric switch	530,472	Dec. 4	680	170	69	1340
Cronk, George, et al. (See Buckbee, Charles E., assignor.)						
Cronkhite, Augustus, Chicago, Ill. Gate	517,331	Mar. 27	2676	628	66	2004
Cronkhite, Byron E. (See Austin, Lorey T., assignor.)						
Crook, Charles, Brooklyn, assignor to E. Baldwin, New York, N. Y. Fare-register	516,081	Mar. 6	563	131 132	66	1557
Crook, Fredrick, Christ Church, assignor of one-half to G. T. Booth, Sydenham, New Zealand. Corn-husker	512,367	Jan. 9	1052	257	66	210
Crooker, Alfred M., and R. Weinhold, assignors of one-half to J. W. Martin, Memphis, Tenn. Antifriction device for axles	526,298	Sept. 18	1697	400	68	1487
Crosby, Darwin E. (See Mahon, Terrence P., assignor.)						
Crosby, Frank P., assignor of two-thirds to F. J. Lamberson and F. H. Webster, Chicago, Ill. Shaft-bearing for velocipedes	511,877	Jan. 2	260	59	66	51
Crosby, George S., Buffalo, N. Y. Vehicle-wheel	515,518	Feb. 27	2548	631	66	1376
Crosby, James H., Somerville, Mass. Plug-check for marine or other boilers	530,473	Dec. 4	683	170 171	69	1340
Crosby, James H., Somerville, Mass. Plug-check for marine or other boilers	530,474	Dec. 4	684	171	69	1340
Crosby, Mary A., Durand, Wis. Dish-cleaner	527,322	Oct. 9	1060	256	69	211
Crosby, Robert H. (See Krause and Crosby.)						
Crosby Steam Gage and Valve Company. (See Bosworth, Charles B., assignor.)						
Crosby Steam Gage and Valve Company. (See Gassett, Oscar, assignor.)						
Crosby Steam Gage and Valve Company. (See Lane, Frederick, assignor.)						
Crosby Steam Gage and Valve Company. (See Ludlow, Charles G., assignor.)						
Crosby Steam Gage and Valve Company. (See Meady, Albert C., assignor.)						
Crosby Steam Gage and Valve Company. (See Spiller, Harry A., assignor.)						
Crosby Steam Gage and Valve Company. (See Wolfe, Frank L., assignor.)						
Croshaw, Calvin A., Chicago, Ill. Thrill-coupling	519,697	May 15	1363	329	67	820

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Croskey, John H., and J. Locke, Pittsburg, Pa. Glass for skylights, &c.....	524,936	Aug. 21	1655	405	68	992
Croskey, John H., and J. Locke, Pittsburg, Pa. Glass-press.....	528,080	Oct. 23	2365	571	69	481
Croskey, John H., and J. Locke, Pittsburg, Pa. Manufacture of hollow glass articles.....	528,081	Oct. 23	2367	571	69	482
Croskey, John H., and J. Locke, Pittsburg, Pa. Insulator for electric conductors.....	530,399	Dec. 4	567	141	69	1319
Croskey, John H., and J. Locke, Pittsburg, Pa. Method and apparatus for pressing glass-ware.....	530,825	Dec. 11	1309	316	69	1469
Cross, Ann, administratrix. (See Cross, Christopher G.)						
Cross, Bradford, Moline, Ill. Oil-burner attachment.....	525,261	Aug. 28	2826	542	68	1111
Cross, Charles F., and E. J. Bevan, London, England. Manufacture of cellulose acetate.....	530,826	Dec. 11	1311		69	1470
Cross, Charles F., E. J. Bevan, and C. Beadle, London, England, assignors to H. G. Nichols, trustee, Boston, Mass. Plastic compound of cellulose.....	520,770	June 5	17		67	1199
Cross, Christopher G., deceased, Erie, Ill.; A. Cross, administratrix. Aerial locomotive.....	516,265	Mar. 13	870	203	66	1632
Cross, Frederick E., Waterbury, Conn. Automatic feed for band sawing-machines.....	516,677	Mar. 20	1575	375	66	1778
Cross, George W., Pittston, Pa. Screen.....	513,890	Jan. 30	3596	886	66	812
Cross, George W., Pittston, Pa. Screen.....	523,515	July 24	2332	557	68	481
Cross, George W., Pittston, Pa. Revolving coal-screen.....	524,577	Aug. 14	1047	258	68	870
Cross, George W., Pittston, Pa. Coal-screen.....	526,562	Sept. 25	2158	516	68	1585
Cross, George W., Pittston, Pa. Coal-screen.....	528,2-9	Oct. 30	2732	659	69	563
Cross, George W., Pittston, Pa. Screen.....	529,605	Nov. 20	1949	463	69	1041
Cross, Joel W., Chattanooga, Tenn., assignor of one-third to W. R. Raggles, Ipswich, S. D. Bicycle-lock.....	512,868	Jan. 16	1934	458	66	393
Cross, John A., New York, N. Y. Dynamometer.....	517,439	Apr. 3	29	7	67	8
Crosse, Willey T. (See Miller and Crosse.)						
Crossley, Arthur W., Boston, Mass. Child's crib or bed.....	518,180	Apr. 10	1269	320	67	247
Crossley, Atkinson, Cwmavon, England. Apparatus for producing oxida.....	531,459	Dec. 25	2450	583	69	1709
Crossley, Gabriel W., J. W. Stout, and W. Rigdon, Humansville, Mo. Seeding-machine.....	518,835	Apr. 24	2421	600	67	425
Crossley, Joseph. (See Oddy, Crossley, and Smith.)						
Crosta, Lorenzo W., West Bridgford, assignor to Patent Gully Company, Limited, Nottingham, England. Double-trap surface-water gully.....	520,036	May 22	1915	469	67	937
Crosswell, Samuel P., West Medford, Mass. Set bowl or washbasin.....	514,214	Feb. 6	417	101	66	930
Cronan, Henry M. L., Paris, France. Gas or petroleum motor.....	515,116	Feb. 20	1868	469	66	1235
Crouch, Frank J., Portland, assignor of two-thirds to C. P. and W. L. Houston, Junction City, Oreg. Dynamo-electric machine.....	516,298	Mar. 13	914	215	66	1640
Crouch, George, New York, N. Y. Trunk-caster.....	518,094	Apr. 10	1132	265	67	223
Crouch, George, New York, N. Y. Handle for trunks.....	518,095	Apr. 10	1133	265	67	223
Crouch, George, New York, N. Y. Trunk.....	525,488	Sept. 4	283	70	68	1204
Crouch, James M., Buckeye City, Ohio. Quarrying-tool.....	512,605	Jan. 9	1446	349	66	284
Crouch, Jehew N., High Point, N. C. Combined tongs and shovel.....	513,891	Jan. 30	3597	886	66	813
Crouse, Albert B., Passaic, N. J., assignor of one-half to C. J. Kintner, New York, N. Y. Bowling-alley.....	513,988	Feb. 6	26	6	66	850
Crouse, Albert B., and C. A. Rutledge, Passaic, N. J. Trolley-wire hanger.....	519,446	May 8	916	221	67	727
Crouse, Henry W., trustee. (See Carlyle, George, assignor.)						
Crow, James R., and J. H. Mulkey, Cleveland, Tenn. Railway-switch.....	526,993	Oct. * 2	526	129	69	99
Crowder, George W., Goldthwaite, Tex. Wire-coiling machine.....	527,144	Oct. 9	766	137	69	157
Crowdus, Walter A., Chicago, Ill. Electric motor.....	511,758	Jan. 2	28	7	66	8
Crowdus, Walter A., assignor to Turney Electric Manufacturing Company, Chicago, Ill. Electric motor for dental engines.....	521,138	June 5	634	160	67	1320
Crowe, John T. (See Even and Crowe.)						
Crowell, Charles F., et al., trustees. (See Monks and Severy, assignors.)						
Crowell Clutch and Pulley Company. (See Jones, Edward L., assignor.)						
Crowell, Henry M., Maplewood, N. J., assignor to Essex Watch Case Company, of New Jersey. Watch lid or back machine.....	522,317	July 3	243	64, 65	68	49
Crowell, J. L., et al. (See Cook, Thomas C., assignor.)						
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Printing-machine.....	512,606	Jan. 9	1448	349	66	285
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Package-wrapping machine.....	516,186	Mar. 13	734	172	66	1605
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Wrapping-machine.....	517,440	Apr. 3	31	7, 8, 9	67	8
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Newspaper-wrapping machine.....	517,441	Apr. 3	40	9, 10	67	9
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Newspaper-wrapping machine.....	517,442	Apr. 3	44	10, 11	67	10
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Method of and machine for wrapping newspapers.....	522,197	July 3	17	5, 6	68	6
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Newspaper-wrapping machine.....	522,198	July 3	23	7	68	7
Crowell, Luther C., Brooklyn, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Machine for wrapping newspapers, &c.....	527,521	Oct. 16	1391	338	69	287
Crowell, Sommers, assignor of one-half to C. S. and C. J. Wass, Philadelphia, Pa. Car-coupling.....	515,750	Mar. 6	27	8	66	1460
Crowley, John M., Augusta, Ga. Dough-kneader.....	513,175	Jan. 23	2408	582	66	553
Crowley, Patrick, et al. (See Pennington, Steve, assignor.)						
Crown Cork and Seal Company. (See Painter, William, assignor.)						
Crown Syndicate. (See Farmer, Luther C., assignor.)						
Crowther, Charles, Manchester, England. Hook.....	527,832	Oct. 23	1900	456	69	397
Crowther, Ernest and W. H., Pndsey, England. Scribbler or carding-engine.....	521,703	June 19	1684	395	67	1536
Crowther, William H. (See Crowther, Ernest and W. H.)						
Croze, Joseph. (See Bertrand, Joseph, assignor.)						
Croze, Joseph, et al. (See Marleau, Evangeliste, assignor.)						
Crozier, David J., Brooklyn, N. Y. Steam-jet blower.....	523,198	July 17	1780	447	68	366
Crozier, Hugh V., Morrilton, Ark. Folding step-ladder.....	513,485	Jan. 30	2121	719	66	685
Crozier, Thomas W., Roanoke, Va. Button.....	519,668	May 8	1310	313	67	797
Cruger, Ernest L., London, Wis. Bribble-bit.....	529,022	Nov. 13	909	215	69	831
Crumo, William E., Dayton, Ohio. Oyster-bucket.....	515,820	Mar. 6	147	36	66	1180
Crump, Ernest R. (See Hanson, John T., assignor.)						
Crunkleton, John R., Birmingham, Ala. Bicycle-support.....	518,022	Apr. 10	1010	254	67	203
Cruser, Van Dyke, Flatbush, N. Y. Bicycle driving-gear.....	516,082	Mar. 6	565	132	66	1558
Cruser, Van Dyke, Flatbush, N. Y. Trolley-wheel.....	519,837	May 15	1586	388	67	862

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Cruser, Van Dyke, Brooklyn, N. Y. Bicycle-gearing.....	525,694	Sept. 11	648	151	68	1283
Crutsinger, Charles W., St. Louis, Mo. Fruit clipper and gatherer.....	516,359	Mar. 13	1080	257	66	1669
Cuddy, Alfred A., Carlisle, Pa. Combination kitchen-tool.....	512,162	Jan. 2	728	176	66	139
Cudell, Frank E., Cleveland, Ohio. Grinding and polishing wheel.....	527,196	Oct. 9	814	205	69	172
Cuenot, Paul A., Canton, Ohio. Building-block.....	520,136	May 23	2110	514	67	971
Cuenot, Paul A., Canton, Ohio. Riveting-machine.....	530,162	Dec. 4	146	38	69	1242
Culbertson, Mathew, and J. J. Burke, Wilber, Nebr.; said Culbertson assignor to said Burke. Plow attachment.....	528,324	Oct. 30	2792	673	69	573
Culbreath, Walter W., assignor of one-fourth to J. R. Fore, Sellers, S. C. Car-coupling.....	523,263	July 17	1893	477	68	388
Culhane, Daniel. (See Dayton, William A., assignor.)						
Culnan, William J., Brule, Wis. Sectional chimney.....	516,966	Mar. 20	2046	484	66	1867
Culp, Thomas S. (See Steen, James H., assignor.)						
Culver, Austin B., Westfield, N. Y. Register for baskets, &c.....	522,455	July 3	486	123	68	97
Culver, Frank S., Eau Claire, Wis. Electrical transformer.....	528,925	Nov. 13	753	176	69	804
Culver, Willard B., Scranton, Pa. Steam-separator.....	523,929	July 31	3059	764	68	632
Cummer, George A. (See Williams and Cummer.)						
Cummer, Herbert H., Cadillac, Mich. Folding crate.....	515,196	Feb. 20	1996	497	66	1200
Cummer, Robert J. (See Williams and Cummer, assignors.)						
Cummings, James, Buffalo, N. Y. Machine for lengthening boiler-flues.....	526,688	Oct. 2	26	7	69	8
Cummings, Adelbert W., Dunkirk, N. Y. Machine for turning over tips of stand-up collars.....	530,091	Dec. 4	26	8	69	1219
Cummings & Engelman Conduit Company. (See Cummings, James F., assignor.)						
Cummings, Henry H., Malden, Mass. Rivet-setting machine.....	513,634	Jan. 30	3183	{ 781 782 }	{ 66 66 }	733
Cummings, Henry H., Malden, Mass. Speed-varying mechanism.....	517,443	Apr. 3	51	11	67	12
Cummings, Henry H., Malden, Mass. Speed-changing and reversing mechanism.....	529,713	Nov. 27	2120	{ 508 509 }	{ 69 69 }	1082
Cummings, Henry H., Malden, Mass. Speed-changing and reversing mechanism.....	529,714	Nov. 27	2122	509	69	1082
Cummings, Henry H., Malden, Mass. Speed-changing, reversing, and stopping mechanism.....	529,715	Nov. 27	2124	509	69	1083
Cummings, James F., Detroit, Mich., assignor of one-half to E. M. Engelman, Milwaukee, Wis. Electric-railway supply system.....	516,565	Mar. 13	1377	{ 327 328 }	{ 66 66 }	1725
Cummings, James F., Detroit, Mich., assignor of one-half to E. M. Engelman, Milwaukee, Wis. Electric-railway supply system.....	524,976	Aug. 21	1716	420	68	1003
Cummings, James F., Detroit, Mich., assignor of one-half to E. M. Engelman, Milwaukee, Wis. Underground conduit for electrical conductors.....	524,977	Aug. 21	1718	421	68	1004
Cummings, James F., Detroit, Mich., assignor of one-half to E. M. Engelman, Milwaukee, Wis. Underground conduit.....	528,291	Oct. 30	2734	660	69	564
Cummings, James F., assignor to Cummings & Engelman Conduit Company, Detroit, Mich. Apparatus for manufacturing conduit-sections.....	528,290	Oct. 30	2733	660	69	563
Cummings, Joseph. (See Cummings, Thomas and J.)						
Cummings, Michael W., and T. F. Jordan, Olyphant, Pa. Adjustable locking cover for books.....	522,152	June 26	2492	597	67	1703
Cummings, Orie P. (See Lindstrom and Cummings.)						
Cummings, Samuel B., Pittsburg, and D. W. Field, Philadelphia, Pa. Filter.....	522,407	July 3	403	103	68	80
Cummings, Thomas, Hartcraft, Tenn., and J. Cummings, Brookside, Ala. Coke-oven.....	523,397	July 24	2113	531	68	443
Cummings, William H., Utica, N. Y. Cloth-holder.....	527,109	Oct. 9	706	173	69	147
Cummings, Willis, Bridgeport, Conn. Token advertising device.....	523,269	July 17	1899	478	68	388
Cummings, Woodson R., assignor of one-third to W. K. Via, Critz, Va. Self-waiting table.....	524,056	Aug. 7	142	32	68	688
Cummins, William G., and E. A. Munro, McMinnville, Tenn. Trimming attachment for sewing-machines.....	529,783	Nov. 27	2232	532	69	1101
Cummock, Robert L., Henderson, Ky. Automatic fire-extinguisher.....	522,656	July 10	822	205	68	174
Cundy, Thomas H., et al. (See Vegiard, James T., assignor.)						
Cunningham, Edgar W., Jersey City, N. J. Glass structure.....	524,937	Aug. 21	1656	405	68	992
Cunningham, Frank R., and G. A. Hitchcock, Ware, Mass. Toy or puzzle.....	527,522	Oct. 16	1396	339	69	287
Cunningham, Newton, Sutton, V. Va. Horse-collar.....	522,685	July 10	872	215	68	184
Cunningham, William T. (See Sparmaker, Frank L., assignor.)						
Cupers, Nicolas, Weert, Netherlands. Apparatus for spinning fibrous materials.....	511,878	Jan. 2	262	60	66	52
Curf, Jacob, et al. (See Keane, William M., assignor.)						
Curf, William T. W., Los Angeles, Cal. Sliding-door lock.....	516,592	Mar. 13	1417	336	66	1732
Curley, Thomas, Waltham, Mass. Door-check.....	520,637	May 29	2941	711	67	1143
Curley, Thomas, Wilmington, Del., assignor of one-half to J. McIlhenny, Philadelphia, Pa. Gas apparatus.....	518,181	Apr. 10	1271	320	67	247
Curlin, Seth, assignor to J. E. Beck, Union City, Tenn. Inflatable decoy.....	512,810	Jan. 16	1826	433	66	372
Curran, Charles E. (See Kleihauer, James, Jr., assignor.)						
Curran, Daniel, Indianapolis, Ind. Candle-extinguisher.....	513,575	Feb. 27	2638	655	66	1394
Currey, Caleb M., Bay City, Mich. Device for overcoming dead-centers.....	517,264	Mar. 27	2568	602	66	1983
Currey, Charles F. (See Johnson, Hall, Oakley, and Currey.)						
Currier, Edward. (See Barré and Currier.)						
Currier, Edwin S., Peninsula, Ohio. Rock-drill.....	527,669	Oct. 16	1630	392	69	331
Curry, Alfred A., Bridgeport, Conn. Stop and chamfer plane.....	515,659	Feb. 27	2769	689	66	1420
Curry, James H., assignor of eighty-three one-hundred-and-twenty-eighths to F. B. Tomb, Wilkinsburg, S. J. Graham, A. H. Childs, Pittsburg, Pa., and R. A. Gillispie. Automatic safety-joint for electric wires.....	521,908	June 26	2053	494	67	1623
Curry, John W., Cairo, Ill. Rotatable electric contactor.....	520,898	Nov. 27	2430	584	69	1139
Curry, Samuel J., Chester, Pa. Furnace.....	515,197	Feb. 20	1997	498	66	1260
Curry, William F., assignor of one-half to M. B. Lamey, Nevada, Mo. Dough rolling and cutting machine.....	516,299	Mar. 13	917	{ 215 216 }	{ 66 66 }	1640
Curtice, John F. (See Sweet, Warren, assignor.)						
Curtis, Albert, et al. (See Richardson, Willie A., assignor.)						
Curtis, Albert B., Worcester, Mass. Velocipede-treadle.....	512,869	Jan. 16	1935	458	66	393
Curtis, Albert B., Worcester, Mass. Velocipede-treadle.....	512,870	Jan. 16	1936	458	66	393
Curtis, Albert B., Worcester, Mass. Velocipede-treadle.....	512,871	Jan. 16	1937	458	66	394
Curtis, Charles, Newton, Mass., and N. M. Jones, Bangor, Me. Blow-off pipe for pulp-digesters.....	513,892	Jan. 30	3598	886	66	813
Curtis & Curtis. (See Riley, James H., assignor.)						
Curtis, George A., Malden, assignor to C. F. Baker, Boston, Mass. Heel-nail.....	515,952	Mar. 6	343	81	66	1517
Curtis, George E., Philadelphia, Pa. Bicycle-saddle.....	512,098	Jan. 2	616	148	66	118
Curtis, George D., assignor, by mesne assignments, to W. S. Evans, Denver, Colo. Ventilated flushing-closet.....	525,759	Sept. 11	759	176	68	1302
Curtis, George T., et al. (See Shorey, Reuben A. and G. E., assignors.)						
Curtis, John D., Worcester, Mass. Machine for making wire fencing.....	514,671	Feb. 13	1166	290	66	1090
Curtis, John D., Worcester, Mass. Wire fencing.....	514,672	Feb. 13	1168	291	66	1091
Curtis, Simeon B., Springfield, Ill. Mechanical movement.....	530,638	Dec. 11	1012	247	69	1415

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Curtis, Will E., Cincinnati, Ohio. Folding-machine	531,513	Dec. 25	2537	{ 607 608 }	{ 69 66 }	1726
Curtis, William G., and J. D. Isaacs, San Francisco, Cal. Coal-handling bucket	515,117	Feb. 20	1870	469	66	1236
Curtis, William G., and J. D. Isaacs San Francisco, Cal. Timber-preserving apparatus ..	516,730	Mar. 20	1669	395	66	1794
Curtiss, Willard, assignor of one-half to W. T. and W. H. Powers, Grand Rapids, Mich. Car-brake	513,672	Jan. 30	3250	798	66	745
Curwen, Samuel H., Salem, Mass. Electric releasing device for doors	518,877	Apr. 24	2485	{ 616 617 }	{ 67 67 }	498
Cusac, Charles, <i>et al.</i> (See Kennedy, Frank M., assignor.)						
Cushing, Alfred D., Wheeling, W. Va. Self-feeding magazine-hammer	516,593	Mar. 13	1419	336	66	1732
Cushing, Emery B., Laconia, N. H. Railway-car seat	512,539	Jan. 9	1349	325	66	266
Cushing, Emery B., Laconia, N. H. Dental chair	526,071	Sept. 18	1303	302	68	1413
Cushing, Richmond H., <i>et al.</i> (See Fougère, Angus, assignor.)						
Custodis, Alphons, Dusseldorf, Germany. Chimney	512,504	Jan. 9	1303	314	66	258
Cuthbert, Alexander, assignor to T. R. Morgan, Sr., Alliance, Ohio. Disappearing gun carriage	525,489	Sept. 4	284	71	68	1204
Cuthbert, William M., Brooklyn, N. Y. System of electric block-signals for railways	527,267	Oct. 9	965	{ 234 235 }	{ 69 69 }	194
Cuthbert, William M., assignor of one-half to W. C. Donn, Brooklyn, N. Y. Sewing-machine table	522,289	July 3	199	54, 55	68	41
Cutler, Charles B., <i>et al.</i> (See Fowler, Charles M., assignor.)						
Cutler, James G., Rochester, N. Y. Mail-box	519,057	May 1	190	45	67	573
Cutler, Lorrain L., assignor of one-fourth to S. A. Royster, Goodland, Ind. Fluid-pressure governor	529,111	Nov. 13	1056	254	69	858
Cutter, Sophia. (See Bode, Peter J., assignor.)						
Cutter, Henry B. (See Stanley, Lucius T., assignor.)						
Cutter, Henry B. (See Stanley and Braddell, assignors.)						
Cutter, Theophilus, Taunton, Mass. Ice-cutting machine	523,317	July 17	1981	498	68	403
Cutter, William M., Marysville, Cal. Voting-machine	519,494	May 8	1004	243	67	741
Cuttriss, Charles, New York, N. Y. Thermostatic alarm	522,972	July 17	1372	341	68	291
Cutts, William, Tabernacle, N. Y. Warp-frame attachment for knitting-machines	520,303	May 22	2387	580	67	1024
Cwerdinski, Alphonse T., St. Louis, Mo. Fan	523,762	July 31	2766	666	68	577
Cypfers, Charles A., Somerville, Mass. Incubator	530,163	Dec. 4	147	39	69	1243
Czepul, Julius J., assignor of one-half to E. Meyer, Lancaster, Pa. Electric signaling between railway-trains	515,145	Feb. 20	1921	482	66	1246
Czora, Anthony, C. K. Ernst, Jr., and C. J. Dembrack, Buffalo, N. Y. Combined sleigh and wagon	522,973	July 17	1373	{ 341 342 }	{ 68 68 }	291
D. M. Goodwillie Company. (See Goodwillie, Charles F., assignor.)						
D. M. Osborne & Company. (See Sharp, Charles S., assignor.)						
D. S. Morgan & Company. (See Maul, Chris, assignor.)						
D'Arcy, Frank P., Kalamazoo, Mich. Diamond-setting	517,265	Mar. 27	2569	602	66	1963
D'Ebro, Charles A., Melbourne, Victoria. Water module or delivery regulator	518,227	Apr. 17	1371	343	67	224
D'Humy, Paul R. D., assignor of seven-tenths to A. S. Work, Chicago, Ill. Armor-plate ..	530,024	Nov. 27	2674	{ 641 642 }	{ 69 69 }	1186
Dable, John, Chicago, Ill. Corn-harvester	513,673	Jan. 30	3252	{ 798 799 }	{ 66 66 }	746
Dack, Frederick E., assignor of one-half to E. K. Hayes, Galva, Ill. Heater for hot-water heating systems	517,683	Apr. 3	454	110	67	87
Dahl, Charles A., Lynn, assignor to Globe Button-Hole Machine Company, Boston, Mass., and Kittery, Me. Sewing-machine	521,308	June 12	989	233	67	1389
Dahl & Co. (See Elsaesser, Emil, assignor.)						
Dahl & Co. (See Vis, Gerhard N., assignor.)						
Dahl, Olof, Paterson, N. J. Alternating-current motor	525,447	Sept. 4	222	55	68	1192
Dahlgren, John O., Boston, Mass. Electric gas-lighter	515,397	Feb. 27	2360	585	66	1340
Dahlström, John, assignor of one-fourth to H. H. Barclay, Buffalo, N. Y. Valve-gear for steam-engines	511,836	Jan. 2	140	36	66	30
Daily, Edward E., Marlborough, Mass. Gore cutter and marker	514,618	Feb. 13	1075	{ 268 269 }	{ 66 66 }	1073
Daily, John W., assignor of one-half to C. F. Hardon, Boston, Mass. Hypodermic syringe ..	515,705	Feb. 27	2849	709	66	1435
Daily, Josiah, North Peoria, Ill. Bench-stop	531,102	Dec. 18	1788	426	69	1570
Daimler, Carl F. (See Hoffmann and Daimler.)						
Dakin, Ernest F. (See Gates, William H., assignor.)						
Dalby, Spencer J., <i>et al.</i> (See Widrig, Charles, assignor.)						
Dale, Charles H., Hartford City, Ind. Continuous cut-off register for steam-engines	526,383	Sept. 25	1857	{ 441 442 }	{ 68 68 }	1531
Dale, Harry P. (See Wimbrow and Dale.)						
Dale, John C. (See Chandler and Dale.)						
Dale, John H., assignor to P. B. Sweeny, New York, N. Y. Machine for making a combined envelope and note-sheet	512,505	Jan. 9	1304	{ 314 315 }	{ 66 66 }	254
Dales, John H., Leeds, and H. G. Unsworth, Derby, England. Mechanical advertising apparatus	512,163	Jan. 2	729	177	66	139
Dales, William R., St. Paul, Minn. Safety-envelope	516,859	Mar. 20	1868	442	66	1834
Dales, William R., New York, N. Y. Liquid-dispensing apparatus	530,681	Dec. 11	1082	263	69	1426
Dales, William R., New York, N. Y. Beer drawing and saving apparatus	530,827	Dec. 11	1312	316	69	1470
Daley, Michael R., Fall River, Mass. Safety money-drawer	528,082	Oct. 23	2369	572	69	482
Dallas, Madison, New Orleans, La. Can-opener	521,643	June 19	1590	372	67	1517
Dallmer, Hans E. (See Colson, Robert K., assignor.)						
Dalsheimer, Simon, and A. Greenleaf, Baltimore, Md. Support for cards, pictures, or like articles	517,444	Apr. 3	54	12	67	12
Dalstrom, Fred, Anrora, Nebr. Wind-wheel	512,164	Jan. 2	731	177	66	139
Dalton, Daniel F., Waterbury, Conn., assignor to F. W. Whitcher, Boston, Mass. Buckle ..	514,706	Feb. 13	1223	304	66	1102
Dalton, Daniel F., Waterbury, assignor to Hammond Buckle Company, Rockville, Conn. Buckle	523,465	July 24	2240	563	68	464
Dalton, J. M., <i>et al.</i> (See Terhune, Eugene A., assignor.)						
Dalton, Nelson W. (See Dalton, Thomas L. and N. W.)						
Dalton, Richard, Wilmette, Ill. Excavating-machine	520,916	June 5	301	73, 74	67	1252
Dalton, Richard, and H. H. Wills, Bristol, England. Apparatus for making paper cases for inclosing cigarettes, &c.	524,938	Aug. 21	1658	406	68	992
Dalton, Thomas L. and N. W., Sandy Hill, N. Y. Electric switch-signal	515,751	Mar. 6	29	8, 9	66	1460
Daly, Charles A., assignor of two-thirds to M. C. Williams and W. C. Johnson, Minneapolis, Minn. Automatic jointer-guard	519,698	May 15	1364	330	67	820
Daly, Marcus. (See Dougherty, John S., assignor.)						
Daly, Marcus. (See Stalmann, Otto, assignor.)						
Dame, John E., Brooklyn, N. Y. Steam-generator	518,689	Apr. 24	2164	{ 541 542 }	{ 67 67 }	441

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Damon, George L., Boston, Mass. Safe-lock.....	522,153	June 26	2493	{ 598 599 }	67	1703
Dana, Charles H., West Lebanon, N. H. Machine for manufacturing supplementary metallic shingle-strips.....	526,299	Sept. 18	1699	400	68	1487
Dana, Charles H., West Lebanon, N. H. Combination-roofing.....	526,994	Oct. 2	529	130	69	99
Dana, Charles H., West Lebanon, N. H. Roofing tool.....	526,995	Oct. 2	530	130	69	100
Dana, George F., <i>et al.</i> (See Snook, Frank M., assignor.)						
Dana, William F., Belpre, Ohio. Green-corn hnsker.....	512,433	Jan. 9	1177	286	66	235
Danbury Printing Press Company. (See Clarke, George R., assignor.)						
Dancel, Christian. (See Briggs and Dancel.)						
Danckwardt, Paul, assignor of one-half to C. Doebring, New York, N. Y. Apparatus for and process of extracting gold or silver from ores.....	526,099	Sept. 18	1350	314	68	1422
Dancyger, Simon, Dayton, Ohio. Marking-tag.....	520,414	May 29	2572	622	67	1076
Dancyger, Simon, Dayton, Ohio. Pin.....	522,290	July 3	201	55	68	41
Dandridge, Alexander S., Lettown, W. Va. Tunnel.....	524,313	Aug. 14	590	142	68	788
Danforth, George E., Boston, Mass. Glove-fastener.....	515,273	Mar. 6	223	52	66	1495
Dangler, Charles I., and H. Ruppel, Cleveland, Ohio. Heat-radiator.....	521,139	June 5	688	161	67	1320
Dangler, Charles I., and H. Ruppel, assignors to Dangler Stove and Manufacturing Company, Cleveland, Ohio. Heat-radiator.....	516,920	Mar. 20	1972	464	66	1852
Dangler Stove and Manufacturing Company. (See Dangler and Ruppel, assignors.)						
Dangler Stove and Manufacturing Company. (See Kells, Edward, assignor.)						
Dangler Stove and Manufacturing Company. (See Ruppel, Henry, assignor.)						
Daniel, Charles A., Philadelphia, Pa. Striking-bag disk.....	516,719	Mar. 20	1639	390	66	1790
Daniell, Frederick H. (See Lang and Daniell.)						
Daniell, William H., Philadelphia, Pa. Running-gear for cars.....	518,732	Apr. 24	2290	569	67	462
Daniels, Charles A. (See Miller, Norman B., assignor.)						
Daniels, Cornelius F., Macon, Ga. Electric motor or dynamo.....	527,776	Oct. 23	1808	436	69	381
Daniels, David, St. Louis, Mo. Garbage-receptacle.....	514,381	Feb. 13	1506	377	66	1155
Daniels, Fred H., Worcester, Mass. Wire-fence machine.....	528,764	Nov. 6	428	103	69	724
Daniels, George. (See Wolf and Daniels.)						
Daniels, Richard J. (See Price and Daniels.)						
Daniels, Rienzi A., Minneapolis, Minn. Weighing and price scale.....	530,930	Dec. 18	1481	351	69	1516
Daniels, Robert E., assignor to Daniels Steel Railroad Tie Company, Youngstown, Ohio. Metal-railway-tie anchor.....	522,974	July 17	1375	342	68	292
Daniels Steel Railroad Tie Company. (See Daniels, Robert E., assignor.)						
Daniels, W. H., <i>et al.</i> (See Illsley and Cook, assignors.)						
Daniels, Wallen, Fort Smith, Ark. Chair.....	530,092	Dec. 4	27	8	69	1220
Danielson, Gustave F., assignor to Toledo Machine and Tool Company, Toledo, Ohio. Machine for the manufacture of shipping-tags.....	522,514	July 3	578	148	68	114
Danielson, John, <i>et al.</i> (See Drake, Olof, assignor.)						
Danielson, John, Alhambra Springs, Mont. Saw.....	528,415	Oct. 30	2946	712	69	601
Danks, Aaron T. (See Ferguson and Danks.)						
Dankworth, William J., Temple, Tex. Hame-hook.....	515,997	Mar. 6	429	99	66	1532
Dann Bros. & Co. (See Dann, Clarence B., assignor.)						
Dann, Clarence B., assignor to Dann Bros. & Co., New Haven, Conn. Demijohn-crate.....	524,193	Aug. 7	382	91	68	731
Danner, Adam and B., New York, N. Y. Barrel-washer.....	524,461	Aug. 14	863	{ 211 212 }	68	837
Danner, Balzer. (See Danner, Adam and B.)						
Dannmeyer, Martin F., New York, N. Y. Mangle.....	516,566	Mar. 13	1379	328	66	1725
Danois, Louis, Paris, France. Flock-paper.....	518,378	Apr. 24	2487		67	499
Danos, Louis, and A. Haydel, Hohen Solms, La. Cultivator.....	531,514	Dec. 25	2541	608	69	1726
Danquard, Thomas, Brooklyn, N. Y. Toy bowling-alley.....	514,673	Feb. 13	1169	291	66	1091
Danznebaker, Francis, Washington, D. C. Beehive.....	521,876	June 26	1982	479	67	1609
Danznebaker, Howe E., assignor of one-half to C. F. Kindred, Philadelphia, Pa. Electrically-operated railway turn-table.....	517,000	Mar. 20	2100	497	66	1876
Darby, Benjamin F., Clay's Prairie, Ill. Corn-planter.....	520,669	May 29	3003	{ 725 726 }	67	1154
Darby, Henry E., Troy, N. Y., assignor of one-half to J. A. McGarry, Richmond, Va. Horseshoe-bending machine.....	513,455	Jan. 23	2865	{ 703 704 }	66	641
Darby, Henry E., Troy, N. Y., assignor of one-half to J. A. McGarry, Richmond, Va. Horseshoe-swaging machine.....	513,456	Jan. 23	2867	704	66	641
Darche, Paul, Paris, France. Recoil-operated firearm.....	519,151	May 1	374	{ 89 90 91 }	67	610
Dare, Benjamin A. (See Smith and Dare.)						
Dark, Thomas, Sr., Buffalo, N. Y. Smoke-consuming furnace.....	519,079	May 1	241	56, 57	67	582
Darley, John W., Jr., Baltimore, Md., assignor to General Electric Company, Boston, Mass. Controller for electric locomotives.....	530,507	Dec. 11	766	{ 188 189 190 191 }	69	1372
Darley, John W., Jr., assignor of one-half to D. E. Evans, P. Hamburger, M. Holzman, and L. Hamburger, Baltimore, Md. Music-leaf turner.....	519,302	May 1	649	{ 158 159 }	67	663
Darling, Elijah A. (See Begole Gordon W., assignor.)						
Darling, James D., assignor of one-half to H. C. Forrest, Philadelphia, Pa. Producing nitric acid and metals from nitrates.....	517,001	Mar. 20	2101	497	66	1876
Darling, Joseph, Baldwin, Pa. Curtain.....	516,921	Mar. 20	1973	464	66	1852
Darling, Titus S. (See Casper and Darling.)						
Darlington, J. J., trustee. (See Hubbell, Charles J., assignor.)						
Darnell, Calvin F., and L. Koss, assignors to Indianapolis Lath Machine Company, Indianapolis, Ind. Lath-machine.....	524,057	Aug. 7	144	32, 33	68	688
Darone, Albert P., Philadelphia, Pa. Tinner's shears.....	522,108	June 26	2413	579	67	1687
Darrach Car-Fender Company. (See Darrach, Samuel A., assignor.)						
Darrach, Samuel A., assignor to Darrach Car-Fender Company, Newark, N. J. Car-fender.....	525,977	Sept. 11	1144	260	68	1372
Darrah, William J., Fayetteville, Mo. Stacking-frame.....	512,948	Jan. 16	2067	490	66	416
Darrow, Jedediah. (See Jarvis, James M., assignor.)						
Dart, Daniel, and T. R. Parker, Binghamton, N. Y. Transportable elevator for goods.....	519,447	May 8	917	221	67	728
Dart, Daniel W., assignor of one-half to S. B. Doolittle, Binghamton, N. Y. Flue-cleaner for steam boilers.....	521,155	June 12	719	169	67	1340
Dart, Edward M., Providence, R. I. Self-lubricating stop-cock.....	522,515	July 3	580	148	68	114
Dashiell, Julius M., Jr., Washington, D. C. Coin-controlled and coin-return lock for telephones.....	517,445	Apr. 3	55	12	67	12
Dashiell, William W., Bayonne, N. J. Lubricator.....	526,025	Sept. 18	1921	282	68	1399
Danb, Henry, and D. J. Rex, Pittsburg, Pa. Show-case and barrel-cover.....	527,323	Oct. 9	1062	257	69	211
Daudelin, Jean B., Fall River, Mass. Self-threading loom-shuttle.....	530,329	Dec. 4	448	112	69	1296

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Daugherty, James D., Kittanning, Pa. Type-writing machine	514,846	Feb. 13	1452	365 366	66	1146
Daugherty, James D., Kittanning, Pa. Numeral adding or subtracting attachment for type-writing machines	517,735	Apr. 3	536	130 131	67	104
Daugherty, Patsey J., and W. F. Litten, Bellaire, Ohio. Tilting device for search-lights	525,262	Aug. 28	2227	542	68	1111
Daugherty, William, and J. S. Hill, Russellville, Ill. Post-hole digger	515,731	Feb. 27	2886	720	66	1442
Davenport, Frank B. (See Boswell, George G. F., assignor.)						
Davenport, Isaac L., Woodstown, N. J. Filter for oil-cans	513,893	Jan. 30	3599	887	66	813
Davenport, Walton C., assignor to W. H. Davenport, Norwich, Conn. Securing gun-barrels to stocks	512,434	Jan. 9	1179	286	66	235
Davenport, Walton C., assignor to W. H. Davenport, Norwich, Conn. Shell-ejector for breakdown guns	526,690	Oct. 2	33	9	69	9
Davenport, William H. (See Davenport, Walton C., assignor.)						
Davenport, William H., Norwich, Conn. Ejector for breakdown guns	514,674	Feb. 13	1171	291 292	66	1091
Daves, William, Jersey City, N. J. Compensator	518,488	Apr. 17	1820	451	67	365
Dares, William, Jersey City, N. J., assignor to Hall Signal Company, of Maine. Electric railway signaling	530,093	Dec. 4	29	8	69	1320
Dares, William, Jersey City, assignor of two-thirds to S. S. Bogart, Schraalenburg, N. J., and B. Price, Baltimore, Md. Railway signaling device	524,038	Aug. 7	114	25	68	683
Davey, Charles E., Detroit, Mich. Flue-cleaner	513,176	Jan. 23	2409	582	66	553
David, William K., Philadelphia, Pa. Frame for pictures or other articles	516,187	Mar. 13	741	174	66	1606
David, William K., Philadelphia, Pa. Calendar	527,413	Oct. 16	1212	296 297	69	253
Dauids, Charles H., Brooklyn, N. Y. Bicycle-pedal	527,384	Oct. 9	1161	284	69	231
Dauids, Charles H., Brooklyn, assignor of one-half to J. Stewart, New York, N. Y. Variable crank	520,157	May 22	2147	523	67	979
Dauids, E. M. Chisholm. (See Dauids, John B., assignor.)						
Dauids, John B., assignor to E. M. C. Dauids, North Dartmouth, Mass. Game-board	512,165	Jan. 2	733	177	66	140
Dauids, John B., assignor to E. M. C. Dauids, North Dartmouth, Mass. Means for promoting combustion in furnaces	530,299	Dec. 4	394	99	69	1287
Dauids, John B., assignor to E. M. C. Dauids, Dartmouth, Mass. Game-board	519,324	May 8	707	174	67	688
Dauids, John B., assignor to E. M. C. Dauids, Dartmouth, Mass. Promoting combustion in furnaces	519,325	May 8	708	174	67	688
Dauids, John B., assignor to E. M. C. Dauids, Dartmouth, Mass. Game or amusement	519,326	May 8	709	174	67	689
Davidson, Alfred E., et al. (See Maurer, Ludwig, assignor.)						
Davidson, Andrew C., St. Thomas, Canada. Pneumatic tire for bicycles	531,436	Dec. 25	2391	572	69	1699
Davidson, David J., et al. (See Pendry, William A., assignor.)						
Davidson, David J., assignor of two-thirds to A. S. and S. G. Martin, Port Huron, Mich. Separator and grader	521,402	June 12	1154	273	67	1422
Davidson, David J., assignor of two-thirds to A. S. and S. G. Martin, Port Huron, Mich. Purifier, separator, and grader	527,835	Oct. 23	1902	457	69	397
Davidson, David J., Brockway, assignor of two-thirds to A. S. and S. G. Martin, Port Huron, Mich. Agitable sieve cut-off	527,834	Oct. 23	1901	456	69	397
Davidson, Edmund D. (See Pendleton, William S., assignor.)						
Davidson, Frank B. (See Howe and Davidson.)						
Davidson, Harry, assignor of one-half to A. C. Clapp, New York, N. Y. Hook and eye	524,578	Aug. 14	1050	259	68	871
Davidson, John, Wick, Scotland. Grater for culinary purposes	528,416	Oct. 30	2947	713	69	691
Davidson, Lewis P., Owen, Wyo. Wrench	513,308	Jan. 23	2625	636	66	596
Davidson, Mordecai A., and F. R. Lock, Sheridan, Mo. Vehicle-brake	514,446	Feb. 13	775	199	66	1017
Davidson, Otis E., Nashville, Tenn. Macerator for fruit, &c.	525,004	Aug. 28	1788	436 437	68	1034
Davidson, Thomas, Mount Brydges, Canada. Ore-concentrator or mineral-saving machine	512,811	Jan. 16	1828	433	66	372
Davie, John, Chicago, Ill. Horse-checking device	524,988	Aug. 21	1745	426 427	68	1010
Davies, Charles H., Chenoa, Ill. Ventilated hat	516,083	Mar. 6	566	132	66	1558
Davies, David J. H., Wilkes-Barré, Pa. Washboiler	520,589	May 29	2869	694	67	1130
Davies, Edward, Gravelly Hill, near Birmingham, England. Mechanism for exhibiting indicators, &c.	524,194	Aug. 7	383	91	68	731
Davies, Edward, near Stourbridge, England. Apparatus for delivering mail-bags to or from trains in motion	528,083	Oct. 23	2371	572	69	483
Davies, John L., London, England. Multicolor-printing machine	515,821	Mar. 6	148	36	66	1480
Davies, Joseph, Bridgeport, Pa. Fuel-feeding device	524,579	Aug. 14	1051	259	68	871
Davies, Preston, London, England. Means for securing pneumatic tires to wheel-rims	517,113	Mar. 27	2319	546	66	1935
Davies, Preston, London, England. Ball-bearing	526,439	Sept. 25	1975	471	68	1552
Davies, Thomas, Toronto, Canada. Street-car fender	516,266	Mar. 13	874	205	66	1632
Davis, Albert F., Rutland, Vt. Fodder-preparing apparatus	526,689	Oct. 2	29	8	69	8
Davis, Arthur B., Elkridge, Md. Hinge for electric apparatus	531,515	Dec. 25	2543	608	69	1727
Davis, Arthur V., Pittsburg, Pa. Improving surfaces of aluminium	528,513	Oct. 30	3116		69	632
Davis, Benjamin B., and J. F. McGowan, Athens, Ga. Bicycle-support	514,815	Feb. 13	1398	352	66	1135
Davis, Bergen, Newark, N. J. Electric friction-brake	526,966	Oct. 2	487	120	69	91
Davis, Charles A., Pasadena, Cal. Dental vulcanizer	516,700	Mar. 20	1611	384	66	1785
Davis, Charles C., Texarkana, Ark. Coffee-pot	531,164	Dec. 18	1910	455	69	1593
Davis, Charles E., assignor to J. H. Leelle, Chicago, Ill. System of circuit control for electric machines	520,822	June 5	118	20, 27	67	1219
Davis, Charles H., Worcester, Mass. Angle attachment for dental engines	522,291	July 3	292	55	68	41
Davis, Charles M., assignor of one-half to A. A. White, Boston, Mass. Turning-machine	514,215	Feb. 6	418	102	66	931
Davis, Charles M., assignor of one-half to A. A. White, Boston, Mass. Turning-machine	514,216	Feb. 6	419	102	66	931
Davis, Cleveland G., Manistee, Mich. Insect-powder and sand sprayer	515,519	Feb. 27	2549	631	66	1376
Davis, Clifton H., Chicago, Ill. assignor of two-thirds to E. P. Brewer and C. D. Bibbins, Omaha, Nebr. Bottle-stopper	513,674	Jan. 30	3255	799	66	746
Davis, Daniel J., Chicago, Ill. Centrifugal creamer	511,936	Jan. 2	356	83	66	68
Davis, Daniel J., Chicago, Ill. Centrifugal separator-bowl	517,603	Apr. 3	303	70	67	59
Davis, Daniel J., Chicago, Ill. Butter-worker	518,588	Apr. 24	1997	494	67	411
Davis, Daniel J., Chicago, Ill. Centrifugal separator for liquids	521,104	June 5	628	148	67	1310
Davis, Daniel J., Chicago, Ill. Centrifugal creamer	523,885	July 31	2987	743	68	619
Davis, Daniel J., Chicago, Ill. Journal-bearing	526,026	Sept. 18	1223	282	68	1399
Davis Electrical Works. (See Cragg, John E., assignor.)						
Davis, Elizabeth K. (See Davis, Frederick A. W., assignor.)						
Davis, Eugene E., Rockford, Ill. Grain-binder	529,243	Nov. 13	1300	313	69	901
Davis, Francis G., Watertown, N. Y. Device for packing vehicle-wheels	518,395	Apr. 17	1663	412	67	338
Davis, Francis G., Watertown, N. Y. Shipping-cover for vehicles	527,633	Oct. 23	1900	456	69	397
Davis, Francis G., assignor to E. J. Bonney, Watertown, N. Y. Garment-supporter	521,259	June 12	902	213	67	1374
Davis, Frank E., et al. (See Clement, Charles E., assignor.)						
Davis, Frank E., La Crosse, Wis. Colter-clasp	523,926	Nov. 13	755	177	69	805

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Davis, Frank E., Columbus, assignor of one-half to J. B. McCoy, Indianapolis, Ind. Piano-truck	517,543	Apr. 3	207	48	67	42
Davis, Frederick A. W., assignor to E. K. Davis, Indianapolis, Ind. Street-box for gas or water pipes	530,581	Dec. 11	911	223	69	1397
Davis, Frederick A. W., assignor to E. K. Davis, Indianapolis, Ind. Street-box for gas or water pipes	530,887	Dec. 11	1409	335	69	1487
Davis, George A. (See Davis, Guernsey W. and G. A.)						
Davis, George G., and E. Sawyer, Black Pine, Mont. Churn	513,361	Jan. 23	2706	657	66	610
Davis, George H. (See Piper and Davis.)						
Davis, George M., Chicago, Ill. Pressure-reducing valve	518,000	Apr. 10	980	244	67	197
Davis, Giles B., White Cloud, Mich. Elevated carrier	521,309	June 12	993	234	67	1390
Davis, Guernsey W. and G. A., Fairfield, Ark. Baling-press	525,841	Sept. 11	923	{ 206 207 }	{ 68 }	1331
Davis, H. J. F. (See Speare, Andrew J., assignor.)						
Davis, Harry P., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Resistance-coil	513,457	Jan. 23	2869	704	66	641
Davis, Harry P., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Method of and means for controlling electric cars	527,947	Oct. 23	2123	509	69	433
Davis, Henry J., and J. C. McDaniel, Iron City, Ala. Spoke-socket	529,716	Nov. 27	2127	510	69	1083
Davis, Henry T., Chicago, Ill. Device for tightening joints of furniture	526,615	Sept. 25	2244	536	68	1602
Davis, Huber R., Cardington, Ohio. Incubator	519,244	May 1	551	{ 134 135 }	{ 67 }	644
Davis, Huber R., Cardington, Ohio. Heat-regulator for incubators	525,400	Sept. 4	285	71	68	1204
Davis, Isaac, Greenfield, Ind. Stamping-block	515,047	Feb. 20	1764	445	66	1216
Davis, Isaac B., Hartford, Conn. Machine for making boiler-heads	522,190	July 3	29	8	68	8
Davis, James, Forest Home, Ala. Car-coupling	512,466	Jan. 9	1243	300	66	247
Davis, James H., Secane, Pa. Machine for extracting spokes from hubs of wheels	520,258	May 22	2319	562	67	1010
Davis, Jesse M., assignor of two-fifths to J. Hosea, St. Joseph, Mo. Slate attachment	514,117	Feb. 6	220	51	66	896
Davis, Jesse R., assignor of one-third to C. A. Wade, Parkersburg, W. Va. Electric heater	527,324	Oct. 9	1063	237	69	211
Davis, Job, Auburn, N. Y. Child's rocker	516,368	Mar. 13	1047	249	66	1663
Davis, John B., assignor to himself and L. Rosenstein, Moline, Ill. Pipe-holder	522,456	July 3	469	124	68	97
Davis, John D., Wilmington, Del. Coping	522,363	July 3	321	82	68	63
Davis, John E., assignor of one-half to J. H. Townsend, Sharon, Pa. Sash-fastener	519,905	May 15	1695	414	67	883
Davis, John O. (See Lycett, Frederick W., assignor.)						
Davis, John R., Racine, Wis. Whiffletree-hook	513,309	Jan. 23	2626	637	66	596
Davis, John R., Chicago, Ill. Refrigerator	518,096	Apr. 10	1134	286	67	223
Davis, John S., Cleveland, Ohio. Grain-binder	530,886	Dec. 11	1407	335	69	1486
Davis, John V., New York, N. Y., assignor to Challenge High Speed Engine Company, Lexington, Ky. Rotary engine	516,431	Mar. 13	1143	274	66	1682
Davis, John W. (See Rookwood, James W., assignor.)						
Davis, John W., Washington, D. C. Semaphore	520,756	May 29	3153	{ 763 764 }	{ 67 }	1181
Davis, Joshua, et al. (See Hall, Charles W., assignor.)						
Davis, Leonard D., Erie, Pa. Water-tube steam-boiler	521,850	June 26	1940	466	67	1600
Davis, Llewellyn P., Chicago, Ill., assignor to American Wood Decorating Machine Company, New York, N. Y. Adjustable work-support	530,258	Dec. 4	319	79	69	1273
Davis, Lucius S., et al. (See Traphagen, George W., assignor.)						
Davis, M. J., et al. (See Smith, Orison M., assignor.)						
Davis, Martin P. M., Ezel, Ky. Plow	515,752	Mar. 6	30	9	66	1461
Davis, Michael F., Portland, Me. Row-boat	521,536	June 19	1408	325	67	1484
Davis, Nannie G., Washington, D. C. Seam-pressing attachment for sad-irons	524,133	Aug. 7	285	66	68	714
Davis, Nathan H., Philadelphia, Pa. Dust-guard for car-axle boxes	519,152	May 1	379	91	67	611
Davis, Nathan H., Philadelphia, Pa. Axle-box lid	521,207	June 12	808	190	67	1357
Davis, Nathan H., Philadelphia, Pa. Lid for car-axle boxes	521,231	June 12	851	199	67	1364
Davis, Nathan H., Philadelphia, Pa. Lid for car-axle boxes	521,232	June 12	852	199	67	1365
Davis, Ossian C., Racine, Wis. Boiler	519,887	May 15	1672	407	67	878
Davis, Owen W., Jr., Middlesborough, Ky. Ore-roaster	520,481	May 29	2687	650	67	1096
Davis, Pinkney A., Frankfort, Ind. Butchering apparatus	529,367	Nov. 20	1518	363	69	904
Davis, Rees O., San Francisco, Cal. Adjustable bracket-scaffold	530,682	Dec. 11	1083	263	69	1427
Davis, Riley L., assignor, by mesne assignments, of one-half to E. E. Eagan and G. R. Collins, Asheville, N. C. Combination-tool	514,308	Feb. 6	580	144	66	962
Davis, Robert B., Altoona, Pa. Steam-engine	521,105	June 5	630	148	67	1310
Davis, Samuel, et al. (See Lamplough, Frederick, assignor.)						
Davis, Samuel T., Lancaster, Pa. Line-guide for fishing-rods	521,704	June 19	1685	395	67	1536
Davis, Stewart A., Apollo, assignor to Apollo Iron and Steel Company, Pittsburg, Pa. Method of and apparatus for rolling sheet metal	530,094	Dec. 4	30	9	69	1221
Davis, Sylvannus E., assignor of fifty-one one-hundredths to G. Wilson and G. B. Selden, Rochester, N. Y. Voting-machine	526,668	Sept. 25	2335	{ 553 559 560 }	{ 68 }	1618
Davis, Thomas C. (See Van Buren and Davis.)						
Davis, Thomas C., Bradenbaugh, Md. Shingle-machine	517,795	Apr. 3	633	158	67	123
Davis, Thomas J., Charlotte, N. C. Regulator for hydraulic steam-pumps	521,365	June 12	1096	{ 257 258 }	{ 67 }	1411
Davis, W. F. (See Zietzke, Wilhelm A., assignor.)						
Davis, Walter G., et al. (See Lewis, Andrew P., assignor.)						
Davis, Watts N. (See Warren, George L., assignor.)						
Davis, Whitney C., Waterloo, N. Y. Velocipede	513,260	Jan. 23	2557	{ 615 616 }	{ 66 }	582
Davis, William L., Boston, Mass., and B. F. Leach, Louisville, Ky. Device for preventing the refilling of bottles	527,777	Oct. 23	1809	436	69	381
Davis, William N., et al. (See Lewis, Andrew P., assignor.)						
Davis, William P., Newton, Kans. Flooring-clamp	515,660	Feb. 27	2771	690	66	1420
Davis, William P., Rochester, N. Y. Key-seating machine	518,023	Apr. 10	1011	254	67	203
Davis, William W., New York, N. Y. Lock	521,366	June 12	1097	258	67	1411
Davis, William W., East Orange, N. J. Lock	529,606	Nov. 20	1950	463	69	1041
Davis, William W., Woodford, assignor of one-half to C. E. Frey, Sango, Tenn. Paper-hanging apparatus	529,249	Nov. 13	1302	313	69	902
Davison, Neville C., et al. (See Schon, Hubert, assignor.)						
Davison, Ralph C., Westfield, N. J. Dumping-car	524,580	Aug. 14	1052	259	68	871
Davison, Robert A. (See Lincoln, Charles L., assignor.)						
Davison, Robert G., Rochester, N. Y. Door-hanger	517,213	Mar. 27	2489	585	66	1966
Davison, Robert T., New York, N. Y. Bottle-protector	512,812	Jan. 16	1830	433	66	373
Davy, Alfred S., Sheffield, England. Protector for pneumatic tires	517,033	Mar. 27	2174	515	66	1906
Davy, Joseph, Oakland, Cal. Box-fastener	514,416	Feb. 6	728	185	66	991

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Davy, William, Kenosha, Wis. Scraper	514,645	Feb. 13	1117	279	66	1082
Davy, William J., London, England. Electric-arc lamp	521,877	June 26	1985	479 480	67	1609
Daw, Albert W. and Z. W., London, England. Valve for percussive rock-drills	531,587	Dec. 25	2661	638 639	69	1751
Daw, Hilder. (See Daw, Thomas G. and H.)						
Daw, Thomas G. and H., Sevenoaks, England. Machine for producing stereotype matrices and type-writing	531,586	Dec. 25	2656	637 638	69	1750
Daw, Zacharias W. (See Daw, Albert W., and Z. W.)						
Dawes, William C., Marshall, Mo. Hay-stacker	528,862	Nov. 6	628	149	69	761
Dawley, Edwin P. (See Francis and Dawley.)						
Dawson, Edward, Terre Haute, Ind. Trolley for electric railways	525,886	Sept. 17	1001	225	68	1346
Dawson, Edward, and J. O. Thomas, Osceola, Iowa. Vegetation-burner for railway-tracks, &c.	526,300	Sept. 18	1700	400 401	68	1487
Dawson, George H. (See Aubry and Dawson.)						
Dawson, George T. (See Cameron and Dawson.)						
Dawson, Henry T., Salcombe, England. Gas-engine	513,486	Jan. 30	2922	720 191	66	686
Dawson, Henry T., Salcombe, England. Gas-engine	530,508	Dec. 11	780	192 193	69	1374
Dawson, John, Brooklyn, assignor to J. W. Mason & Co., New York, N. Y. Wood-bending machine	527,325	Oct. 9	1064	257	69	211
Dawson, John W. (See Carter, Dawson, and Meyrick.)						
Dawson, William M., New York, N. Y. Plastic compound and making same	511,879	Jan. 2	263		66	52
Dawson, William M., New York, N. Y. Plastering-retarder and making same	523,658	July 31	2564		68	542
Day, Alfred, assignor to Day & Breithaupt, Philadelphia, Pa. Pasting device for sheets, flies, strips, &c.	517,684	Apr. 3	457	110	67	88
Day & Breithaupt. (See Day, Alfred, assignor.)						
Day, Frank L., Glens Falls, N. Y. Machine for sawing blocks from logs	518,589	Apr. 24	1998	494 495	67	411
Day, George. (See Day and Jenkins.)						
Day, George F., and W. Hunter, San Francisco, Cal. Mud and oil trap and water-purifier ..	520,670	May 29	3006	726	67	1154
Day, George H., Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Velocipede	521,761	June 19	1804	428	67	1556
Day, Henry H., Newton, Mass. Safety device for elevators	515,661	Feb. 27	2772	690	66	1421
Day, Henry L., Minneapolis, Minn. Dust or shavings collector	513,090	Jan. 23	2268	548	66	524
Day, Homer, et al. (See Green, William E., assignor.)						
Day, Isaiah N., San José, Cal. Rock drilling and boring machine	517,815	Apr. 3	664	166	67	129
Day, James P., Anniston, Ala. Apparatus for dispensing beer, &c.	518,137	Apr. 10	1197	300	67	234
Day, John and G., and J. Jenkins, Maesteg, England. Diving apparatus	521,208	June 12	809	190	67	1357
Day, Patrick L., Cleveland, Ohio. Rolling-mill guide	514,447	Feb. 13	776	139	66	1017
Day, Robert A., Harrogate, England. Mud-guard for vehicles	529,363	Nov. 20	1520	364	69	964
Day, Wilbur F., et al. (See McBride, Henry, assignor.)						
Day, Wilbur F., and J. A. Pierce, Austin, Minn. Washing-machine	523,659	July 31	2565	642	68	542
Daymon, John, Cardington, Pa. Composition of matter for coating roofs or masonry	515,859	Mar. 6	204		66	1491
Dayton Fan and Motor Company. (See Conklin, Oliver F., assignor.)						
Dayton Manufacturing Company. (See Kirby, John, Jr., assignor.)						
Dayton Manufacturing Company. (See Leen, Patrick, assignor.)						
Dayton Paper Novelty Company. (See Schmidt, Theodore F. W., assignor.)						
Dayton, William A., North Tarrytown, assignor to D. Culhane, Brooklyn, N. Y. Nasal expander	513,458	Jan. 23	2871	705	66	642
Dayton, William H., assignor to Excelsior Needle Company, Torrington, Conn. Machine for swaging needle-blanks	515,576	Feb. 27	2639	656	66	1394
Dazey, Jasper N. (See Lewis, Nathan D., assignor.)						
De Arden, Charles F., New York, N. Y. Device for operating elevator-gates	512,813	Jan. 16	1831	434	66	373
De Arden, Charles F., New York, N. Y. Automatic shut-off for roof-tanks	521,336	June 12	1047	267	67	1401
De Arden, Charles F., New York, N. Y. Device for operating gates for elevator-wells ..	529,161	Nov. 13	1141	276	69	874
De Bem, Francisco V. (See Martin and De Bem.)						
De Bevoise, Charles R., Flushing, N. Y. Underwaist	521,403	June 12	1156	274	67	1423
De Celles, Joseph H. E., Southbridge, Mass. Eyeglasses	527,268	Oct. 9	971	235	69	195
De Celles, Joseph H. E., assignor to American Optical Company, Southbridge, Mass. Oculist's testing-frame	528,716	Nov. 6	336	82	69	707
De Celles, Joseph H. E., assignor to American Optical Company, Southbridge, Mass. Oculist's testing-frame	528,717	Nov. 6	338	82	69	708
De Champ, Obed, Everett, Mass. Shutter-worker	529,607	Nov. 20	1952	464	69	1041
De Coninck, Frank, and E. C. Burr, San Francisco, Cal. Extracting sugar from cane	514,431	Feb. 6	749	191	66	994
De Fontes, Francis, Baltimore, Md. Safety car-fender	515,198	Feb. 20	1998	498	66	1260
De Good, Joseph L., Detroit, Mich. Trombone-gage	526,616	Sept. 25	2245	536	68	1602
De Grasse, George, et al. (See Moehn, John N., assignor.)						
De Grau, Richard X. (See White, Charles E., assignor.)						
De Jarnatt, James F., Lamar, Mo. Check-row corn-planter	530,259	Dec. 4	320	80	69	1273
De Kalb, Enoch E., Syracuse, N. Y. Mounting, operating, and locking swinging windows ..	513,520	Feb. 27	2550	632	66	1376
De Knight, Clarence W., Washington, D. C. Coin-controlled exhibitor	528,084	Oct. 23	2374	573	69	483
De Knight, Victor P., Washington, D. C. Coin-controlled surface exhibitor	523,569	July 24	2414	694	68	497
De la Harpe, Charles. (See Bierer and De la Harpe.)						
De La Hunt, Reveryd C., Cedar Rapids, Iowa. Automatic siphon-flusher	531,516	Dec. 25	2544	608	69	1727
De la Mar, Joseph, assignor of one-half to L. Klein, New York, N. Y. Cigar-bunching machine	523,516	July 24	2333	587	68	481
De La Matyr, Charles R. (See Seeley and De La Matyr.)						
De Lashmutt, Ella F., Chicago, Ill. Abdominal supporter	512,814	Jan. 16	1833	434	66	373
De Loney, James, Plymouth, Ind. Fastening for horse-blankets	522,832	July 10	1196	298	68	242
De Mott, Charles W., Brooklyn, N. Y. Electric ventilating-fan	517,214	Mar. 27	2491	586	66	1968
De Mott, Charles W., New York, N. Y. Primary battery	530,260	Dec. 4	322	80	69	1274
De Mott, James Y., Newark, N. J. Connection for electric wires	521,018	June 5	473	113	67	1282
De Neal, Jackson. (See Edwards and De Neal.)						
De Pregal, Fredricks C., Washington, D. C. Gas range or cooking-cabinet	530,509	Dec. 11	783	193	69	1374
De Raismes, Hippolyte, Elizabeth, N. J. Detachable hook	526,519	Sept. 25	2098	500	68	1574
De Rycke, Jules J., Brooklyn, N. Y. Condenser and exhaust-pipe head	530,023	Nov. 27	2671	641	69	1186
De Saussure, W. P. (See Wood, James N., assignor.)						
De Shong, Franklin L. (See Harpst, Edgar S., assignor.)						
De Vaux, Louis. (See Russell and De Vaux.)						
De Vlamincck, Edmund J., Vésinet, France. Keyboard mechanism for playing upon stringed instruments	521,851	June 26	1943	466 467	67	1600
De Voe, William R., Shreveport, La. Conduit electric railway	520,304	May 22	2389	581	67	1024

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De Witt, Alvin, Elliott, Iowa. Post-hole auger.....	512,540	Jan. 9	1350	326	66	267
De Witt, Charles, Baltimore, Md. Bottle-stopper.....	527,672	Oct. 16	1633	394	69	333
De Witt, John. (See Houghton, Alfred, assignor.)						
De Witt, Margaret, Kansas City, Mo. Face-steaming appliance.....	517,846	Apr. 10	714	180	67	152
De Wolf, William W. (See Cole, Daniel W., assignor.)						
Deacon, Percy J., Toronto, Canada. Bicycle.....	529,717	Nov. 27	2129	510	69	1081
Deakyn, James. (See Gillingham, John, assignor.)						
Deal, Josiah J., Canton, assignor to Deal Lock Company, Akron, Ohio. Permutation-lock.	512,506	Jan. 9	1306	315	66	258
Deal Lock Company. (See Deal, Josiah J., assignor.)						
Dean, Cyrus S., Fort Erie, Canada, assignor of one-half to C. O. Rano, Buffalo, N. Y. Hot-air heating stove.	525,069	Aug. 28	1910	468	68	1056
Dean, Cyrus S., Fort Erie, Canada, assignor of one-half to C. O. Rano, Buffalo, N. Y. Boiler-fine cleaner	526,648	Sept. 25	2300	551	68	1612
Dean, Francis W., Cambridge, and W. E. Mathews, Boston, assignors to Taunton Locomotive Manufacturing Company, Taunton, Mass. Snow-plow for street-railways.	527,523	Oct. 16	1397	340	69	288
Dean & Graves. (See Graves, John, assignor.)						
Dean, S. (See Robbins, Charles H., assignor.)						
Dean, Squire J. (See White and Dean.)						
Dean, Thomas E., Tyldesley, England. Advertising-letter.....	522,154	June 26	2496	599	67	1703
Dean, William E., Ruddleok, La. Air-cushion for head-blocks.....	513,091	Jan. 23	2271	548	66	525
Dean, William W., Chicago, Ill. Boiler-furnace.....	523,808	July 31	2847	707 708	68	592
Deane, Charles P., Springfield, assignor to Deane Steam Pump Company, Holyoke, Mass. Direct-acting engine.	529,545	Nov. 20	1855	441	69	1022
Deane, Herbert C., assignor of one-half to S. W. Sawyer, Fitchburg, Mass. Knife or sickle grinder	524,963	Aug. 21	1690	414	68	999
Deane Steam Pump Company. (See Deane, Charles P., assignor.)						
Deardorff, Benton, Mooreland, assignor of one-half to J. W. Dick, Hagerstown, Ind. Corn-planter	512,646	Jan. 9	1524	366	66	300
Death, Edward, assignor of two-thirds to E. W. Wyatt, Toronto, Canada. Automatic railway gate and signal	529,250	Nov. 13	1304	313 314	69	902
Deats, George W., Fort Worth, Tex. Combination drafting-instrument.....	515,075	Feb. 20	1805	456	66	1224
Deats, John S., and T. R. Stewart, Phoenix, Ariz. Ter. Axle-nut.....	519,468	May 8	960	232	67	734
Debose, Albert S., Cuero, Tex. Car-replacer.....	514,816	Feb. 13	1399	352	66	1136
Debose, Albert S., Cuero, Tex. Combined railway-switch and car-replacing mechanism	530,022	Nov. 27	2670	641	69	1185
Decarie, Felix L., Montreal, Canada. Lead-pipe coupling.....	511,937	Jan. 2	358	83	66	68
Decarie, Felix L., Montreal, Canada. Valve.....	524,134	Aug. 7	286	67	68	714
Decatur Leader Manufacturing Company. (See Brown, Davis, assignor.)						
Deck, Henry, assignor to J. W. P. M., and J. F. Braun, Philadelphia, Pa. Lawn-mower..	519,080	May 1	243	57	67	582
Deck, John. (See Schultz, Adam, assignor.)						
Deckebach, Henry E., Cincinnati, Ohio. Apparatus for cooling and aerating malt liquors	518,941	May 1	12	3	67	539
Deckebach, Henry E., Cincinnati, Ohio. Wort-cooler.....	527,197	Oct. 9	844	206	69	172
Decker, Clarence C. (See Houser and Decker.)						
Decker, John H. (See Decker, William L., assignor.)						
Decker, William L., Plainfield, N. J., assignor of one-third to J. H. Decker, Brooklyn, N. Y. Velocipede.	513,675	Jan. 30	3256	800	66	746
Decker, William L., Orange, assignor of twenty-seven fiftieths to C. B. Clark, Newark, N. J. Saddle for velocipedes	514,748	Feb. 13	1296	322	66	1115
Decker, William M., Kingston, N. Y. Ventilation of buildings.....	514,309	Feb. 6	581	145	66	962
Decker, William M., Kingston, N. Y. Nursing-bottle.....	521,773	June 19	1827	435	67	1561
Deckert, Joseph O., assignor to William Mann Company, Philadelphia, Pa. Inking device for duplicating manuscripts	523,737	July 31	2724	674	68	569
Deckert, Wilhelm, Vienna, Austria-Hungary. Microphone.....	517,564	Apr. 3	242	56	67	48
Décombe, Aminthe, Bordeaux, and P. Lamena, Pauillac, France. Actuating the valves of steam-engines	525,005	Aug. 28	1790	437	68	1034
Decouffé, Anatole E., Paris, France. Machine for the manufacture of non-pasted tubes for cigarettes	514,589	Feb. 13	1030	259	66	1064
Decrow, David A., Lockport, N. Y. Valve mechanism.....	526,484	Sept. 25	2044	486 487	68	1564
Decrow, William E., Boston, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Fire-alarm-telegraph system	526,893	Oct. 2	370	93	69	69
Dedel, Louis, New Orleans, La. Switch-lock attachment.....	525,678	Sept. 4	599	143	68	1261
Deeley, John, Sr. (See Penn and Deeley.)						
Deeley, Richard M. (See Archbutt and Deeley.)						
Deemer, William H., Joplin, Mo. Indicating device for lard coolers and purifiers.....	513,381	Jan. 23	2737	665 666	66	616
Deere & Company. (See Poole, Staley D., assignor.)						
Deere & Company. (See Moore, Gilman, assignor.)						
Deere & Mansur Company. (See White, Charles E., assignor.)						
Defiance Machine Works. (See Seymour, Charles, assignor.)						
Degler, Fred W. (See Bushell and Degler.)						
Dehner, Christ. (See Heneffeld, Dehner, and Van Ness.)						
Deisch, John, White Lake, S. D. Well-reamer.....	526,449	Sept. 25	1976	471	68	1552
Deisher, John K., assignor of one-half to A. H. Rosengarten, Pottsville, Pa. Nut-locking device	511,880	Jan. 2	264	61	66	52
Deitz, Henry, Denver, Colo. Car-coupling.....	515,903	Mar. 6	269	62, 63	66	1504
Deitz, Henry, Denver, Colo. Car-coupling.....	521,433	June 12	1209	286	67	1431
Del Bondio, Emile F., et al. (See Turnbull, Joseph W., assignor.)						
Delabarre, Walter E., F. M. Frazer, and R. A. Carrick, New York, N. Y. Conduit-railway trolley.....	530,828	Dec. 11	1313	316	69	1470
Delage, Gideon, Salida, Colo. Amalgamator.....	521,145	June 5	695	162	67	1321
Delamater, Thomas H. (See Logan, David, assignor.)						
Delaney, Chester A., Richmond, Va. Lubricator.....	517,266	Mar. 27	2570	602 603	66	1983
Delaney, Daniel L. (See Monnce and Delaney.)						
Delaney, Harry, New Albany, Ind. Smoke-consumer.....	517,917	Apr. 10	821	206	67	172
Delaney, James G., New York, N. Y. Carrying apparatus.....	516,084	Mar. 6	567	132 133	66	1558
Delano, Augustus A., et al. (See Austin, William H., assignor.)						
Delano, Ehen A., assignor to J. A. Seaman, Chicago, Ill. Barrel-hooping machine.....	528,765	Nov. 6	420	103 104 105	69	724
Delano, Eben A., Chicago, and F. A. Hardy, Evanston, Ill.; said Delano assignor to said Hardy. Grinding and polishing machine.....	512,012	Jan. 2	472	113	66	91

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Delaney, Alfred G. (See McKay and Delaney.)						
Delarue, Joseph E., assignor to C. Gounelle, Marseilles, France. Press	525,647	Sept. 4	538	131	68	1251
Delattre, Anguste, and F. Brückert, Ferrière-le-Grande, France. Rotary motor	530,220	Dec. 4	255	63	69	1262
Dell, John E. (See Johnson, Luther M., assignor.)						
Deloe, Edward G., Knox, Pa. Tobacco-pipe	517,332	Mar. 27	2678	628	66	2005
Delorieux, John. (See Toulouse and Delorieux.)						
Deloye, Constant G., Lenox, Mass. Gate	516,348	Mar. 13	995	236	66	1655
Delp, Charles H. (See Stuart and Delp.)						
Delug, Alois, Stuttgart, Germany. Roll-holding camera	531,563	June 19	1448	337	67	1491
Delug, Alois, Munich, Germany. Camera	529,369	Nov. 20	1521	364	69	964
Demain, Louis C., Fairfax, Vt. Concealed battery	525,537	Sept. 4	374	91	68	1220
Demarest, Cornelius B., Brooklyn, assignor to Andrews Demarest Seating Company, New York, N. Y. Foot-rest	518,489	Apr. 17	1822	451	67	365
Demarest, Dewitt C., Chicago, Ill. Fountain-pen	522,751	July 10	1011	250	68	206
Demeny, Georges, Paris, France. Producing positive phonoscopic plates	521,705	June 19	1687	396	67	1536
Demetz, George, <i>et al.</i> (See Graves, John, assignor.)						
Deming, Edward, assignor of three-fourths to S. and H. Corn, A. Kaufman, and I. Stern, New York, N. Y. Electric machine for railway systems	528,465	Oct. 30	3039	737	69	617
Deming, Eugene W., New Orleans, La. Settling-tank for sugar manufacture	526,518	Sept. 25	2096	500	68	1574
Deming, Eugene W., New Orleans, La. Process of and apparatus for defecating saccharine solutions	531,460	Dec. 25	2451	583	69	1710
Deming, Horace A. (See Mills, Francis E., assignor.)						
Deming, William B., Bentonville, Ark. Hinge	518,309	Apr. 17	1498	375	67	307
Dennick, George W., assignor of one-half to H. Robinson, G. Fuller, J. S. Earl, and K. P. Martin, Lynn, Mass. Sectional electric railway	513,894	Jan. 30	3600	887	66	813
Dennick, George W., Lynn, Mass., assignor to General Electric Company, of New York. Guard and shade-holder for incandescent lamps	516,801	Mar. 20	1767	417	66	1812
Deniott, William M., Brookville, Pa. Ballot-box	529,608	Nov. 20	1953	464	69	1041
Dempsey, Dominick E., Geneva, N. Y. Slate or blackboard eraser	517,034	Mar. 27	2175		66	1906
Dempsey, Edward, Philadelphia, Pa. Furniture-leg attachment	527,145	Oct. 9	767	187	69	157
Dempster, John T., Summit, N. J., assignor to S. Bergmann, New York, N. Y. Globe-holder for arc lamps	514,417	Feb. 6	730	185	66	991
Demuth, William, New York, N. Y. Tobacco-pipe	521,404	June 12	1157	274	67	1423
Dengel, Rudolph, Brooklyn, N. Y. Extension step-ladder	524,195	Aug. 7	384	92	68	731
Deninger, Fritz, Berlin, Germany. Combined walking-stick and lamp	518,590	Apr. 24	2000	495	67	412
Denio, Frank, Bay City, Mich. Combined pocket-book and head-rest	531,165	Dec. 18	1911	456	69	1593
Denis, Edward, Green Bay, Wis. Toy	519,538	May 15	1588	388	67	863
Denison, John H. (See Shottenberg, Theodore H., assignor.)						
Denison, John H., Maquon, Ill. Feed-box	516,922	Mar. 20	1975	464	66	1852
Denison, Julian F., New Haven, Conn., assignor to Backus Manufacturing Company, Newark, N. J. Suspended electric-fan motor	516,524	Mar. 13	1314	313	66	1713
Denison, Julian F., New Haven, Conn., assignor to Backus Manufacturing Company, of New Jersey. Electric motor	523,140	July 17	1673	419	68	347
Denison, Rial N., and F. M. Geary, Brooklyn, N. Y. Antiseptic mouthpiece for telephones	529,609	Nov. 20	1956	464	69	1042
Denison, Sylvester P., Belleville, N. J., assignor to M. R. Dickson, New York, N. Y. Display-rack	518,098	Apr. 10	1136	286	67	223
Denit, Charles D., <i>et al.</i> (See Parrish, George W., assignor.)						
Denler, Edward E., Chicago, Ill. Skipping-rope	512,815	Jan. 16	1833	434	66	374
Denn, Charles. (See Denn, Cocker, and Denn.)						
Denn, Clayton, J. Cocker, and C. Denn, Philadelphia, Pa. Electric stop-motion for warping-machines	512,013	Jan. 2	475	113	66	91
Denne, Mark C., Eastbourne, and T. J. Denne, Hemel-Hempstead, England. Boot or shoe sewing machine	515,662	Feb. 27	2775	691	66	1421
Denno, Mark T., Eastbourne, England. Shoe-sewing machine	527,836	Oct. 23	1904	457	69	398
Denne, Mark T., Eastbourne, England. Sewing-machine	529,064	Nov. 13	978	232	69	844
Denne, Thomas J. (See Denne, Mark C. and T. J.)						
Dennett, Charles N., Amesbury, Mass. Carriage	522,975	July 17	1376	342	68	292
Dennett, Charles N., Amesbury, Mass. Carriage	522,976	July 17	1376	342	68	292
Denney, Barclay M., Camden, N. J. Automatic circular-knitting machine	528,864	Nov. 6	630	150	69	761
Denney, William G. (See Flower and Denney.)						
Dennis, Edward M., Walkerville, Canada, assignor of one-half to F. R. Beal, Northville, Mich. Automatic hinge for school-seals	511,881	Jan. 2	265	61	66	52
Dennis, Foster S. (See Waitt, George W., assignor.)						
Dennis, Fred F., Worcester, Mass. Coin-operated fortune-telling machine	514,418	Feb. 6	731	186	66	991
Dennis, Fredrick W., Ocala, Fla. Combination downdraft-kiln	523,330	July 24	2008	505	68	425
Dennis, Henry P., assignor of one-half to A. D. Potter, Peoria, Ill. Grain-meter	520,518	May 29	2746	665	67	1106
Dennison, Charles M. (See Hebard, Newton, assignor.)						
Dennison, Robert L., Kansas City, Mo. Self-feeder for thrashing-machines	517,845	Apr. 10	708	179	67	152
Dennison, Walter E., San Francisco, Cal. Heated paving-roller	524,939	Aug. 21	1660	406	68	993
Denny, Christopher C., <i>et al.</i> (See Regester, Thomas L., assignor.)						
Denny & Stevens. (See Regester, Thomas L., assignor.)						
Denoyer, Achille J., Fontainebleau, France. Machinery for manufacturing satchel-bottomed paper bags	515,199	Feb. 20	1999	498	66	1260
Denson, Joseph, assignor of one-half to H. Smith, Stockdale, Tex. Refrigerator	518,396	Apr. 17	1669	412	67	338
Dentelbeck, George A., Myhart, Ind. Fence-machine	523,975	Aug. 7	11	4	68	665
Dentler, Frank, Parkville, Mich. Sully	512,686	Jan. 16	1589	381	66	327
Dentler, Siegmund, assignor of one-third to H. Loewenthal, New York, N. Y. Manufacture of cement	511,938	Jan. 2	359		66	68
Denton, Ben H., <i>et al.</i> (See Anderson, Lee, assignor.)						
Denton, Charles E., Peoria, Ill. Button-attaching machine	518,182	Apr. 10	1272	320	67	247
Denton, Daniel T., Lakeview, Minn., assignor to Pettibone, Mulliken & Company, Chicago, Ill. Hoist-drum for discharge apparatus of coal or ore docks	514,262	Feb. 6	497	122	66	946
Denton, Lemi B., assignor to W. S. Gunn, Grand Rapids, Mich. Caster	525,806	Sept. 11	844	191	68	1318

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Denton, Samuel G., London, England. Magnifying-thermometer	517,446	Apr. 3	60	13	67	14
Denton, Sherman F., Wellesley, Mass. Device for mounting entomological specimens.....	522,883	July 10	1197	299	68	242
Denz, Felix. (See Denz, Fred, assignor.)						
Denz, Fred, assignor of one-half to F. Denz, Buffalo, N. Y. Furnace for natural gas	514,310	Feb. 6	583	145	66	962
Depeuw, George M., Canandaigua, N. Y. Wire fence	525,448	Sept. 4	226	55, 56	68	1192
Depp, Hezekiah E., assignor to O. M. Ritchey, Sedalia, Mo. Mixed air and steam engine and generator	521,762	June 19	1805	428	67	1556
Derby, Alvan P., South Weymouth, Mass. Removable back for seats	518,097	Apr. 10	1135	286	67	223
Derham, Samuel G., assignor of one-half to H. Verhage, Cincinnati, Ohio. Filter	526,027	Sept. 18	1224	282	68	1399
Deritis, Joseph, Detroit, Mich. Interchangeable storm and screen door	529,520	Nov. 20	1815	432	69	1015
Dermody, William F., Brooklyn, N. Y. Switch-operating device	522,109	June 26	2413	579	67	1687
Dernbrack, Charles J. (See Czora, Ernst, and Dernbrack.)						
Derrick, Alice E. (See Watkins, William D., assignor.)						
Derrough, James S., et al. (See Rush, William S., assignor.)						
Des Moines Fuel Saving Furnace Company. (See Wilkinson, Joseph W., assignor.)						
Desant Electric Company. (See Desant, William F. Z., assignor.)						
Desant, William F. Z., New York, N. Y., assignor to Desant Electric Company, of Ohio. Apparatus for producing artificial respiration	514,448	Feb. 13	777	199	66	1017
Descamps, Gaston, Havana, Cuba. Phosphoric acid with an absorbent	527,670	Oct. 16	1631	.....	69	331
Deshler, Henry D., Belvidere, N. J. Fish-spear	528,865	Nov. 6	633	150	69	762
Deslauriers, Philip A., St. Paul, Minn. Fireproof building-wall	520,137	May 22	2110	514	67	971
Desmond, John, assignor to Penberthy Injector Company, Detroit, Mich. Steam-injector	513,559	Jan. 30	3064	754	66	711
Desmond, John, assignor to Penberthy Injector Company, Detroit, Mich. Automatic controlling device for boiler-feeders	521,644	June 19	1591	372	67	1517
Desmond, John, assignor to Penberthy Injector Company, Detroit, Mich. Injector	526,918	Oct. 2	1421	104	69	78
Desmond, John, assignor to S. O. Johnson, Detroit, Mich. Velocipede	524,019	Aug. 7	85	19	68	678
Desrumaux, Henri, Lille, France. Apparatus for purifying water	522,729	July 10	959	238 239 240	68	198
Dessau, Frederick W., Amsterdam, N. Y. Street-sweeper	526,222	Sept. 18	1509	368 369	68	1461
Desté, Elise, San Fernando, Cal. Apparatus for dyeing	512,949	Jan. 16	2068	490	66	417
Detharding, George W. (See Smith, Stephen R., assignor.)						
Detrick & Harvey Machine Company of Baltimore City. (See Detrick and Bachtell, assignors.)						
Detrick, J. S. (See Flanigan, Robert, assignor.)						
Detrick, Jacob S., Baltimore, Md. Bottle-sealing device	524,890	Aug. 21	1571	384	68	978
Detrick, Jacob S., Baltimore, Md. Fender and brake for street-cars	528,766	Nov. 6	433	105 106	69	725
Detrick, Jacob S., and L. H. Bachtell, Baltimore, assignors to Detrick & Harvey Machine Company of Baltimore City, Md. Feeding device for metal-planing machines	518,183	Apr. 10	1274	321	67	248
Detroit Dry Dock Company. (See Kirby, Frank E., assignor.)						
Detroit Time Register Company. (See Watson, Nelson M., assignor.)						
Detter, William H., Denver, Colo. Vehicle-wheel	515,904	Mar. 6	270	63	66	1504
Detterick, Mark. (See Stone, Benjamin F., assignor.)						
Detwiler, Alfred E., assignor to Milwaukee Gas Store Company, Milwaukee, Wis. Kiln	516,629	Mar. 13	1487	353	66	1745
Detwiler, George K. (See Torrey, Silas and C. L., assignors.)						
Detwiler, John S., assignor to W. P. Logan, Philadelphia, Pa. Apparatus for blending powdered materials	525,095	Aug. 23	1961	479 480	68	1064
Detwiler, John S., assignor to W. P. Logan, Philadelphia, Pa. Apparatus for agitating and blending powdered materials	525,138	Aug. 23	2035	497	68	1078
Deucher, Eugene, Cleveland, Ohio. Hair-curler	515,998	Mar. 6	430	99	66	1532
Deuerlein, George, Clifton, N. J. Connection for cement wash-tubs	515,466	Feb. 27	2465	610	66	1360
Deuther, Lorenz A., Buffalo, N. Y. Surgical splint	525,046	Aug. 23	1869	456	68	1049
Deutsch-Amerikanischen Maschinen-Gesellschaft. (See Gähring, Paul, assignor.)						
Deutsch, Clara, et al. (See Deutsch, William, assignor.)						
Deutsch, Eva, et al. (See Deutsch, William, assignor.)						
Deutsch, I. W., et al. (See Prohola, Adam, assignor.)						
Deutsch, Jacob, assignor of one-half to G. W. Whyte, Danville, Ill. Cigar-box lifter	514,181	Feb. 6	340	81	66	917
Deutsch, Sigmund, Philadelphia, Pa. Shirt	523,546	Nov. 20	1857	441	69	1023
Deutsch, William, assignor to C. Deutsch, Baltimore, Md., and E. Deutsch, New York, N. Y. Wardrobe-trunk	515,118	Feb. 20	1871	470	66	1236
Deutsche Gasglühlicht-Actiengesellschaft. (See Muchall, Carl W., assignor.)						
Devanit, Philip J., Denver, Colo. Wind reed musical instrument	527,742	Oct. 16	1749	422	69	353
Deveau, Hubert, New York, N. Y. Grave-signal	523,110	June 26	2415	580	67	1687
Deverall, Edwin R., Brooklyn, N. Y. Oil-can	513,635	Jan. 30	3187	782	66	734
Devereaux, Robert M., Chicago, Ill. Bridge-bit	515,326	Feb. 27	2239	554	66	1318
Devereux, Arthur F., Cincinnati, Ohio. Valve for steam-engines	528,123	Oct. 23	2441	590	69	495
Devers, William J., assignor of one-third to M. F. Rooney, Scranton, Pa. Nut-lock	514,217	Feb. 6	421	102	66	931
Devine, Henry R., Boston, Mass. Wiper and oiler for piston and brake rods	512,166	Jan. 2	733	178	66	140
Devine, Lawrence A. (See Norton and Devine.)						
Devlin, Harriett B., Jersey City, N. J. Manufacturing packing for journals	514,350	Feb. 6	636	.....	66	972
Devlin, Daniel, Worcester, Mass. Faucet	513,092	Jan. 23	2272	549	66	525
Devlin, John H. (See Doyle, Dennis, assignor.)						
Devlin, Lawrence K., Helena, Mont. Railway-rail	531,230	Dec. 18	2140	513	69	1635
Devlin, Thomas, et al. (See Buehler, Rudolph R., assignor.)						
Devoe, Harry M., New York, N. Y. Wheel-tire	519,177	May 1	427	105	67	620
Devoissaud, John P., Sherman, Tex. Steam-engine governor	519,942	May 15	1751	430	67	893
Devoissaud, John P., Sherman, Tex. Quick-speed steam-engine	519,943	May 15	1754	430 431	67	893
Devoissaud, John P., Sherman, Tex. Main slide-valve and throttle-valve for steam-engines	530,400	Dec. 4	568	141	69	1319
Devoll, William, Erdington, England. Driving-gear for velocipedes	527,671	Oct. 16	1632	393	69	331
Devore, Levi M., assignor of one-half to M. H. Wilcoxon, Freeport, Ill. Handle	525,169	Aug. 28	2126	518	68	1092
Devore, Levi M., assignor of one-half to M. H. Wilcoxon, Freeport, Ill. Bicycle-saddle	525,190	Aug. 28	2126	518 519	68	1092
Deweese, Thomas J., Palmyra, N. J., assignor to Electric Cable Construction and Maintenance Company, of Pennsylvania. Electric cable	515,822	Mar. 6	150	37	66	1481
Deweese, Thomas J., Palmyra, N. J., assignor to Electric Cable Construction and Maintenance Company, of Pennsylvania. Splice-covering for electric wires	515,905	Mar. 6	271	63	66	1504
Deweese, Thomas J., Palmyra, N. J., assignor to Electric Cable Construction and Maintenance Company, of Pennsylvania. Electric cable	527,414	Oct. 16	1215	297	69	254
Dewerth, Emil, Detroit, Mich. Dough-cutting machine	521,140	June 5	689	161	67	1321

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Dewey, Alvah. (See Ray and Dewey.)						
Dewey Corporation. (See Dewey, Mark W., assignor.)						
Dewey, Mark W., assignor to Dewey Corporation, Syracuse, N. Y. Power-transmitting mechanism for electric locomotives	513,895	Jan. 30	3601	888	66	813
Dewey, Mark W., assignor to Dewey Corporation, Syracuse, N. Y. Electric railway	516,188	Mar. 13	743	174	66	1607
Dewey, William, Thorp, Wis. Child's swinging cradle	522,783	July 10	1063	262	68	216
Dewey, William, Thorp, Wis. Whiffletree-hook	524,314	Aug. 14	592	142	68	788
Dewson, Edward H., Jr., Lynn, assignor to General Electric Company, Boston, Mass. Pneumatic controller	524,541	Aug. 14	987	243 244	68	858
Dewson, Edward H., Jr., Lynn, Mass., assignor to General Electric Company, of New York. Pneumatic controller	524,542	Aug. 14	992	244 245	68	859
Dexter, Evelyn L., Wauwatosa, Wis. Cold-storage building	525,695	Sept. 11	650	152	68	1283
Dexter, Charles L., Philadelphia, Pa. Hermetically-sealed package for containing ices, &c	519,839	May 15	1588	388	67	863
Dexter Folder Company. (See Dexter, Talbot C., assignor.)						
Dexter, Talbot C., Fulton, N. Y. Packing-box for paper-folding machines	513,766	Jan. 30	3399	838	66	773
Dexter, Talbot C., assignor to Dexter Folder Company, Fulton, N. Y. Paper-pasting machine	523,331	July 24	2099	506	68	425
Dexter, Talbot C., assignor to Dexter Folder Company, Fulton, N. Y. Paper-folding machine	526,859	Oct. 2	314	76 77 78	69	60
Dexter, Talbot C., assignor to Dexter Folder Company, Fulton, N. Y. Paper-registering machine	528,657	Nov. 6	244	60, 61	69	690
Dey, Charles H., and J. M. Anderson, Boston, Mass. Trolley-line breaker	528,767	Nov. 6	435	106	69	725
Dey, John, Syracuse, N. Y. Workman's time-recorder	522,784	July 10	1064	262 263 264	68	216
Dey, John, Syracuse, N. Y. Workman's time-recorder	524,102	Aug. 7	223	52, 53	68	702
Deyerle, James C., Salem, Va. Automatic brake for railway-cars	526,384	Sept. 25	1859	442	68	1531
Diamond Electric Company. (See Scheffer, Gustave A., assignor.)						
Diamond, Henry B., Albany, N. Y. Indicator for doors	519,699	May 15	1365	330	67	821
Diamond Match Company. (See Beecher and Wright, assignors.)						
Diamond Match Company. (See Benham and Barlow, assignors.)						
Dias, Joseph P., San Francisco, Cal. Automatic uncoupler and car-brake	520,204	May 22	2228	542	67	994
Dichmann, William. (See Brand and Dichmann.)						
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Parallel ruling device	516,477	Mar. 13	1222	293	66	1696
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Paper-file	516,525	Mar. 13	1317	313	66	1713
Dick, Albert B., assignor to A. B. Dick Company, Chicago, Ill. Combined desk and typewriter cabinet	518,778	Apr. 24	2329	578	67	470
Dick, George W. (See Cardarelli, Emilio, assignor.)						
Dick, John W. (See Deardorff, Benton, assignor.)						
Dick, John W., assignor to Western Autographic Register Company, St. Louis, Mo. Autographic register	525,449	Sept. 4	227	56	68	1193
Dick, Joseph, Canton, Ohio. Conveyor-chain	526,072	Sept. 18	1306	302	68	1414
Dick, Joseph C. F., Belvidere, Ill. Button-fastening machine	517,604	Apr. 3	304	70, 71	67	60
Dickason, Alexander R. (See McCarten and Dickason.)						
Dickens, John, assignor to Dickens Manufacturing Company, New Brunswick, N. J. Air-pump	514,590	Feb. 13	1032	259	66	1064
Dickens, John, assignor to Dickens Manufacturing Company, New Brunswick, N. J. Lawn-sprinkler	517,544	Apr. 3	210	48	67	42
Dickens, John, assignor to Dickens Manufacturing Company, New Brunswick, N. J. Hand-pump for inflating tires, &c	517,736	Apr. 3	542	131	67	105
Dickens Manufacturing Company. (See Dickens, John, assignor.)						
Dickerson, Benjamin, New York, N. Y. Trunk	519,569	May 8	1147	275	67	768
Dickerhoof, William H., assignor of one-half to G. W. Pollock, Cincinnati, Ohio. Guide for trolley-wheels	531,291	Dec. 18	2141	513	69	1635
Dickerman, Enoch and E. L. Corra, Minn. Washing-machine	529,610	Nov. 20	1956	465	69	1042
Dickerman, Ernest L. (See Dickerman, Enoch and E. L.)						
Dickerson, Chilion D., Marquette, Mich. Curtain-eyolet for vehicles	523,199	July 17	1782	448	68	366
Dickerson, Chilion D., Marquette, Mich. Prescription-bottle	526,772	Oct. 2	174	41	69	33
Dickerson, Clarence, deceased, New York, N. Y.; F. Dickerson, executor. Device for filing and binding news or other papers	528,768	Nov. 6	437	106	69	726
Dickerson, Frank, executor. (See Dickerson, Clarence.)						
Dickerson, J. J., et al. (See Anderson, Lee, assignor.)						
Dickerson, Warren C., New York, N. Y. Combined portable water-heater and stove	524,891	Aug. 21	1572	384 385	68	978
Dickerson, William M., assignor to Indiana Lumber and Veneer Company, Indianapolis, Ind. Indicator for veneer-sawing machines	520,037	May 22	1917	470	67	938
Dickey, Aaron F., Friedens, Pa. Wire-fence stay	530,069	Nov. 27	2757	661	69	1201
Dickey Automatic Car-Coupler Company. (See Dickey and Harding, assignors.)						
Dickey, George A. (See Kendall, Elton P., assignor.)						
Dickey, George W., and T. A. Harding, assignors to Dickey Automatic Car-Coupler Company, Des Moines, Iowa. Car-coupling	519,700	May 15	1367	330	67	821
Dickey, James N. (See Crissom, George A., assignor.)						
Dickey, John B., Newton, Kans. Ball	513,560	Jan. 30	3067	754	66	712
Dickey, Orlan. (See Armstrong, William A., assignor.)						
Dickinson, Austin R., Syracuse, N. Y. Rake	518,001	Apr. 10	981	244	67	197
Dickinson, Austin R., assignor to Syracuse Specialty Manufacturing Company, Syracuse, N. Y. Rake	519,761	May 15	1460	354	67	838
Dickinson, Charles H., Coldwater, Mich. Wire-tightener	523,032	July 17	1492	369	68	311
Dickinson, Charles S. (See Pickett, Charles G., assignor.)						
Dickinson, Daniel A., St. Paul, Minn. Steam and hot-water generator	519,184	Apr. 10	1276	322 323	67	248
Dickinson, George W., and H. H. Warner, Tacoma, Wash. Brake for railway-cars	531,588	Dec. 25	2663	639	69	1751
Dickinson, Herbert Y., and A. G. Macenulloch, London, England. Coin-actuated automatic mechanism for the delivery of ices	517,847	Apr. 10	715	180	67	153
Dickinson, James W., assignor of one-half to J. L. Cox, Milwaukee, Wis. Aerator	514,915	Feb. 26	1564	392	66	1181
Dicks, Thomas A., Buffalo, N. Y. Hand-guard for stamping-presses	513,093	Jan. 23	2273	549	66	525
Dicks, Thomas A., Buffalo, N. Y. Stamping-press	513,636	Jan. 30	3129	782	66	734
Dickson, Amos J. (See Pierce and Dickson.)						
Dickson, Amos J., Glenwood Springs, Colo. Hand-stamp	530,616	Dec. 11	965	236	69	1407
Dickson, Charles H. (See Hopkins and Dickson.)						
Dickson, John H., New Philadelphia, Ohio. Sash-fastener	528,769	Nov. 6	438	107	69	726
Dickson, Mathews R. (See Denison, Sylvester P., assignor.)						
Dickson, Theodore C. (See Hodges and Dickson.)						
Dickson, William B., Kansas City, Mo. Weighing and registering machine	515,953	Mar. 6	344	82	66	1517

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Diebel, William, Philadelphia, Pa. Shaft-hanger	524,315	Aug. 14	593	143	68	788
Diebold Safe and Lock Company. (See Kirks, Albert, assignor.)						
Dieckmann Electrical Company. (See Dieckmann, George F., assignor.)						
Dieckmann, George F., assignor to Dieckmann Electrical Company, Chicago, Ill. Dynamo- electric machine	513,459	Jan. 23	2572	{ 705 706 }	{ 66 66 }	{ 642 642 }
Dieco, Charles P., Owensborough, Ky. Propelling mechanism for boats	521,405	June 12	1158	274	67	1423
Dieco, Charles P., Owensborough, Ky. Mosquito-net frame	530,164	Dec. 4	149	39	69	1242
Diedrick, William H., assignor to J. D. McDougald, Stockton, Cal. Road-scraper	515,999	Mar. 6	431	99	66	1532
Diehl, Frank, Sheboygan, Wis. Feed-water heater and purifier	521,337	June 12	1048	246	67	1402
Diehl, Max, Zweibrücken, Germany. Barrel-washer	514,591	Feb. 13	1033	260	66	1065
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jer- sey. Oscillating hook for sewing-machines	523,332	July 24	2012	507	68	426
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jer- sey. Oscillating hook for sewing-machines	523,333	July 24	2014	507	68	426
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jer- sey. Loop-taker for sewing-machines	523,334	July 24	2017	507	68	426
Diehl, Philip, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jer- sey. Shuttle for sewing-machines	530,095	Dec. 4	32	9	69	1221
Diehl, Theodor, assignor to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Blue-black dye	512,167	Jan. 2	734		66	140
Diem, Christian, Philadelphia, Pa. Spinning-top	524,581	Aug. 14	1053	260	68	571
Diener, Charles, assignor of one-third to B. Bomeisl, Brooklyn, N. Y. Switch-operating device	531,166	Dec. 18	1913	456	69	1593
Dierdorff, Henry B., Columbus, Ohio, assignor to Lechner Manufacturing Company. Min- ing-machine	524,058	Aug. 7	147	33	68	689
Diers, Gerhard, assignor of two-thirds to J. Diers and H. Duhne, New York, N. Y. Cell- ing-top	527,013	Oct. 2	557	136	69	105
Diers, Henry W., Clear Lake, Iowa. Milk-strainer	514,646	Feb. 13	1118	279	66	1082
Diers, Johanna, <i>et al.</i> (See Diers, Gerhard, assignor.)						
Diessel, William H. C., W. O. and E. D. Foote, Mexico, Mo. Sully	528,927	Nov. 13	756	177	69	805
Dieterich, Fred G., Washington, D. C., assignor to Laner Chemical Company, Baltimore, Md. Vending-machine	519,448	May 8	918	{ 221 222 }	{ 67 67 }	{ 728 728 }
Dietrich, Harry A. R., South Bethlehem, Pa. Sectional boiler	526,563	Sept. 25	2159	516	68	1585
Dietz, Charles. (See Dietz, John and C.)						
Dietz, Charles, Chicago, Ill. Automatic railway-switch	526,100	Sept. 18	1352	{ 314 315 }	{ 62 62 }	{ 1422 1422 }
Dietz, George H., Louisville, Ky. Letter or bill file	519,327	May 8	710	175	67	689
Dietz, John and C., Chicago, Ill. Window attachment	525,006	Aug. 28	1793	{ 437 438 }	{ 68 68 }	{ 1035 1035 }
Dietz, Robert E., assignor of one-third to W. K. Palmer, New York, N. Y. Steam-boiler ..	516,369	Mar. 13	1048	249	66	1663
Difenderfer, James W., <i>et al.</i> (See McLaughlin, James F., assignor.)						
Digeon, Jules H., Paris, France. Hydrostatic scale	515,753	Mar. 6	31	9	66	1461
Dignard, Joseph H. (See Collier and Dignard.)						
Dikeman, Charles S., Torrington, Conn. Clip for wheel-rims	523,108	July 17	1611	404	68	337
Dikeman, Henry E., Berkeley, Cal. Dynamo-electric machine	518,444	Apr. 17	1756	436	67	354
Dill, James B. (See Records, Edward, assignor.)						
Dill Spool Support Company. (See Dill, Thomas C., assignor.)						
Dill, Thomas C., Philadelphia, Pa., assignor to Dill Spool Support Company, Philadelphia, Pa., and Camden, N. J. Spool-support	519,669	May 8	1311	313	67	797
Dillard, Walter E., Tappahannock, Va. Variable frictional feed for sawmills	512,099	Jan. 2	617	{ 148 149 }	{ 66 66 }	{ 119 119 }
Dillehay, William J., Davis, W. Va. Nut-lock	528,532	Nov. 6	15	6	69	649
Dillenhack, Alonzo, Palatine Bridge, N. Y. Sliding-door lock	520,415	May 29	2573	622	67	1076
Dillenneck, Noah and N. E., Syracuse, N. Y. Cash-carrier	511,759	Jan. 2	30	7, 8	66	9
Dillenneck, Norman E. (See Dillenneck, Noah and N. E.)						
Dillman, William C., Brooklyn, N. Y. Railway-switch	522,884	July 10	1198	299	68	242
Dillman, William C., Brooklyn, N. Y. Railway-switch	522,885	July 10	1199	299	68	243
Dillmann, Otto, Munich, Germany. Manufacture of glass paintings	518,806	Apr. 24	2379	588	67	478
Dillmore, William R., Philadelphia, Pa. Knitting-machine	527,779	Oct. 23	1816	{ 437 438 }	{ 69 69 }	{ 382 382 }
Dillon, James A., assignor of one-half to F. H. Broer, Toledo, Ohio. Condenser for exhaust- steam	515,874	Mar. 6	223	52	66	1495
Dillon, Michael, <i>et al.</i> (See Phipps, George W., assignor.)						
Dillon, Patrick W., Davenport, Wash. Nut-lock	523,976	Aug. 7	13	4	68	665
Dillon, Peter, Lawrence, Mass. Beating-engine for rags, &c	524,497	Aug. 14	915	236	68	846
Dillon, Peter, assignor of one-half to J. H. Horne, Lawrence, Mass. Calendering-machine ..	525,679	Sept. 4	600	{ 143 144 }	{ 68 68 }	{ 1261 1261 }
Dimmick, William F., Decatur, Ill. Truss for joints of railway-rails	527,198	Oct. 9	847	206	69	173
Dimmitt, Frank W., <i>et al.</i> (See Dougherty, George C., assignor.)						
Dinkel, James S., Longwood, Fla. Hoop for boxes, &c	525,538	Sept. 4	376	91	68	1220
Dinkelacker, Jacob, Jr., Minesville, Pa. Bolt	531,363	Dec. 25	2274	542	69	1675
Dinkey, Alva C., Allegheny county, Pa. Rheostat	518,365	Apr. 17	1625	400	67	329
Dinsmore, Robert, assignor of one-half to A. Greenstein, Weston, W. Va. Railway-tie ..	517,447	Apr. 3	60	13	67	14
Dinsmore, Robert, assignor of one-half to A. Greenstein, Weston, W. Va. Car-coupling ..	517,448	Apr. 3	62	13	67	14
Disbrow, Reuben B., Claremont, Minn., assignor to F. B. Fargo & Company, Lake Mills, Wis. Butter-worker	527,673	Oct. 16	1635	394	69	332
Disc Churn Company. (See Duncan, John H. H., assignor.)						
Disher, Anderson E. (See Heffner and Dishser.)						
Disher, George M., Woodsburg, N. Y. Machine for rolling hides, &c	515,200	Feb. 20	2003	500	66	1261
Disman, George W. (See Barhydt, James A., assignor.)						
Diss, Louis P., Iilon, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type- writing machine	516,300	Mar. 13	919	216	66	1641
Diss, Louis P., Iilon, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type- leveling and aligning device	521,338	June 12	1053	{ 247 248 }	{ 67 67 }	{ 1402 1402 }
Diss, Louis P., Iilon, assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type- writing machine	526,894	Oct. 2	371	93, 94	69	69
Distl, Victor, and A. Susky, Kladno, Austria-Hungary. Screening apparatus	530,261	Dec. 4	323	80	69	1274
Distl, Victor, and A. Susky, Kladno, Austria-Hungary. Screening apparatus	530,262	Dec. 4	325	81	60	1275
Ditsch, Charles, <i>et al.</i> (See Savage, William O., assignor.)						
Ditterline, Pleasant G. (See Castelman, William I., assignor.)						
Dittmann, Jacob, St. Louis, Mo. Nut-lock	529,718	Nov. 27	2130	510	69	1084
Dittmar, William H. (See Judd, Fred J., assignor.)						
Dittmer, Albert, Berlin, Germany. Setting diamonds in cutting-tools	529,611	Nov. 20	1957	465	69	1042
Ditto, General M., Joliet, Ill. Force-feed broadcast seed-sower	525,339	Sept. 4	23	6	68	1155

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Ditzler, George C., Uniondale, Ind. Bag or fodder tie	518,879	Apr. 24	2488	617	67	499
Divan, Charles V., Fils, St. Nazaire, France. Rotary steam-engine	521,950	June 26	2141	512 513	67	1639
Dixon, Edmund J., et al. (See Prince, Jerome, assignor.)						
Dixon, Ezra. (See Chandler, George E., assignor.)						
Dixon, Ezra, Bristol, R. I. Top-roll saddle for spinning-machines	524,103	Aug. 7	228	53	68	703
Dixon, Frank A., San José, Cal. Fruit-jar	522,785	July 10	1067	264	68	217
Dixon, George, assignor to himself and J. Musgrave, Bolton, E. Field and F. S. Morris, Adelphi, England. Fluid-pressure engine	516,594	Mar. 13	1420	336 337	66	1732
Dixon, George, assignor to himself, J. Musgrave, Bolton, E. Field and F. S. Morris, Adelphi, England. Fluid-pressure engine	528,866	Nov. 6	635	151	69	762
Dixon, George E., Beacon, Iowa. Wire-reeler	519,789	May 15	1515	369	67	848
Dixon, James A., Bowling Green, Mo. Hasp-lock	517,685	Apr. 3	458	111	67	58
Dixon, James H. F., Philadelphia, Pa. Paper-fastener	516,189	Mar. 13	747	174	66	1608
Dixon, John A., East Orange, N. J., assignor, by mesne assignments, to Safety Car Heating and Lighting Company, of New Jersey. Apparatus for separating gas from liquid by-products	520,038	May 22	1918	470	67	938
Dixon, John G., Huddersfield, England. Fog-signal apparatus for railways	520,671	May 29	3008	726 727 728	67	1155
Dixon, John G., Birkby, England. Detonator holder or clip for use in fog railway signaling	527,480	Oct. 16	1336	323	69	277
Dixon, John G., Birkby, England. Treadle for use in railway signaling	527,481	Oct. 16	1327	323	69	277
Dixon, John G., Birkby, England. Switch	527,482	Oct. 16	1329	324	69	277
Dixon, John H., Marietta, Ohio. Sprinkler-head	525,946	Sept. 11	1084	247	68	1360
Dixon, Joseph M., assignor of one-half to A. S. French, Brooklyn, N. Y. Automatic railway-switch	528,533	Nov. 6	15	6	69	649
Dixon, Marcus, Pine Brook, N. J. Fence-wire stretcher	513,989	Feb. 6	27	6	66	860
Dixon, Robert M., East Orange, N. J. Steam heating apparatus	523,962	July 31	3134	780 781	68	647
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Heating system	517,035	Mar. 27	2175	515	66	1907
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Valve	525,680	Sept. 4	602	144	68	1261
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Lamp	525,696	Sept. 11	651	152	68	1283
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Steam connection for four-way cocks	528,658	Nov. 6	247	61, 62	69	691
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, New York, N. Y. Car-heater	528,928	Nov. 13	758	177 178	69	805
Dixon, Samuel W., assignor to Dixon Sanitary Crematory Company, Findlay, Ohio. Cremation-furnace	517,816	Apr. 3	665	166	67	129
Dixon Sanitary Crematory Company. (See Dixon, Samuel W., assignor.)						
Dixon, William H., assignor of eleven-sixteenths to C. E. Gartman and F. A. Joslin, Denver, Colo. Rock-drill	524,993	Aug. 21	1760	429	68	1013
Dixon, William W., Brooklyn, N. Y. Device for closing bottles	524,632	Aug. 14	1144	281	68	889
Dixon, Charles H., assignor to H. H. Nickelson, Port Morris, N. J. Window-screen	529,899	Nov. 27	2431	584	69	1139
Doane, Francis. (See Severy, Melvin L., assignor.)						
Doane, Francis, et al., trustees. (See Monks and Severy, assignors.)						
Doane, Samuel E. (See Burnett and Doane.)						
Dobbel, Frederick W., San Francisco, Cal. Sight for firearms	518,734	Apr. 24	2263	562	67	457
Dobbins, Douglas, assignor to T. J. Coyle, W. B. Jennings, T. E. Valentine, F. N. Whitesides, W. D. Welsh, E. H. Jennings, B. P. Brown, J. T. Overstreet, and L. B. Whitesides, Franklin, and J. C. McNutt, Indianapolis, Ind. Voting-machine	530,752	Dec. 11	1197	291	69	1447
Dobbins, Samuel F., Marshall, Mich. Furnace-grate	525,191	Aug. 28	2128	519	68	1093
Dobelin, Charles W. (See Mohroff and Dobelin.)						
Doble, Thomas, assignor of one-half to J. M. Lyons, Binghamton, N. Y. Rope-holder	522,403	July 3	405	103	68	80
Doble, William A., San Francisco, Cal. Sluice-valve	521,106	June 5	631	149	67	1311
Dobson, Charles E., New York, N. Y. Banjo	514,311	Feb. 6	584	146	66	963
Dobson, John B., Philadelphia, Pa. Drying-machine	513,896	Jan. 30	3604	888	66	814
Dockray, Peter J., Kearney, N. J. Car-coupling	515,487	Feb. 27	2497	618	66	1366
Dockstader, Archibald B., et al. (See Mackey, William T., assignor.)						
Dodd, Alvin H., Chicago, Ill. Potato-digger	514,065	Feb. 6	138	33, 34	66	880
Dodd, James, Boston, Mass. Musical instrument	527,269	Oct. 9	973	236	69	195
Dodd, John A., Kewanee, assignor to E. K. Hayes, Galva, Ill. Corn-planter	528,901	Nov. 6	684	164 165	69	772
Dodd, Matthew M., Portsmouth, Va., assignor to Automatic Track Sanding Company, of Maine. Automatic track-sanding apparatus	518,715	Apr. 24	2225	554	67	451
Dodd, William M., Dayton, Ohio. Steam-engine indicator	511,760	Jan. 2	31	8	66	9
Dodder, George W., assignor of one-half to F. H. Shellebarger and A. M. Garrett, Letts, Iowa. Drinking-fountain for poultry	513,561	Jan. 30	3068	754	66	712
Dodge, Arthur B. (See Robinson and Dodge.)						
Dodge, Avery B., Rochester, N. Y. Making knitting-needles	531,023	Dec. 18	1651	392	69	1545
Dodge Cold Storage Company. (See Dodge, James M., assignor.)						
Dodge, Edward W., Augusta, Ga., assignor of one-half to C. I. McLaughlin, New York, N. Y. Marking device	513,897	Jan. 30	3605	888	66	814
Dodge, Henry A., Boston, and W. T. Richards, Newton, Mass., assignors to Bosworth Machine Company, Milford, Conn. Wear-compensating device for needle-bars of sewing-machines	518,836	Apr. 24	2422	600	67	485
Dodge, Henry A., Boston, and W. T. Richards, Newton, Mass., assignors to Bosworth Machine Company, Milford, Conn. Trace cutting and trimming machine	519,570	May 8	1148	276 277	67	768
Dodge, Henry A., Boston, Mass., W. G. Tillon, New Haven, Conn., and W. T. Richards, Newton, Mass., assignors to Bosworth Machine Company, Milford, Conn. Presser-foot mechanism for sewing-machines	512,014	Jan. 2	477	114	66	92
Dodge, James M., Philadelphia, Pa., assignor to Dodge Cold Storage Company, Naugatuck, Conn., and Philadelphia, Pa. Conveyor-trough	512,015	Jan. 2	478	114	66	92
Dodge, James M., Philadelphia, Pa., assignor to Dodge Coal Storage Company, Naugatuck, Conn. Chute for loading vessels, cars, &c	523,851	July 31	2931	730	68	608
Dodge, Jasper N., Detroit, Mich. Oar	515,398	Feb. 27	2360	556	66	1341
Dodge, John S., Minneapolis, Minn. Air-bolt for flour-mills	523,335	July 24	2019	507	68	427
Dodge, Josiah B., Sedalia, assignor of one-half to T. E. Fleming, Graham, Mo. Race-track Dodge Manufacturing Company. (See Orton, Lyman O., assignor.)	529,162	Nov. 13	1143	276	69	875
Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine	520,158	May 22	2148	523	67	979

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Dodge, Philip T., Washington, D. C., assignor to Mergenthaler Linotype Company. Linotype-machine	530,931	Dec. 18	1483	351	69	1516
Dodge, Rodney H., and H. S. Clinton, Ancona, Ill. Implement for sharpening disk knives	531,364	Dec. 25	2275	542	69	1675
Dodge, Walter E., Boston, Mass. Injector	530,476	Dec. 4	686	172	69	1341
Dodge, William E., Baltimore, Md. Vessel	529,065	Nov. 13	982	233	69	844
Dodge, William L., assignor of one-half to I. W. Hanson, Haverhill, Mass. Railway-crossing-gate tube	523,624	July 24	2508	629	68	514
Dodgson, Frank L., assignor to Railway Electric and Auto-Pneumatic Signal Company, Rochester, N. Y. Switch and signal apparatus	513,231	Jan. 23	2491	{ 602 603 }	{ 66 66 }	569
Dodgson, Frank L., assignor, by mesne assignments, to Auto-Pneumatic Railway-Signal Company, Rochester, N. Y. Railway-signal	514,118	Feb. 6	221	51	66	896
Dodgson, Frank L., assignor, by mesne assignments, to Auto-Pneumatic Railway-Signal Company, Rochester, N. Y. Pneumatic switch-operating device	514,119	Feb. 6	223	52	66	896
Dodson, Harry E., assignor to P. P. Mast & Company, Springfield, Ohio. Disk cultivator	530,932	Dec. 18	1485	352	69	1516
Doe, Walter S., assignor of one-half to H. Thompson, Brooklyn, N. Y. Battery connection	530,401	Dec. 4	571	141	69	1319
Doebler, Charles F., Hartford, Conn. Knob attachment	524,848	Aug. 21	1512	309	68	967
Doehler, Charles, Philadelphia, Pa. Fire-escape	518,055	Apr. 10	1069	270	67	211
Doehring, Charles. (See Danckwardt, Paul, assignor.)						
Doelle, Ferdinand, and H. von Glahn, New York, N. Y. Lamp	530,402	Dec. 4	572	142	69	1320
Doerffinger, George, Brooklyn, N. Y. Ore-separator	517,974	Apr. 10	922	231	67	189
Doerr, August T., Harvel, Ill. Hame-coupling	529,647	Nov. 20	2010	481	69	1052
Doherty, John T., Cambridge, Mass. Conductor's money-belt	524,104	Aug. 7	229	54	68	703
Dohin, Jean B. (See Castaing and Dohin.)						
Dohnal, John, New York, N. Y. Sash-fastener	512,647	Jan. 9	1527	366	66	301
Doig, William, London, England. Vehicle-wheel	524,059	Aug. 7	151	34	68	690
Doig, William S. (See McAllister, John, assignor.)						
Doig, William S., Brooklyn, N. Y. Box-nailing machine	518,002	Apr. 10	982	{ 244 245 }	{ 67 67 }	198
Dokkenwadel, Fredrik G., Union City, Ind. Bowling-ball	531,103	Dec. 18	1779	426	69	1570
Dolan, Henry, Minersville, Pa. Nut-lock	531,024	Dec. 18	1653	392	69	1546
Dolheare, Frederic L., and A. E. Keating, Fort Hamilton, N. Y. Disinfecting device	525,450	Sept. 4	239	56	68	1193
Dolbeer, John. (See Ench, Fiegel, Cooke, and Schultze, assignors.)						
Dolber, John E., Manchester, N. H. Thill-support	526,691	Oct. 2	34	9	69	9
Dold, George P. (See Blundell, William C., assignor.)						
Dole, John F., Colfax, Wash. Weed-cutter	516,000	Mar. 6	432	100	66	1532
Dolge, Rudolf. (See Gery and Dolge.)						
Dolivo-Dobrowolsky, Michael von, assignor to Allgemeine Elektrizitäts-Gesellschaft, Berlin, Germany. Continuous-electric-current distributing system	513,006	Jan. 16	2158	513	66	434
Doll, William F., Winnipeg, Canada. Ring-gage	517,096	Mar. 27	2295	541	66	1930
Dolliver, Pillsbury C., Augusta, Me. Sash-fastener	517,605	Apr. 3	306	71	67	60
Dolphin, Joseph A., et al. (See Bynon, William, assignor.)						
Dolphin, Matthew J., Brooklyn, N. Y. Ink-feeder	517,036	Mar. 27	2176	{ 515 516 }	{ 66 66 }	1907
Dolphin, Matthew J., Brooklyn, N. Y. Machine for stamp-canceling and postmarking letters	517,037	Mar. 27	2179	516	66	1907
Dom, Alexander, Mount Healthy, assignor to Globe Company, Cincinnati, Ohio. File for index-cards	525,947	Sept. 11	1085	247	68	1360
Domer, Albert. (See Mitting, Ebenezer K., assignor.)						
Dominiel, Christopher. (See Scognamiglio and Dominiel.)						
Domnick, Gustav, Cologne, Germany. Elastic fire support for beds or seats	526,860	Oct. 2	319	78	69	61
Donahoe, Edward H., Peoria, Ill. Grease-trap	524,493	Aug. 14	917	226	68	846
Donahoe, Peter B., assignor to G. S. Switzer, San Francisco, Cal., H. R. Bean, and G. B. Sinclair, Chicago, Ill. Street-sweeper	521,852	June 26	1945	{ 467 468 }	{ 67 67 }	1601
Donahoe, Peter B., assignor to G. S. Switzer, San Francisco, Cal., H. R. Bean, and G. B. Sinclair, Chicago, Ill. Broom-making machine	521,853	June 26	1947	468	67	1601
Donald, William, Saltcoats, Scotland. Making chlorin	518,445	Apr. 17	1759	436	67	355
Donald, William, Saltcoats, Scotland. Making chlorin	518,446	Apr. 17	1761	{ 436 437 }	{ 67 67 }	355
Donaldsen, William C., Windsor, Canada, assignor of one-half to W. H. Brady, Detroit, Mich. Target-trap	525,317	Aug. 28	2326	563	68	1131
Donaldson, Charles B., Wilmington, Ohio. Flour-packing bit	523,977	Aug. 7	15	4	68	665
Donaldson, John E., and J. A. Ather, Montezuma, Ind. Roofing-tile	522,686	July 10	873	216	68	184
Donally, Amelia M. (See Donally, Melvin E., assignor.)						
Donally, Melvin E., assignor to A. M. Donally, Brooklyn, N. Y. Bottle-washer	525,139	Aug. 28	2038	498	68	1078
Donathen, William B., Kansas City, Mo. Corn-popping machine	518,664	Apr. 24	2125	532	67	433
Donau-Trapp Climax Gas Producer Company. (See Trapp, Samuel M., assignor.)						
Dondero, Joseph, et al. (See Gillin, John A., assignor.)						
Dondero, Louis, et al. (See Gillin, John A., assignor.)						
Donecken, Augustus H. (See Forrester and Donecken.)						
Donagan, Henry F. (See Carter, Dawson, and Meyrick, assignors.)						
Donellan, James S., et al. (See Shaw, George V., assignor.)						
Donisthorpe, George E., and T. Burrows, London, England. Machine for scutching flax, hemp, &c.	522,516	July 3	582	149	68	115
Donlon, Thomas, Oneida, N. Y. Animal-trap	518,024	Apr. 10	1013	255	67	203
Donn, Wilton C. (See Cuthbert, William M., assignor.)						
Donnell, John, Washington, D. C. Fence	527,780	Oct. 23	1810	438	69	383
Donnell, John W. (See Friede, Samuel M., assignor.)						
Donnell, Thomas. (See Schwalbe and Schneider, assignors.)						
Donnelly, John R., Fairfield, Me. Electric lock	516,478	Mar. 13	1223	293	66	1696
Donnelly, John R., and C. F. Barton, Fairfield, Me. Flushing-tank	515,521	Feb. 27	2552	633	66	1377
Donnelly, Joseph C., Philadelphia, Pa. Match-making machine	519,150	May 1	371	88, 89	67	610
Donnelly, Joseph C., Philadelphia, Pa. Match-splint-assembling machine	524,196	Aug. 7	386	92, 93	68	732
Donnelly, Joseph C., Philadelphia, Pa. Match-making machine	524,197	Aug. 7	391	93, 94	68	733
Donner, Hermann, assignor to Strickmaschinenfabrik Seyfert & Donner, Gesellschaft mit Beschränkter Haftung, Chemnitz, Germany. Transferring apparatus for knitting-machines	527,674	Oct. 16	1636	{ 394 395 }	{ 69 69 }	332
Donoho, Thomas, Everett, Mass. Potato-digger	530,263	Dec. 4	328	81	69	1275
Donovan, Daniel J., Buffalo, N. Y. Grappling device for roofs	530,165	Dec. 4	150	39	69	1242
Donovan, George L., assignor of one-half to D. Fagan, Wallingford, Conn. Can-opener	517,268	Mar. 27	2574	603	66	1924
Donovan, James, assignor to Roberts, Throp & Company, Three Rivers, Mich. Railway-velocipede	514,449	Feb. 13	779	200	66	1018
Donovan, John J., Kingston, N. Y. Stone-screen	521,209	June 12	812	191	67	1357
Donovan, John T., and H. L. Gardner, Springfield, Mass. Producing ozone	527,326	Oct. 9	1066	257	69	212

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Doushea, William L., New York, N. Y. Controlling electromagnetic machines.....	531,365	Dec. 25	2276	{ 542 543	69	1676
Donze, Seraphim B., Weingarten, Mo. Cider-press.....	511,761	Jan. 2	32	{ 543 544		
Dooley, Thomas B., Melrose, assignor to E. B. Welch, Cambridge, and J. Middleby, Jr., Malden, Mass. Grinding-machine.....	522,155	June 26	2497	599	67	1704
Doolittle, Franklin L. <i>et al.</i> (See Kirtley, Harry L., assignor.)						
Doolittle, Irvin P. (See Husted and Doolittle.)						
Doolittle, Rollin E. (See Rudge and Doolittle.)						
Doolittle, Sidney B. (See Dart, Daniel W., assignor.)						
Doolittle, William W., assignor to Crane Company, Chicago, Ill. Tumbler.....	518,735	Apr. 24	2265	{ 562 563	67	457
Doolittle, William W., assignor to Crane Company, Chicago, Ill. Molding-machine.....	523,466	July 24	2241	{ 563 564		
Doran, William L., Niagara, Canada. Suspender-buckle.....	527,170	Oct. 9	803	196	69	164
Dorff, Charles, Grand Rapids, Mich. Desk-lid support.....	513,382	Jan. 23	2738	666	66	617
Doriot, Constant, assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Electric motor.....	515,498	Feb. 27	2498	618	66	1366
Dormau, Stephen G., <i>et al.</i> (See Sythes, William H., assignor.)						
Dormus, Fritz von, Floridsdorf, Austria-Hungary. Locomotive fire-box.....	516,923	Mar. 20	1976	465	66	1852
Dornberg, Ferdinand A. (See Veen and Dornberg.)						
Dornberger, Lawrence, Highland Falls, N. Y. Electrical railway-signal.....	524,758	Aug. 21	1353	330	68	939
Dornfeld, John F., Watertown, Wis. Apparatus for tempering air.....	513,487	Jan. 30	2924	{ 720 721	66	686
Dornfeld, John F., Watertown, Wis. Stirring and aerating apparatus.....	518,665	Apr. 24	2129	531		
Dorufeld, John F., Watertown, Wis. Malting-floor.....	518,666	Apr. 24	2131	533	67	434
Dornin, William W. (See Scoville and Dornin.)						
Dorr, James W., Sr., Pensacola, Fla., assignor of one-half to E. D. Mereno, Bayou Sara, La. Striking mechanism for timepieces.....	525,978	Sept. 11	1145	260	68	1372
Dorr, Samuel G., Buffalo, N. Y. Apparatus for extracting gold and black sand.....	519,245	May 1	554	135	67	644
Dorsam, Louis. (See Dorsam, William and L.)						
Dorsam, William and L., Millville, N. J. Desk or table article.....	514,351	Feb. 6	637	163	66	972
Dorsey, Richard V., assignor to Jensen & Lauritzen, Watsonville, Cal. Sulky-cultivator.....	525,096	Aug. 28	1964	480	68	1064
Dorsey, Walter, Dorseyville, and J. E. Brenneisen, Unionville, Md. Butter-mold.....	519,495	May 8	1507	243	67	742
Dorton, Robert E., <i>et al.</i> (See Wilson, James N., assignor.)						
Dost, Rudolf, Chicago, Ill. Separable-screw-cutting die.....	530,166	Dec. 4	151	40	69	1243
Doster, Jules, Montreal, Canada. Hose-coupling.....	528,929	Nov. 13	760	178	69	805
Doswell, John H. (See Adams and Doswell.)						
Dotterweich, Frederick V. (See Boesger and Dotterweich.)						
Doty, Henry A., assignor to M. E. Doty, Jaunesville, Wis. Electric railway.....	523,306	July 17	1956	493	68	399
Doty, Mary E. (See Doty, Henry A., assignor.)						
Doubleday, Villeroy C. (See Rosenthal and Doubleday.)						
Doubleday, William C., Columbus, Ohio. Corn-harvester.....	512,541	Jan. 9	1351	{ 326 327	66	267
Doud, Brenson, Chili, Ind. Fence-wire stretcher.....	524,582	Aug. 14	1054	260		872
Doud, Royal H., Chicago, Ill. Process of and apparatus for destroying noxious gases.....	528,718	Nov. 6	339	82	69	708
Doud, Thomas. (See Chambers and Doud.)						
Dougherty, Albert G., Chambersburg, assignor of two-thirds to T. B. Buskirk, Paoli, Ind. Self-acting breech-loading gun.....	529,521	Nov. 20	1816	432	69	1015
Dougherty, George C., assignor to F. W. Dimmitt and F. S. Stephenson, Oneida, Ill. Combined mattress and bed-pan.....	522,292	July 3	204	55	68	42
Dougherty, John S., assignor to M. Daly, Anaconda, Mont. Mechanism for handling molten metal.....	528,770	Nov. 6	440	107	69	726
Dougherty, John S., assignor to M. Daly, Anaconda, Mont. Method of recovering concentrates and apparatus for carrying out said method.....	530,753	Dec. 11	1199	{ 291 292 293	69	1448
Dougherty, Richard F., Scranton, Pa. Spark-arrester.....	524,525	Aug. 14	967	237		854
Doughty, George E., Jamaica, assignor to Cooke & Cobb Company, New York, N. Y. Pen.....	512,607	Jan. 9	1451	351	66	285
Doughty, Henry J., Providence, R. I. Pneumatic tire.....	524,105	Aug. 7	230	54	63	704
Douglas, Frank, Chicago, Ill. Bicycle.....	518,591	Apr. 24	2001	496	67	412
Douglas, John, Elizabeth, N. J., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine.....	516,190	Mar. 13	748	175	66	1608
Douglas, Joseph R. (See Watson and Douglas.)						
Douglas, Lingle D. (See King, William D., assignor.)						
Douglas, Robert, and J. F. Austin, Detroit, Mich. Clothes-drier.....	519,178	May 1	429	105	67	620
Douglas, Thomas P., <i>et al.</i> (See Moore, John Y., assignor.)						
Douglas, William, Providence, R. I. Railway-switch.....	525,140	Aug. 28	2042	498	68	1079
Douglass, Elwood E., Hanford, Cal. School program-holder.....	516,301	Mar. 13	924	216	66	1642
Douglass, J. Walter. (See Lockhart, Walter M., assignor.)						
Douglass, J. Walter. (See Payne, William H., assignor.)						
Douglass, Robert H., Colville, Wash. Weed-cutter.....	514,312	Feb. 6	585	146	66	963
Douglass, Samuel W., and A. J. Sypher, assignors to M. C. Bullock, Chicago, Ill. Rock-drill tripod.....	512,016	Jan. 2	480	114	66	92
Douglass, William E. (See Havener, Frank O., assignor.)						
Dousman, James H., Milwaukee, Wis. Automatic check-valve.....	531,304	Dec. 25	2168	518	69	1655
Dovey, Albert A., Newark, N. J. Extension-key.....	517,038	Mar. 27	2182	516	66	1908
Dow, Allan W., New York, and T. R. Griffith, Brooklyn, N. Y. Electrical limiting time-interval clamp or brake.....	512,687	Jan. 16	1591	{ 382 383	66	328
Dow, George B. N., assignor of three-fourths to C. E. York, H. B. Fairbanks, and G. W. Prescott, Manchester, N. H. Attachment for window-shades.....	524,583	Aug. 14	1055	260		872
Dow, George E., assignor of one-half to C. M. McCabe, Denver, Colo. Safety device for elevators.....	520,844	June 5	164	36	67	1227
Dow, Josiah, Philadelphia, Pa. High-speed engine.....	521,706	June 19	1658	{ 396 397	67	1537
Dow, Josiah, Philadelphia, Pa. Governor for motors.....	526,301	Sept. 18	1702	{ 401 402		
Dow, Rion L., Hartford, Conn. Envelope.....	527,948	Oct. 23	2124	510	69	438
Dow, William B., Wilkes-Barré, Pa. Apparatus for starching clothes.....	512,282	Jan. 9	915	223	66	185
Downer, Joseph E., Allenport, Pa. Switch and operating mechanism.....	517,002	Mar. 20	2102	497	66	1877
Downes, Louis W., Providence, R. I. Circuit-breaker for electrotherapeutic apparatus.....	524,165	Aug. 7	342	80	68	724
Downes, William A., assignor to Pomeroy Injector Company, Detroit, Mich. Lubricator.....	524,584	Aug. 14	1056	260	68	872
Downey, William F., Washington, D. C. Horseshoe.....	521,645	June 19	1592	373	67	1517
Downie, Alfred J. (See Downie, Peter S. and A. J.)						
Downie, Peter S. and A. J., Marinette, Wis. Fishing apparatus.....	522,111	June 26	2416	580	67	1688

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Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Drilling-machine	527,237	Oct. 9	913	221	69	186
Downing, Leverett H., North Andover, Mass. Shuttle-box-operating mechanism for looms	529,163	Nov. 13	1144	276	69	875
Downing, Thomas J., Lincoln, Ill. Type-writing machine	529,522	Nov. 20	1818	433	69	1016
Downing, William H., Goodell, Pa. Piston for Artesian or oil wells	518,490	Apr. 17	1823	451	67	365
Downs, George A. (See Fowler and Downs.)						
Downs, J. Willis. (See Brown, David, assignor.)						
Downs, Taylor W., St. Louis, Mo. Street-sweeper	518,716	Apr. 24	2227	554	67	451
Dowrey, Thomas, <i>et al.</i> (See Brelsfoard, William S., assignor.)						
Dowse, William B. H., Newton, Mass. Buckle-fastener	520,018	May 15	1878	459	67	915
Dowse, William B. H., Newton, Mass., assignor to Consolidated Fastener Company, Portland, Me. Glove-fastener	522,293	July 3	206	56	68	42
Doyle, Albert T. (See Mathews and Doyle.)						
Doyle, Dennis, assignor of one-half to J. H. Devlin, Worcester, Mass. Bottling apparatus	526,773	Oct. 2	175	41	69	33
Doyle, Dennis M., <i>et al.</i> (See Finley, James H., assignor.)						
Doyle, Eleanor L. (See Doyle, John H., assignor.)						
Doyle, John H., assignor to E. L. Doyle, Chicago, Ill. Hook and eye	530,933	Dec. 18	1487	352	69	1517
Doyle, William. (See Cartwright, Edwin, assignor.)						
Doyle, William J. C., assignor of one-half to T. Beckley, Aspen, Colo. Multiple blasting-fuse	530,025	Nov. 27	2676	642	69	1187
Dozier, Lewis D., St. Louis, Mo., assignor to Traveler's Portfolio Company, of Missouri. Traveler's combined collar and cuff case. (Reissue)	11,421	June 5	697	163	67	1322
Drader, Joseph, London, Canada. Spade-barrow	514,066	Feb. 6	141	34	66	880
Drake, David A., Englewood, Ill. File-case	527,949	Oct. 23	2125	510	69	438
Drake, George H., Omaha, Nebr. Steam-boiler	523,109	July 17	1611	404	68	337
Drake, I. N., <i>et al.</i> (See Harvey, Isaac, assignor.)						
Drake, James A. (See Weyman and Drake.)						
Drake, Jesse, Jackson, Miss. Combination corn harvester and husker	522,008	June 26	2257	541	67	1658
Drake, Jesse, Jackson, Miss. Engine-pilot	528,152	Oct. 30	2491	603	69	519
Drake, Olof, assignor of one-half to J. Danielson and J. Elstrom, Denver, Colo. Fanning attachment for rocking-chairs	523,318	July 17	1982	498	68	404
Drake, Owen, Armada, Mich. Horse-collar fastener	529,523	Nov. 20	1822	433	69	1016
Drake, Thomas, Huddersfield, England. Electrolytic apparatus for the manufacture of chlorine and caustic soda	528,153	Oct. 30	2492	603	69	520
Drake, William H., Hackettstown, N. J. Apparatus for the manufacture of cores for casting	526,101	Sept. 18	1354	315	68	1422
Drake, William H., Chicago, Ill. Continuous metal joist-support	526,302	Sept. 18	1707	402	68	1489
Drake, William H., and J. C. Green, Hackettstown N. J.; said Green assignor to said Drake. Means for casting	524,543	Aug. 14	998	245	68	861
Drake, William H., and J. C. Green, Hackettstown, N. J.; said Green assignor to said Drake. Fire-grate	527,778	Oct. 23	1813	437	69	382
Dralle, Robert, Berlin, Germany, assignor of one-half to R. M. Atwater, Pittsburg, Pa. Apparatus for compounding and mixing glass batch	520,138	May 22	2111	515	67	972
Draper, George A. (See Rhoades and Draper.)						
Draper, George A., assignor to G. Draper & Sons, Hopedale, Mass. Spindle-retaining device	513,898	Jan. 30	3606	888	66	814
Draper, George A. and G. O., assignors to G. Draper & Sons, Hopedale, Mass. Separator for spinning-frames	526,010	Sept. 11	1192	273	68	1381
Draper, George O. (See Draper, George A. and G. O.)						
Draper, George O., Hopedale, Mass. Transverse seat for foot-power vehicles	524,106	Aug. 7	231	54	68	704
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Device for adjusting bearings of spinning-spindles	517,270	Mar. 27	2576	604	66	1985
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Combined bearing for spindles	518,447	Apr. 17	1762	437	67	355
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Ring for spinning and twisting frames	523,200	July 17	1782	448	68	366
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Separator-frame and support	524,166	Aug. 7	344	81	68	724
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Separator	525,451	Sept. 4	230	57	68	1193
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Sleeve-whirl and load-equalizer for spinning-spindles	525,452	Sept. 4	232	57	68	1193
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Spindle-bearing-adjusting device	525,453	Sept. 4	233	57	68	1194
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Loom	527,014	Oct. 2	558	136	69	105
Draper, George O., assignor to G. Draper & Sons, Hopedale, Mass. Centering device for spindles	527,015	Oct. 2	562	137	69	106
Draper, John, <i>et al.</i> (See Holmgren, Alfred, assignor.)						
Draper & Sons, George. (See Allen, William E., assignor.)						
Draper & Sons, George. (See Draper, George A., assignor.)						
Draper & Sons, George. (See Draper, George A. and G. O., assignors.)						
Draper & Sons, George. (See Draper, George O., assignor.)						
Draper & Sons, George. (See Draper, William F., assignor.)						
Draper & Sons, George. (See Hinchliffe, William, assignor.)						
Draper & Sons, George. (See Knight, George W., assignor.)						
Draper & Sons, George. (See Morrill, Ernest L., assignor.)						
Draper & Sons, George. (See Northrop, James H., assignor.)						
Draper & Sons, George. (See Piper, Orin, assignor.)						
Draper & Sons, George. (See Rhoades, Alonzo E., assignor.)						
Draper & Sons, George. (See Smith, Oberlin, assignor.)						
Draper, Tronson, Petrolia, Canada. Valve-facing tool	530,167	Dec. 4	152	40	69	1243
Draper, William B., Cambridge, Mass. Clasp	513,094	Jan. 23	2276	550	66	526
Draper, William F., Hopedale, Mass. Spindle and bearing	515,732	Feb. 27	2387	721	66	1443
Draper, William F., Hopedale, Mass. Spindle	515,733	Feb. 27	2389	721	66	1443
Draper, William F., assignor to G. Draper & Sons, Hopedale, Mass. Loom	517,269	Mar. 27	2575	603	66	1984
Drapery Fixture and Wood Carving Company. (See Clark and Shebesta, assignors.)						
Draver, Emil R., assignor to F. N. Draver, Alliance, Nebr. Dust-collector	521,604	June 19	1523	356	67	1504
Draver, Emil R., assignor to F. N. Draver, Alliance, Nebr. Bolting-reel	528,504	Oct. 30	3101	752	69	629
Draver, Emil R., assignor to F. N. Draver, Alliance, Nebr. Dust-collector	531,517	Dec. 25	2545	609	69	1727
Draver, Florence N. (See Draver, Emil R., assignor.)						
Drawbaugh, Daniel, Eberly's Mill, Pa., assignor to Pneumatic and Electric Tool Company, New York, N. Y. Pneumatic tool	530,934	Dec. 18	1488	352	69	1517
Drawbaugh, Daniel, Eberly's Mill, Pa., assignor, by mesne assignments, to F. Jones, Portsmouth, N. H., J. R. Bartlett and H. C. Andrews, New York, N. Y., trustees. Telephone	514,916	Feb. 20	1565	393	66	1181

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Dredge, Edgar, London, England. Door-check	527,053	Oct. 9	626	152	69	132
Dreese, John D., Halstead, Kans. Fish-spear	515,875	Mar. 6	225	53	66	1495
Dreger, Max, and A. Wratzke, Magdeburg, assignors to Grusonwerk, Magdeburg-Buckau, Germany. Time-fuse for shells	526,344	Sept. 18	1769	420	68	1502
Dreher, Charles L., Meriden, Conn. Device for closing breaks in elastic materials	513,990	Feb. 6	28	6	66	860
Dreher Manufacturing Company. (See Lichtenhein, Abraham, assignor.)						
Dreisbach, Stephen S., Catawissa, Pa. Dust-cloth holder or picture-hanger	512,688	Jan. 16	1595	383	66	328
Drescher, Luis, New York, N. Y. Electric battery	525,491	Sept. 4	286	71	68	1204
Dressel & Co., Geo. C. (See Kampf, Joseph, assignor.)						
Dressel, Frederick W., New York, N. Y. Rotatable signal-lamp	519,496	May 8	1009	244	67	743
Dressel, George C., New York, N. Y. Rotatable signal-lamp	527,054	Oct. 9	627	152	69	132
Dresser, Frederick, Chester, England. Rice-decorticator	516,479	Mar. 13	1225	293	66	1697
Drew, John W., <i>et al.</i> (See Duchemin, William, assignor.)						
Drew, Stephen C., assignor of three-tenths to C. E. Jackson, Boston, Mass. Telephone-transmitter	511,882	Jan. 2	267	61	66	52
Drew, Warren F., Sacramento, Cal. Car-coupling	526,303	Sept. 18	1708	402	68	1490
Drewett, William A., Brooklyn, N. Y. Valve device for duplex engines	518,025	Apr. 10	1014	255	67	203
Drewett, William A., Brooklyn, N. Y. Valve device	518,026	Apr. 10	1016	256	67	204
Dreys, Firm of H. (See Senner, Rudolf, assignor.)						
Dreyfuss, Isidor, New York, N. Y. Chuck for paper-box-covering machines	522,338	July 3	280	73	68	56
Dréze, Alfred, Pepinster, Belgium. Apparatus for dyeing	518,228	Apr. 17	1372	344	67	284
Driever, Benjamin F., and J. W. Mixon, Palmer, Tex. Switch-stand	525,454	Sept. 4	234	57	68	1194
Drinkwater, Frank, New York, N. Y. Hat-pin	511,762	Jan. 2	34	9	66	10
Drinkwater, Orlo H., Cedar Point, Kans. Wagon-bed-lifting apparatus	530,168	Dec. 4	153	40	69	1243
Druck, Jakob, Vienna, Austria-Hungary. Braiding-machine	521,019	June 5	474	113	67	1282
Droege, Max D., <i>et al.</i> (See Müller, Rudolf, assignor.)						
Dromgoole, Joseph P., Philadelphia, Pa. Safety-net	527,594	Oct. 16	1511	367	69	309
Drovedal, Gilbert, West Duluth, Minn. Plow	531,167	Dec. 18	1916	456	69	1594
Drucker, Nathan, Cincinnati, Ohio. Trunk	529,489	Nov. 20	1738	414	69	1002
Druen, Bernard D., New Haven, Conn. Making coach-steps	515,954	Mar. 6	347	82	66	1518
Druen, Bernard D., New Haven, Conn. Spring trace-post	527,595	Oct. 16	1513	367	69	309
Druen, Bernard D., New Haven, Conn. Coach-step	527,596	Oct. 16	1514	367	69	309
Drummond, Edwin M., assignor of one-half to J. O. Haddox, Louisville, Ky. Trolley-catcher	523,625	July 24	2509	630	68	514
Drummond, James A. (See Drummond, John T. and J. A.)						
Drummond, John T. and J. A., Greenville, Tenn. Plow	517,333	Mar. 27	2679	629	66	2005
Drummond, Thomas, Alton, Ill. Box	521,156	June 12	720	169	67	1341
Drummond, Ulysses G. (See Martin, Thomas N., assignor.)						
Druschky, Frank E., and L. A. Schjerling, Chicago, Ill. Manufacture of round leather belting	526,617	Sept. 25	2246	537	68	1602
Dry, Green M., Albemarle, N. C. Car-coupling	511,939	Jan. 2	360	84	66	68
Dryden, William, Brooklyn, N. Y. Fender for tram-cars	524,198	Aug. 7	396	94	68	734
Dryden, William, Brooklyn, N. Y. Marine velocipede	531,104	Dec. 18	1790	426	69	1571
Dryfoos, Alphons, New York, N. Y. Composite bottle	519,601	May 8	1201	290	67	778
Drysdale, Robert, Everett, Mass. Arc lamp	524,462	Aug. 14	864	212	68	837
Du Bois, Henry L., assignor of seven-sixteenths to M. H. Harrington and R. Boone, Philadelphia, Pa. Machine for compressing and curing timber	514,847	Feb. 13	1455	366	66	1146
Du Bois, John E. (See Miller and Du Bois.)						
Du Bois, Lewis. (See Le Grand, Melvin, assignor.)						
Du Bois, Nicholas. (See Frazier, Speulda, and Du Bois.)						
Du Bois, Rhesa G. (See Horton, Emmet, assignor.)						
Du Brul, Napoleon, Cincinnati, Ohio. End-opening wooden cigar-mold	530,403	Dec. 4	574	142	69	1320
Du Cros, Harvey. (See Welch, Charles K., assignor.)						
Du Marais, Marie E. B., Paris, France. Pumping	530,754	Dec. 11	1201	.....	69	1448
Du Pont, Francis G., Wilmington, Del. Drying nitrocellulose	516,924	Mar. 20	1977	465	66	1853
Du Pont, Francis G., Wilmington, Del. Manufacture of smokeless powder	519,702	May 15	1371	331	67	822
Du Pont, Francis G., Wilmington, Del. Smokeless explosive	522,978	July 17	1379	{ 343 } { 344 }	68	292
Duane, William M., and E. A. Peck, Indianapolis, Ind. Nut-lock	524,778	Aug. 21	1387	338	68	945
Dubbs, Jesse A., assignor of two-thirds to C. T. Russell, Allegheny, and J. H. White, Pittsburgh, Pa. Treatment of animal charcoal	526,180	Sept. 18	1486	348	68	1446
Dubelman, John, assignor of two-thirds to W. H. Ashwell and C. R. Robertson, Detroit, Mich. Oil-burner	528,292	Oct. 30	2735	660	69	564
Dubero, Fred., and P. Mohrdeck, San Francisco, Cal. Electric battery	521,260	June 12	903	213	67	1374
Dabeux, Georges A., London, England. Curved linotype and holder therefor	513,007	Jan. 16	2161	{ 513 } { 514 }	66	434
Dabiau, Paul, Marseilles, France. Steam-generator	522,517	July 3	584	{ 149 } { 150 }	68	115
Dabois, Louis E., Toronto, Canada. Life-saving guard for cars	527,270	Oct. 9	974	{ 236 } { 237 }	69	195
Dabnque Specialty Machine Works. (See Moseley, Charles S., assignor.)						
Daburn, Anthony M. (See Hamm and Daburn.)						
Duchemin, Edmund H., Newburyport, Mass. Fare-register for street-cars	523,660	July 31	2566	{ 642 } { 643 }	68	542
Duchemin, William, Newburyport, assignor to J. W. Drew, Boston, Mass. Copy-guide	519,762	May 15	1461	354	67	838
Duchemin, William, Newburyport, Mass., assignor of five-eighths to H. W. Blair, Manchester, N. H., and J. W. Drew, Boston, Mass. Method of and apparatus for winding cops to be used in sewing-machines	515,489	Feb. 27	2499	619	66	1366
Duckham, Frederic E., London, England. Delivery apparatus for pneumatic grain-conveyers	522,457	July 3	490	124	68	97
Duckham, Frederic E., London, England. Pneumatic grain-conveyer	522,458	July 3	492	{ 124 } { 125 }	68	98
Duckham, Frederic E., London, England. Conveying materials	528,417	Oct. 30	2048	713	69	601
Duckham, Frederic E., London, England. Grain-conveyer	528,418	Oct. 30	2049	714	69	601
Duckham, Frederic E., London, England. Pneumatic grain-conveyer	528,419	Oct. 30	2050	714	69	602
Duckham, Frederic E., London, England. Pneumatic apparatus for conveying grain	530,229	Dec. 11	1314	316	69	1470
Ducker, Maria E., <i>et al.</i> (See Ducker, William M., assignor.)						
Ducker, William M., New York, assignor to M. E. Ducker and H. D. Dament, Brooklyn, N. Y. Coin-controlled machine	519,701	May 15	1369	330	67	821
Duckett, Walter G., Washington, D. C. Label-holder	517,545	Apr. 3	912	48, 49	67	42
Dudley, Charles J., Mobile, Ala. Hydraulic elevator	518,491	Apr. 17	1824	452	67	366
Dudley, Elliott R., Lewis Run, assignor to P. B. Broughton, Bradford, Pa. Centrifugal screen	526,613	Sept. 25	2247	537	68	1603
Dudley, George B., assignor of one-half to T. B. Peacock, Topeka, Kans. Cartridge-pouch	516,967	Mar. 20	2047	484	66	1867

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Dndley, Job, and R. E. Gibson, Toronto, Canada. Ticket-punch.....	522,977	July 17	1377	343	63	292
Dndley, Plimmon H., New York, N. Y. Testing metal bars.....	517,975	Apr. 10	924	231	67	159
Dudly, Albert, Menominee, Mich. Nipple-wrench.....	520,562	May 29	2825	682	67	1121
Duechting, William, Chicago, Ill. Toy pistol.....	518,987	May 1	82	21	67	551
Duehmig, Dominic. (See Lash, William, assignor.)						
Duesberg-Delrez, Maurice, Verviers, Belgium. Apparatus for setting teeth in card-clothing.	526,564	Sept. 25	2162	517	68	1586
Dufault, Oza, Spencer, Mass. Armature connection for dynamos.....	514,817	Feb. 13	1400	352	66	1136
Duff Construction Company <i>et al.</i> (See Duff, John W., assignor.)						
Duff, Edward J., Glasgow, Scotland. Gas-producer.....	517,271	Mar. 27	2578	604	66	1985
Duff, James T., Pittsburg, Pa. Car-fender.....	524,316	Aug. 14	595	143	68	789
Duff, John T., Pittsburg, Pa. Centering gage for stamping-machines.....	516,432	Mar. 13	1147	274	66	1682
Duff, John T., Pittsburg, Pa. Car-brake.....	523,763	July 31	2768	687	68	577
Duff, John W., <i>et al.</i> (See Mewer, William J., assignor.)						
Duff, John W., assignor to W. J. Mewer and Duff Construction Company, Old Orchard, Me. Rotary support for hand-drills.....	529,023	Nov. 13	910	{ 215 216 }	69	831
Duff Manufacturing Company. (See Barrett, Josiah, assignor.)						
Duffin, George S., Cheneyville, Ill. Trace.....	523,771	Nov. 6	441	{ 107 108 }	69	727
Duffner, Lucas, assignor to J. O'Brien, St. Louis, Mo. Furnace-door.....	520,730	May 29	3108	753	67	1173
Duffy, Joseph, Terre Haute, Ind. Horse-boot.....	528,249	Oct. 30	2667	642	69	552
Duffy, Joseph, assignor to Taylor, Shaw & Cocker and Atherton Machine Company, Paterson, N. J., and W. G. Morrison, Willimantic, Conn. Organzine-spinner.....	525,192	Aug. 28	2129	519	68	1093
Dufresne, Napoleon, assignor of one-half to R. White, Montreal, Canada. Leather-skiving machine.....	519,282	May 1	614	149	67	656
Dugan, Herbert F., <i>et al.</i> (See Keithly, Willie C., assignor.)						
Dugan, Rees W., <i>et al.</i> (See Hodgson, Albert J., assignor.)						
Duggan, Nicholas S., assignor of one-half to A. D. Honeycutt, Gatesville, Tex. Car-coupling.....	526,102	Sept. 18	1357	313	68	1423
Duggan, Philip J. (See Krumscheid, Peter, assignor.)						
Duguid, John B., Toledo, Ohio. Means for switching from main to side tracks.....	515,823	Mar. 6	152	37	66	1481
Duguid, John B., Toledo, Ohio. Fastener for telescopic traveling-cases.....	526,829	Oct. 2	261	63	69	49
Duguid Saddlery Company. (See Withey, Ervin E., assignor.)						
Duhne, Henry, <i>et al.</i> (See Diers, Gerhard, assignor.)						
Dührkop, Fritz, New York, N. Y. Machine for shaping dough.....	518,942	May 1	13	3	67	539
Dührkop, Fritz, New York, N. Y. Baker's oven.....	525,736	Sept. 11	727	167	68	1296
Dührkop, Fritz, New York, N. Y. Machine for shaping and cutting dough.....	530,582	Dec. 11	912	{ 223 224 }	69	1398
Duisberg, Carl, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue dye.....	525,492	Sept. 4	287	.....	68	1205
Duisberg, Carl, and P. Ott, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Dyeing.....	523,809	July 31	2849	.....	68	593
Duket, John J., Toledo, Ohio. Cuff-holder.....	525,193	Aug. 28	2131	519	68	1093
Dulin, H. R. (See Dulin, William, assignor.)						
Dulin, William, assignor of one-half to H. R. Dulin, Avoca, Iowa. Hand seed-planter.....	521,763	June 19	1807	428	67	1557
Duljé, Eustache R., Newark, N. J. Shoe-lace fastener.....	526,830	Oct. 2	262	64	69	50
Dumbeck, Gustav A., Erie, Pa. Animal-trap.....	525,141	Aug. 28	2042	499	68	1079
Dumke, Franke F., assignor to W. H. Kirk, Milwaukee, Wis. Panoramic camera.....	523,336	July 24	2020	508	68	427
Dumm, Robert R., Upper Sandusky, Ohio. Grave-mound or flower-bed irrigator.....	524,433	Aug. 14	818	200	68	828
Dummer, Edward, Auburndale, Mass. Paper-feeding mechanism.....	517,518	Apr. 3	167	38	67	34
Dumont, Frederic F., <i>et al.</i> (See Fuller, Henry C., assignor.)						
Dumont, Henry D., <i>et al.</i> (See Ducker, William M., assignor.)						
Dunavan, Albert F., Harvey, Ill. Apparatus for shaping horse-collars.....	519,381	May 8	812	198	67	708
Dunbar, John H., Philadelphia, Pa. Securing teeth to cylinders.....	526,304	Sept. 18	1710	403	68	1490
Dunbar, John W., Indianapolis, Ind. Rotary plow.....	526,806	Oct. 2	225	55	69	42
Duncan, George L., Piqua, Ohio. Self-opening gate.....	521,524	June 19	1391	322	67	1481
Duncan, Robert E. (See Knight and Duncan.)						
Duncan, John H. H., assignor to Disc Churn Company, Limited, London, England. Churn.....	517,817	Apr. 3	667	167	67	129
Duncan, John L., <i>et al.</i> (See Markley, John A., assignor.)						
Duncan, Ransom J. (See Cotter, Holladay, and Duncan.)						
Duncan, Samuel Q., Greenfield, Ohio. Dough-raiser and fruit-drier.....	526,028	Sept. 18	1225	283	68	1400
Duncan, Samuel Q., assignor to Columbian Manufacturing Company, Greenfield, Ohio. Brooder.....	518,003	Apr. 10	984	245	67	198
Duncan, Samuel Q., assignor to Columbian Manufacturing Company, Greenfield, Ohio. Incubator.....	520,181	May 22	2185	{ 532 533 }	67	986
Duncan, Thomas, Fort Wayne, Ind. Universal-phase alternate-current motor.....	518,310	Apr. 17	1499	{ 375 376 }	67	307
Duncan, Thomas, Fort Wayne, Ind. Electric meter.....	518,311	Apr. 17	1503	{ 376 377 }	67	307
Duncan, Thomas, Fort Wayne, Ind. Electric meter.....	523,704	July 31	2661	{ 660 661 }	68	558
Duncan, Walter E., Philadelphia, Pa. Stand-boiler for heating water.....	523,738	July 31	2725	675	68	569
Duncan, William E. (See Putrow, John B., assignor.)						
Duncker, William F., Steelton, Pa. Trolley.....	511,763	Jan. 2	35	9	66	10
Duncker, William F., Steelton, Pa. Intestine-cleaner.....	525,455	Sept. 4	236	58	68	1194
Duncker, William F., assignor to J. Shaar, Steelton, Pa. Car-fender.....	529,370	Nov. 20	1524	365	69	964
Duncan, William J., Philadelphia, Pa. Percussion-fuse for projectiles.....	523,110	July 17	1612	404	68	337
Dunham, Eugene, <i>et al.</i> (See Bright, William H., assignor.)						
Dunham, Frank A., Brockton, Mass. Welt-trimmer.....	522,786	July 10	1068	264	68	217
Dunham, Frank A., Brockton, Mass. Welt-trimmer.....	527,950	Oct. 23	2126	510	69	438
Dunham, George, Unionville, Conn. Machine for polishing or edging nuts.....	515,754	Mar. 6	33	10, 11	66	1461
Dunham, George, Unionville, Conn. Nut-finishing machine.....	521,233	June 12	853	{ 200 201 }	67	1365
Dunham, Harry E., assignor of one-half to A. T. Bliss, Saginaw, Mich. Dinner-pail cover.	519,809	May 15	1544	377	67	854
Dunham, Peter B., <i>et al.</i> (See Bright, William H., assignor.)						
Dunham, Samuel E., Danbury, Conn. Expanding hat-block.....	531,518	Dec. 25	2547	{ 609 610 }	69	1728
Dunish, Adolf, Ravenna, Ohio. Electric fire-alarm transmitter.....	519,497	May 8	1009	244	67	743
Dunke, August C. (See Dunke, August F. and A. C.)						
Dunke, August F. and A. C., Milwaukee, Wis. Bottle-washer.....	530,583	Dec. 11	913	224	69	1398
Dunkel, Louis P. (See Brnst, Reinhard, and Dunkel.)						
Dunkle, Abraham B., Steelton, Pa. Window-shade fixture.....	513,610	Jan. 30	3141	771	66	726
Dunkle, Abraham B., Steelton, Pa. Window-shade holder.....	521,784	June 26	1843	439	67	1581
Dunkle, Abraham B., Steelton, Pa. Curtain-fixture.....	531,519	Dec. 25	2550	610	69	1728

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Dunkle, Allen H., East Berkley, Pa. Vapor-condenser.....	530,300	Dec. 4	395	100	69	1287
Dunklee, Delano D. (See Lesure and Dunklee.)						
Dunlap, Enoch L. (See Long, J. Milton, assignor.)						
Dunlap, Forest W. (See Smiley and Dunlap.)						
Dunlap, George A. (See Smith, Alfred B., assignor.)						
Dunlap, Horace L., Topeka, Kans. Car-coupling.....	523,626	July 24	2511	630	68	515
Dunlap, John S., Peoria, Ill. Coffee-pot.....	520,039	May 22	1919	470	67	938
Dunlap, William, assignor of one-half to E. M. Reinhardt, San Diego, Cal. Car-coupling.....	518,492	Apr. 17	1826	453	67	366
Dunlap, William A. (See Silverstein, Samuel, assignor.)						
Dunlap, William A., Pittsburg, Pa. Top.....	526,305	Sept. 18	1711	403	68	1490
Dunlap, William A., Pittsburg, Pa. Nutmeg-grater.....	527,537	Oct. 23	1907	459	69	398
Dunlevy, Charles E. S., Oakland, Cal. Chimney.....	515,860	Mar. 6	205	48	66	1491
Dunlop, John B., Sr., and John B., Jr., Dublin, Ireland; said Dunlop, Jr., assignor to said Dunlop, Sr. Pneumatic tire.....	523,270	July 17	1900	478	68	388
Dunn, Broad. (See Hardy and Dunn.)						
Dunn, Francis M. (See King and Dunn.)						
Dunn, Gano S., New York, N. Y., assignor to Crocker-Wheeler Electric Company, of New Jersey. Electric motor.....	515,755	Mar. 6	35	11	66	1461
Dunn, George W. (See Field, Thaddius S., assignor.)						
Dunn, James H., et al. (See Phillips, Thomas E., assignor.)						
Dunn, Lawrence, Pacific, Mo. Hitching-clamp.....	513,768	Jan. 30	3401	839	66	773
Dunn, Louis, Minneapolis, Minn. Safety device for point-switches.....	524,273	Aug. 7	510	119	68	753
Dunn, William, Philadelphia, Pa. Machine for making nut-fasteners.....	531,305	Dec. 25	2169	519	69	1656
Dunn, William R., Alton, Ind. Felly-planer.....	517,334	Mar. 27	2681	629 } 630 }	66	2005
Dunning, Elisha, assignor of one-fourth to A. McDonald, Minneapolis, Minn. Fire-escape.....	523,978	Aug. 7	18	5	68	066
Dunniug, Robert A., Bath, Me. Letter-weighing scale.....	524,273	Jan. 2	735	178	66	140
Dunshee, Bertram H. (See Foley, Dunshee, and Anderson.)						
Dunton, Charles H., San Francisco, Cal. Faucet.....	525,948	Sept. 11	1086	248	68	1361
Dunwiddie, Ezra N., Brodhead, Wis. Reel-carrier.....	526,692	Oct. 2	36	9	69	9
Duperou, Angelo R., San Francisco, Cal. Registering apparatus for telephones.....	511,883	Jan. 2	270	62	66	53
Duplex Printing Press Company. (See Cox, Joseph L., assignor.)						
Duplissia, Joseph L. (See Ryan, George F., assignor.)						
Dupont-Dennis, Gabriel, Nantes, France. Preserving vegetables.....	517,267	Mar. 27	2573	603	66	1984
Durand, David L., Birmingham, Conn. Suspender-buckle.....	521,084	June 5	593	140	67	1304
Durand, Huguenin & Co., L. (See Bierer and De la Harpe, assignors.)						
Durand, Huguenin & Co., L. (See Brack, Johann J., assignor.)						
Durand Manufacturing Company. (See Blackford, Atwell J., assignor.)						
Durfee, Bradford K., et al. (See Hartley, Charles J., assignor.)						
Durfee, Edgar G. (See Gibson, Everett G., assignor.)						
Durfee, Sarah A., Decatur, Ill. Hand packing-case.....	524,463	Aug. 14	866	212 } 214 }	68	837
Durfee, Walter H., Providence, R. I., assignor to United States Tubular Bell Company, Methuen, Mass. Ringing mechanism for bells.....	516,085	Mar. 6	570	133	66	1559
Durring, Harry P., St. Louis, Mo. Adjustable coffee-pot attachment.....	528,594	Nov. 6	127	30	69	669
Dürstlein, Johannes, Dresden, Germany. Watchcase.....	521,210	June 12	813	191	67	1357
Durst, Jacob, Red Lodge, Mont. Stamp or envelope moistener.....	513,488	Jan. 30	2930	721	66	687
Durst, Murray H., Wheatland, Cal. Cartridge-stop for rimless cartridges.....	514,450	Feb. 13	780	200	66	1018
Durst, Murray H., Wheatland, Cal. Cartridge-stop for rimless cartridges.....	514,451	Feb. 13	783	200	66	1019
Durst, Murray H., Wheatland, Cal. Cartridge-holder.....	523,886	July 31	2988	744	68	619
Durst, Murray H., Wheatland, Cal. Stop for rimless cartridges.....	523,979	Aug. 7	20	5	68	666
Duryea, Jacob W. and W. C., Blawenburg, N. J. Corn-planter and fertilizer-distributor.....	531,105	Dec. 18	1792	427	69	1571
Duryea, Louis T. (See Yerby, Ross B., assignor.)						
Duryea, William C. (See Duryea, Jacob W. and W. C.)						
Dushane, James, South Bend, Ind. Pencil-sharpener.....	516,701	Mar. 20	1612	384	66	1785
Dustrud, Julius. (See Dustrud, Peter P. and J.)						
Dustrud, Peter P. and J., Sacred Heart, Minn. Cutter attachment for forks.....	517,796	Apr. 3	635	159	67	123
Dutcher Temple Company. (See Pearson, Robert P., assignor.)						
Dutcher, William L., Rome, assignor to P. D. Randall & Son, Troy, N. Y. Bolt-cutter....	517,848	Apr. 10	716	180	67	153
Dutchess Tool Company. (See Van Houten, Frank H., assignor.)						
Duthie, William E., Indianapolis, Ind. Cigar-tip cutter and lighter.....	514,647	Feb. 13	1119	280	66	1082
Dutton, Charles S. (See Haas and Dutton.)						
Dutton, Rufus, Yonkers, N. Y. Grinding-machine.....	521,646	June 19	1594	373	67	1518
Dutton, Rufus, New York, N. Y. Whetstone.....	528,772	Nov. 6	442	108	69	727
Dutton, Samuel T., Worcester, England. Interlocking lever for railway signaling.....	511,884	Jan. 2	271	62	66	53
Dutton, William A., and J. F. Pfetich, Cleveland, Ohio. Motor-car truck.....	517,565	Apr. 3	243	56, 57	67	42
Duval, Charles F., Boston, Mass. Automatic railway-switch.....	528,867	Nov. 6	637	151	69	763
Duval, Jennie P., Richmond, Mo. Fruit-drier.....	512,100	Jan. 2	619	149	66	119
Duvivier, Louis J. M., Nevers, France. Movable keyboard.....	522,048	June 26	2315	555 } 556 }	67	1669
Dvorkovitz, Paul, London, England. Apparatus for the manufacture of gas.....	512,950	Jan. 16	2071	491	66	417
Dwight, A. N., et al. (See Tabor, Byron D., assignor.)						
Dwight Slate Machine Company. (See Corel, Frank B., assignor.)						
Dwyer, John A., Paterson, N. J. Adjustable bracket for shade or other rollers.....	527,951	Oct. 23	2127	510	69	439
Dyas, Webster M., Arlington Heights, Ill. Hot-air-register.....	532,200	July 3	30	8	68	8
Dyas, Webster M., Arlington Heights, Ill. Register.....	525,887	Sept. 11	1002	226	68	1346
Dyball, Ernest E., Salem, Ohio. Magazine cane-gun.....	522,886	July 10	1200	299 } 300 }	68	243
Dye, Benjamin H. (See Patterson and Anderson, assignors.)						
Dyer, Alonzo, Odessa, Mo. Cultivator attachment.....	514,917	Feb. 20	1568	393	66	1181
Dyer, Frank L., assignor of two-thirds to L. H. Dyer, Washington, D. C., and A. McDougall, Duluth, Minn. Electric steering-gear.....	515,286	Feb. 20	2156	536 } 537 }	66	1291
Dyer, Frank L., Washington, D. C., assignor to W. F. Jobbins and J. Van Ruyambeke, Chicago, Ill. Purifying fixed oils, fats, and fatty acids.....	522,156	June 26	2498	599	67	1704
Dyer, Frank L., Washington, D. C., assignor to W. F. Jobbins and J. Van Ruyambeke, Chicago, Ill. Apparatus for preparing expanded and reheated steam.....	522,157	June 26	2499	600	67	1704
Dyer, Harry, and W. H. Bingham, assignors to St. Cloud Vulcanized Fibreware Company, St. Cloud, Minn. Machine for making hollow ware.....	526,693	Oct. 2	37	9, 10	69	10
Dyer, Leonard H., et al. (See Dyer, Frank L., assignor.)						
Dymacek, Frank, Chicago, Ill. Fire-escape.....	526,355	Sept. 25	1861	442 } 443 }	68	1532
Dysert, Daniel. (See Cherry and Dysert.)						
Dyson, James, and R. H. Williamson, Ashton-under-Lyne, England. Archimedean screw....	525,194	Aug. 28	2132	520	68	1093

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Dyson, Joseph, Cleveland, Ohio. Railway-tie	516,001	Mar. 6	434	100	66	1533
E. Howard Watch and Clock Company. (See Learned, William B., assignor.)						
E. Howard Watch and Clock Company. (See Learned and Mosher, assignors.)						
E. & H. T. Anthony & Company. (See Lewis, William H., assignor.)						
E. & H. T. Anthony & Company. (See Roche, Thomas C., assignor.)						
E. J. Brooks & Company. (See Brooks, Edward J., assignor.)						
E. Kirstein's Sons Company. (See Beek, William G., assignor.)						
E. P. Gleason Manufacturing Company. (See Konetshny, John R., assignor.)						
E. T. Allen Company. (See Carson and Martin, assignors.)						
E. & T. Fairbanks & Company. (See Gagnon, Thomas, assignor.)						
E. & T. Fairbanks & Company. (See Paddock, Harvin, assignor.)						
E. & T. Fairbanks & Company. (See Paddock and Johnson, assignors.)						
E. & T. Fairbanks & Company. (See Wheeler, William A., assignor.)						
E. W. Bliss Company. (See Leavitt, Frank M., assignor.)						
Eagan, Edward E., <i>et al.</i> (See Davis, Riley L., assignor.)						
Eager, Frank L., Meriden, Conn. Driving mechanism for cycles	520,638	May 29	2943	711	67	1143
Eagle Cotton Gin Company. (See Gammons, Ferdinand C., assignor.)						
Eagle Cotton Gin Company. (See Rollins, George L., assignor.)						
Eagle, John. (See Eagle, Robert M. and J.)						
Eagle Lock Company. (See Roche, James, assignor.)						
Eagle Manufacturing Company. (See Einfeldt, Emil, assignor.)						
Eagle Manufacturing Company. (See Henderson, Norman O., assignor.)						
Eagle Pencil Company. (See McIntyre, Frank, assignor.)						
Eagle Pencil Company. (See Oberbeck, George, assignor.)						
Eagle Pencil Company. (See Sandell, Gustav R., assignor.)						
Eagle, Robert M. and J., Kansas City, Kans. Hog-conveyer and throw-out for scalding-vats	529,483	Nov. 20	1740	414	69	1002
Eakright, William O. (See Boots and Eakright.)						
Eames, Frederick W. (See Murray and Eames.)						
Eames, Henry H., assignor to J. M. Nicol, trustee, Detroit, Mich. Treating ores	529,441	Nov. 20	1667	397	69	989
Earl, David, and A. Goodman, Ashland, Ky. Can-opener	515,663	Feb. 27	2777	691	66	1422
Earl, Harvey C. (See Russell and Earl.)						
Earl, James C. (See Sanderson and Earl.)						
Earl, John S., <i>et al.</i> (See Demmick, George W., assignor.)						
Earle, William, Philadelphia, Pa. Chimney cap and ventilator	527,199	Oct. 9	848	{ 206 207 }	69	173
Earll, Charles I., New York, N. Y. Grip mechanism for cable railways	520,259	May 22	2320	{ 562 563 }	67	1010
Earnist, Cyrus C., assignor of one-half to R. D. McCook, Riceville, Iowa. Coin holding and delivering device	522,933	July 10	1298	324	68	261
Easingwood, Arthur L., assignor of one-half to J. H. Brown, Clinton, N. Y. Change-gear mechanism for bicycles	514,452	Feb. 13	784	201	66	1019
Easley, John L., New York, N. Y. Keyhole-guide	516,086	Mar. 6	571	133	66	1559
East Coast Manufacturing Company. (See Moorhouse, Henry, assignor.)						
Eastern Paper Bag Company. (See Purvis, William B., assignor.)						
Eastern Plaster Board Company of New Jersey. (See Keppler, Fredrick, assignor.)						
Eastes, William T., Muncie, Ind. Medical case	512,101	Jan. 2	620	149	66	119
Easting, Eugene M., assignor to N. Gentry, Denver, Colo. Device for tightening woven-wire bed-springs	517,818	Apr. 3	668	167	67	129
Eastman, H. L. (See Paulson, Soren C., assignor.)						
Eastman Kodak Company. (See Prestwich, William H., assignor.)						
Eastman, William E. (See Manwaring, Morris B., assignor.)						
Eastmond, Aaron H. (See Long, Joseph A., assignor.)						
Easton & Burnham Machine Company. (See Easton, Nicholas H., assignor.)						
Easton & Burnham Machine Company. (See Parker, John M., assignor.)						
Easton, Nicholas H., Central Falls, assignor to Easton & Burnham Machine Company, Pawtucket, R. I. Bobbin-holder for spooling-machines	530,492	Dec. 4	738	180	69	1349
Eastwood, James N., Kansas City, Mo. Hay-press	526,441	Sept. 25	1977	{ 471 472 }	68	1553
Eastwood Wire Manufacturing Company. (See Frisbie, Henry R., assignor.)						
Eaton, Edwin D., Fairfield, Mass. Supporting device for bicycles	515,664	Feb. 27	2777	{ 691 692 }	66	1422
Eaton, Frank W., Ness City, Kans. Windmill	514,848	Feb. 13	1457	366	66	1147
Eaton, Henry W., New York, N. Y. Car-fender	525,592	Sept. 4	457	109	68	1236
Eaton, Norman, Hopedale, Mass. Combined steam and gas generator and engine	517,606	Apr. 3	307	71, 72	67	60
Eaton, Paul. (See Bolles, Frank G., assignor.)						
Ebeling, Fred, Linn, Kans. Machine-gun	531,168	Dec. 18	1917	{ 456 457 }	69	1594
Eberhard, John J., and C. G. Schimkatt, Fremont, Ohio, assignors to United States Electric Lamp Lighter Company, Detroit, Mich. Electric cigar-lighter	522,934	July 10	1300	324	68	261
Eberhardt, Henry E. (See Eberhardt, Ulrich and H. E.)						
Eberhardt, Ulrich and H. E., Newark, N. J. Multiplex gear-cutter	515,906	Mar. 6	272	63, 64	66	1504
Eberhart, William A., Asbury Park, N. J. Flushing apparatus	516,092	Mar. 6	436	100	66	1533
Eberle, Christina, Chicago, Ill. Ash-screener	519,246	May 1	557	135	67	645
Eberley, John C., Whitesborough, N. Y. Siphon water-distributing system	529,547	Nov. 20	1858	442	69	1023
Ebert, Frederick. (See Reyels and Ebert.)						
Ebert, Frederick J., Philadelphia, Pa. Folding crib	523,337	July 24	2022	508	68	427
Ebling, Charles F., Callensburg, Pa. Tea-kettle	523,627	July 24	2513	630	68	515
Eby, John D. (See Elvidge, Charles, assignor.)						
Ecaubert, Frederic. (See Wilhelm and Ecaubert.)						
Ecaubert, Frederic, Brooklyn, N. Y. Making dies for watchcase-centers	514,648	Feb. 13	1121	280	66	1062
Ecaubert, Frederic, Brooklyn, N. Y. Tool for ornamenting watchcases	517,686	Apr. 3	460	111	67	88
Ecaubert, Frederic, Brooklyn, N. Y. Mechanism for making spectacle-bows	518,099	Apr. 10	1137	286	67	224
Ecaubert, Frederic, Brooklyn, N. Y. Means for forming spectacle-bow wire or other articles	518,807	Apr. 24	2380	589	67	478
Eccleston, S. Spencer, Canastota, N. Y. Toy	530,584	Dec. 11	916	224	69	1399
Echert, William H., New York, N. Y. Transmission of rapidly-alternating electric currents	512,102	Jan. 2	621	150	66	119
Echols, Frank G., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Oil-indicator for lamp-reservoirs	531,106	Dec. 18	1797	428	69	1572
Eck, James L., Reading, Pa. Circular-knitting machine	523,111	July 17	1614	405	68	337
Eckardt, Herman, assignor to Combination Collar Company, Brooklyn, N. Y. Combined horse-collar and hames	528,868	Nov. 6	638	152	69	763
Eckel, Charles E., Syracuse, N. Y. Tool for turning lock-seams upon metal sheets	511,764	Jan. 2	37	10	66	10

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Eckel, Peter, Syracuse, N. Y. Rolls for side-bearing suspension-rails	517,687	Apr. 3	462	111	67	89
Eckels, William, Mechanicsburg, Pa. Metallic burial-vault cover	527,238	Oct. 9	918	221	69	186
Eckert, Friedrich, Stuttgart, Germany. Lasting-pinchers	526,345	Sept. 18	1771	420	68	1502
Eckhardt, Heinrich, Dortmund, Germany. Slide-rest for lathes	516,678	Mar. 20	1578	{ 375 376 }	66	1779
Eckley, Henry A., Bromyard, England. Apparatus for raising or lowering heavy loads...	526,694	Oct. 2	39	10, 11	69	10
Eckley, John, and J. C. Strickland, Wallaceton, Pa. Fire-escape	521,707	June 19	1694	{ 397 398 }	67	1538
Eckley, John L. (See Fraley, George B., assignor.)						
Eckstein, William, London, England. Metallic lathing	514,313	Feb. 6	586	146	66	963
Eckman, Peter, Syracuse, Kans. Carpet-fastener	530,096	Dec. 4	34	9	69	1221
Eclipse Bicycle Company. (See Morrow, Alexander P., assignor.)						
Eclipse Office Furniture Company of the City of Ottawa. (See Gottwals, William O., assignor.)						
Economic Machine Company. (See Sagne, George, assignor.)						
Economic Sanitary Company. (See Storer, Jacob J., assignor.)						
Economical Gas Apparatus Construction Company. (See Merrifield, Leonard L., assignor.)						
Economy Feed Water Heater Company. (See McDaniel, Charles W., assignor.)						
Eddings, Joseph E., et al. (See Grisham, Wiley M., assignor.)						
Eddishaw, Henry, Philadelphia, Pa. Box-lifter	525,949	Sept. 11	1087	248	68	1361
Eddy, Benjamin W., Eastlake, Ala. Gate-closing device	516,802	Mar. 20	1763	417	66	1812
Eddy, Benjamin W., Eastlake, Ala. Composition for artificial stone	531,520	Dec. 25	2552		69	1729
Eddy, Charles W., Ware, assignor, by mesne assignments, to Blair Camera Company, Boston, Mass. Photographic-camera shutter	512,671	Jan. 9	1558	374	66	307
Eddy, Frederick W., et al. (See Weber, Theodore A., assignor.)						
Eddy, Henry W. (See Loomer and Belmer, assignors.)						
Eddy, John S., assignor of one-half to M. Smith, Denver, Colo. Steel-spring tire	530,888	Dec. 11	1409	335	69	1487
Edelhelm, Carl. (See Osborne, John W., assignor.)						
Edelman, Louis, Detroit, Mich. Apparatus for sterilizing or cooking	513,899	Jan. 30	3607	889	66	815
Eden, John R. (See Gross, David G., assignor.)						
Edens, George F., and J. B. Brewer, Xenia, Ohio. Duplex electric-arc lamp	521,434	June 12	1210	287	67	1432
Ederle, Wendel, Hopkins, Mich. Feed-trough	512,368	Jan. 9	1053	257	66	210
Edey, Alfred S., Des Moines, Iowa. Car-coupling	526,011	Sept. 11	1194	{ 273 274 }	68	1381
Edey Automatic Car Coupler Company. (See Edey, Charles E. C., assignor.)						
Edey, Charles E. C., assignor to Edey Automatic Car Coupler Company, Des Moines, Iowa. Car-coupling	512,507	Jan. 9	1308	316	66	258
Edgar, Charles, Wausau, Wis. Sawmill	524,135	Aug. 7	288	67	68	714
Edgar, Dennis P., Jackson, Mich. Washing-machine	520,771	June 5	18	4	67	1199
Edgar, Ellis F., Woodbridge, N. J. Steam-boiler	528,930	Nov. 13	760	178	69	806
Edgar, Isaiah E., Brooklyn, N. Y. Cabinet and index-file	529,251	Nov. 13	1307	314	69	903
Edgar, Joseph M., assignor of one-half to J. Z. Roraback, Kansas City, Mo. Indicator-lock	512,169	Jan. 2	736	178	66	140
Edgar, Thomas S., and C. E. Williams, assignors to Hasker & Marcuse Manufacturing Company, Richmond, Va. Machine for expanding tin boxes	517,738	Apr. 3	546	{ 131 132 }	67	106
Edgar, William, Sanford, Fla. Molding-machine	517,737	Apr. 3	544	131	67	105
Edgar, William B. (See McFarlane and Edgar.)						
Edge, John S., Kurten, Tex. Plow	517,215	Mar. 27	2492	586	66	1969
Edgerton, Charles, Philadelphia, Pa. Separator for steam-boilers	526,919	Oct. 2	423	104	69	79
Edgren, Erik A., New York, N. Y. Keyboard for musical instruments	520,982	June 5	417	99	67	1272
Edie, Gifford D. N., Minneapolis, Minn. Potato-digger	513,769	Jan. 30	3402	839	66	773
Edison Electric Light Company. (See Edison, Thomas A., assignor.)						
Edison General Electric Company. (See Brown, Harold P., assignor.)						
Edison General Electric Company. (See Gould, Frederick D., assignor.)						
Edison, Thomas A. (See Kennelly, Arthur E., assignor.)						
Edison, Thomas A., Llewellyn Park, N. J. Phonograph	513,095	Jan. 23	2276	550	66	526
Edison, Thomas A., Llewellyn Park, N. J. Method of and apparatus for mixing materials	513,096	Jan. 23	2278	551	66	526
Edison, Thomas A., Llewellyn Park, N. J. Phonograph	513,097	Jan. 23	2279	551	66	527
Edison, Thomas A., Llewellyn Park, N. J. System of electrical distribution	524,378	Aug. 14	723	175	68	810
Edison, Thomas A., Llewellyn Park, N. J. Manufacture of carbon filaments	525,007	Aug. 28	1796	441	68	1035
Edison, Thomas A., Menlo Park, N. J. Plating one material with another	526,147	Sept. 18	1435	{ 335 336 }	68	1437
Edison, Thomas A., Menlo Park, N. J., assignor to Western Union Telegraph Company, New York, N. Y. Sextuplex telegraph	512,872	Jan. 16	1938	{ 459 460 }	66	394
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Regulator for dynamo-electric machines	524,136	Aug. 7	291	68	68	715
Edison, Thomas A., Menlo Park, N. J., assignor to Edison Electric Light Company, New York, N. Y. Manufacture of carbons for electric lamps	525,888	Sept. 11	1004	226	68	1346
Edmiston, Theodric G., et al. (See Kaldreider, William H., assignor.)						
Edmonds, Charles S., assignor to W. H. and L. Sendker, Bradford, Pa. Hydrocarbon-burner	522,158	June 26	2500	{ 600 601 }	67	1704
Edmonds, David M., Derrick City, Pa. Adjuster for snicker-rods	529,322	Nov. 13	1432	344	69	927
Edmonds, David M., Derrick City, Pa. Adjuster for snicker-rods	529,323	Nov. 13	1432	345	69	927
Edmonds, John P., and J. A. Kyle, Scottsborough, Ala. Clothes-rack attachment for bedsteads	528,650	Nov. 6	248	62	69	691
Edmonds, Joseph S., Eagleville, Tenn. Animal-releasing device	520,395	May 22	2541	614	67	1054
Edmondson, John N., Plant City, Fla. Double clothes-pin	516,390	Mar. 13	1081	257	66	1669
Edmunds, Joel B., Manchester, Iowa. Barber's bottle	517,849	Apr. 10	717	181	67	153
Edmunds, King C., Calcutta, India. Ice-cream freezer	527,483	Oct. 16	1330	324	69	277
Edmunds, William H., Washington, D. C. Hermetically-sealed can	523,764	July 31	2768	687	68	577
Edsall, William H., Brooklyn, N. Y. Curtain-rod	519,840	May 15	1590	389	67	863
Edson, Jacob. (See Goodspeed and Edson.)						
Educational Toy Company. (See McGrath, Timothy W., assignor.)						
Edward Miller & Company. (See Langston, Thomas, assignor.)						
Edward Miller & Company. (See Miller, Edward, Jr., assignor.)						
Edward Miller & Company. (See Pitel, Conrad M., assignor.)						
Edward, John C., assignor to F. H. Hill Company, Chicago, Ill. Casket-fastener	525,842	Sept. 11	927	207	68	1332
Edward P. Allis Company. (See Gray, William D., assignor.)						
Edward P. Allis Company. (See Hinkley, George M., assignor.)						
Edward P. Allis Company. (See Reynolds, Irving H., assignor.)						
Edwards, Alonzo L. (See Hobbs and Edwards.)						
Edwards, Arthur, Willow Springs, Mo. Nut-lock	526,996	Oct. 2	531	130	69	100
Edwards, Charles, Fagg's Manor, Pa. Hearse	521,647	June 19	1595	373	67	1518

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Edwards, Daniel R., Saginaw, Mich. Wood-cutting machine	524,274	Aug. 7	513	119	68	754
Edwards, Evan A., and J. De Neal, Toledo, Ohio; said De Neal assignor of one-fourth to W. H. Laird, Toronto, Canada. Apparatus for atomizing petroleum-oil for vapor fuel ...	512,170	Jan. 2	738	179	66	141
Edwards, George E., assignor of one-fourth to W. Hartwell, Brantford, Canada. Danger-signal and lock for switches	531,025	Dec. 18	1654	392	69	1546
Edwards, George G. (See Brackelsberg and Edwards.)						
Edwards, Hubert F., Butte, assignor of five-sixths to C. H. Hand, Pony, Mont., A. W. Hand, Silver City, N. Mex. Ter., J. G. Merrill, G. H. Smith, and I. S. Merrill, Butte, Mont. Method of and apparatus for amalgamating ores	518,543	Apr. 17	1917	474	67	382
Edwards, John C. (See Martin, Morris, assignor.)						
Edwards, John J., Grand Rapids, Mich., assignor to S. F. and A. A. Bowser, Fort Wayne, Ind. Screw-driver	520,519	May 29	2748	665	67	1106
Edwards, Joseph E., Toronto, Ohio. Vitrified fire-clay sewer-pipe joint	515,119	Feb. 20	1873	470	66	1237
Edwards, Joseph E., Toronto, Ohio. Underground conduit	527,597	Oct. 16	1515	368	69	309
Edwards, Robert. (See Lungen, Adam, assignor.)						
Edwards, W. Fitz-Hugh. (See Church, Frank S., assignor.)						
Edwards, William F. H. (See Church, Frank S., assignor.)						
Edwards, William H., DuBois, Nebr. Car-coupling	528,466	Oct. 30	3040	738	69	618
Edwards, Willie M., Atlanta, Ga. Automatic air-brake coupling	527,338	Oct. 23	1908	459	69	398
Eells, Sidney O., Joplin, Mo. Wagon-tongue support	513,900	Jan. 30	3608	889	66	815
Efinger, August, and W. H. Metzger, Canton, Ohio. Pruning-shears	530,221	Dec. 4	257	63	69	1262
Efranson, Carl, assignor of one-half to E. Wiedenbeck, Minneapolis, Minn. Folding-machine	519,058	May 1	191	45	67	573
Egan, Charles E., Chicago, Ill. Fire-alarm attachment	512,672	Jan. 9	1560	374	66	307
Egan, Thomas A., Jersey City, N. J. Pneumatic tire for wheels	518,229	Apr. 17	1373	344	67	284
Egan, Thomas L. (See Hornor and Egan.)						
Egan, William J., Milwaukee, Wis. Stereotyping-press	526,148	Sept. 18	1437	336	68	1437
Ege, Alexander H. (See Richardson, John T., assignor.)						
Egedal, Hans P., Thor, Iowa. Combined blind and ventilator	514,918	Feb. 20	1569	394	66	1182
Eggeling, Fredrick W., St. Louis, Mo. Butter-mold	520,917	June 5	303	74	67	1252
Eggeman, Godfrey S., Toledo, Ohio. Collar and cuff holder for luggage-carriers	513,770	Jan. 30	3404	839	66	774
Eggeman, Godfrey S., Toledo, Ohio. Trunk	522,318	July 3	246	65	68	49
Egger, Ernst. (See Wessel and Egger.)						
Egger, Ernst, and F. A. Wessel, assignors of one-fourth to A. Naumburg, New York, N. Y. Armature	518,312	Apr. 17	1510	377	67	308
Egger, Ernst, and F. A. Wessel, assignors of one-fourth to A. Naumburg, New York, N. Y. Railway-truck	518,313	Apr. 17	1511	378	67	308
Egger, Ernst, and F. A. Wessel, assignors of one-fourth to A. Naumburg, New York, N. Y. Automatic belt-regulator	518,314	Apr. 17	1512	378	67	308
Egger, Ernst, and F. A. Wessel, assignors of one-fourth to A. Naumburg, New York, N. Y. Means for controlling electric locomotives	531,366	Dec. 25	2280	543 544	69	1673
Eggers, Anton C. (See Eggers, William, assignor.)						
Eggers, William, assignor to A. C. Eggers, Brooklyn, N. Y. Atomizer	519,498	May 8	1010	244	67	743
Eggert, Edward A., Buffalo, N. Y. Screw-driver	515,327	Feb. 27	2240	555	66	1318
Eggert, Ernst, Saginaw, Mich. Combined chair and step-ladder	511,537	Jan. 2	143	36	66	30
Eggert, Joachim, Burg, Femern, Germany. Invalid-bed	513,310	Jan. 23	2627	637	66	596
Egner, Isaac L., Philadelphia, Pa. Ice-shaver	525,195	Aug. 28	2132	520	68	1093
Eery, William L., Dayton, Ohio. Autographic register	518,230	Apr. 17	1374	344	67	284
Ehlert, Charles O., New York, N. Y. Conduit-cleaning device	524,434	Aug. 14	819	200	68	823
Ehrenberg, Theodor, New York, N. Y. Loom-batten	512,171	Jan. 2	739	179	66	141
Ehrenberg, Theodor, New York, N. Y. Harness-elever mechanism for looms	512,172	Jan. 2	739	179 180	66	141
Ehrhardt, Heinrich, Dnsseldorf, Germany. Cold-sawing apparatus	530,639	Dec. 11	1014	247	69	1415
Ehrlich, Leo, St. Louis, Mo. Fare-register	523,930	July 31	3061	764 765	68	632
Ehrlich, Leo, St. Louis, Mo., assignor to National Cash Register Company, Dayton, Ohio. Mechanical movement for calculating-machines	520,040	May 22	1920	471	67	939
Ehrlich, Leo, St. Louis, Mo., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator	520,672	May 29	3011	728 729 730	67	1155
Ehrlicher, Charles, Watertown, N. Y. Lagging for boilers and pipes	517,850	Apr. 10	719		67	153
Ehrlicher, Charles, Watertown, N. Y. Fireproof sheathing	517,851	Apr. 10	719		67	153
Ehrlicher, Charles, Watertown, N. Y. Covering for pipes and boilers	517,852	Apr. 10	720		67	153
Eiben, Henry, New York, N. Y. Brick-holder for stoves, ranges, &c	518,056	Apr. 10	1070	270	67	212
Eiche, August, Lincoln, Nebr. Pastry-tin	513,991	Feb. 6	28	7	66	800
Eichler, Carl P., Cleveland, Ohio. Flour-sifter	513,489	Jan. 30	2931	722	66	688
Eichler, Carl P., Cleveland, Ohio. Sifter	524,892	Aug. 21	1575	385	68	978
Eickemeyer, Rudolf, Yonkers, N. Y. Method of and means for developing dyed stiff hat-bodies	513,992	Feb. 6	29	7	66	860
Eickemeyer, Rudolf, Yonkers, N. Y. Electric locomotive	530,228	May 22	2266	552	67	1000
Eickemeyer, Rudolf, Yonkers, N. Y. Dynamo-electric machine	524,020	Aug. 7	86	19	68	678
Eickemeyer, Rudolf, Yonkers, N. Y. Winding for drum-armatures in dynamo-machines	525,697	Sept. 11	652	152	68	1284
Eickemeyer, Rudolf, Yonkers, N. Y. Armature for dynamo-electric machines	525,698	Sept. 11	654	152 153 154	68	1284
Eickemeyer, Rudolf, Yonkers, N. Y. Hat-stretching machine	527,271	Oct. 9	977	237 238	69	196
Eiden, Leo F., East Warren, Pa. Camera-shutter	519,247	May 1	558	136	67	645
Eikenbary, William, Union, Nebr. Draft-equalizer	515,543	Feb. 27	2590	641	66	1384
Eilers, Hio P. (See Bruch and Eilers.)						
Eils, Bette E. J., New York, N. Y. Fireproof furring, partition, or wall	528,931	Nov. 13	761	179	69	806
Eils, Bette E. J., New York, N. Y. Grille	529,719	Nov. 27	2132	510	69	1024
Eimke, Charles H., Brooklyn, N. Y. Railway-switch	530,404	Dec. 4	575	142 143	69	1320
Einfeldt, Emil, assignor to Eagle Manufacturing Company, Davenport, Iowa. Hay-loader	531,521	Dec. 25	2552	610 611	69	1729
Elper, Jay A., assignor of one-fourth to G. B. Stewart, Wilkes-Barré, Pa. Horseshoe	523,765	July 31	2770	687	68	577
Eisele, Otto, Karlsruhe, assignor to M. Jaeger, Darmstadt, Germany. Revolving vise	513,261	Jan. 23	2559	616	66	582
Eisen, Herman J., Brooklyn, N. Y., assignor to E. A. Locke, Brookline, Mass. Making duplex escapement-wheels	515,861	Mar. 6	206	48	66	1491
Eisen, Herman J., Brooklyn, N. Y., assignor to E. A. Locke, Brookline, Mass. Duplex escapement-wheel	515,862	Mar. 6	207	49	66	1491
Eisenberg, Chaskel C., Stettin, Germany. Shoe-fastening	523,517	July 24	2343	588	68	423
Eisenbraun, Emanuel, Odessa, Mo. Fruit-can forming and soldering machine	514,453	Feb. 13	786	201	66	1019

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Eisengiesserei und Maschinenfabrik für Schuh und Lederindustrie, vormals Miller & Andree. (See Göhring, Paul, assignor.)						
Eisenhart, David F., York, Pa. Machine for bunching match-sticks.....	515,201	Feb. 20	2005	{ 500 501	{ 66	1261
Eisenhart, Edward H., New York, N. Y. Machine for bunching match-sticks.....	515,756	Mar. 6	37	12	66	1462
Eisenhart, Samuel C., York, Pa. Variable driving-gear for bicycles.....	517,739	Apr. 3	548	132	67	106
Eisenhuth, John W., San Francisco, Cal. Conduit electric railway.....	523,271	July 17	1902	{ 478 479	{ 68	388
Eisenhuth, John W., San Francisco, Cal. Electrical conductor for trolleys.....	523,319	July 17	1983	498	68	404
Eiserle, Gustav, Arzberg, Austria-Hungary. Mechanism for making scythe-blades.....	514,545	Feb. 13	948	239	66	1049
Eisert, Hermann, Baltimore, and R. B. Talcott, Garrett Park, Md. Hot-water heater.....	526,967	Oct. 2	488	120	69	92
Eisler, Stephen N., assignor of one-half to Shakspeare & Swoop and J. D. Belton, New Orleans, La. Rotary pump.....	513,901	Jan. 30	3609	889	66	815
Eisler, Stephen N., assignor of one-half to J. D. Belton and Shakspeare & Swoop, New Orleans, La. Rotary pump.....	522,518	July 3	586	150	68	115
Eisman, Adam, Rochester, N. Y. Bicycle-support.....	530,330	Dec. 4	451	113	69	1296
Eisner, Herman, San Francisco, Cal. Filter.....	524,821	Aug. 21	1464	357	68	960
Ekelund, Nils K. H., Jönköping, Sweden. Coking-furnace.....	514,546	Feb. 13	949	240	66	1049
Eklund, John E., Rockford, Ill. Picture-exhibitor.....	526,953	June 5	367	89, 90	67	1264
Ekman, Oscar C. L., assignor of one-half to H. S. Bartlett, Syracuse, N. Y. Surface-gage.....	519,703	May 15	1375	{ 331 332	{ 67	822
Ekström, Axel, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric switch.....	518,231	Apr. 17	1376	345	67	284
Ekström, Axel, Lynn, Mass., assignor to General Electric Company, of New York. Fuse-box.....	520,772	June 5	19	4	67	1200
Ekval, John, Fargo, N. D. Photograph-album.....	518,346	Apr. 17	1582	392	67	322
Elam, James A., Murfreesborough, Tenn. Planter.....	519,248	May 1	562	136	67	646
Elam, William E., assignor of two-thirds to R. S. Thomas and S. W. Hardwick, Dallas, Tex. Machine for handling and cleaning seed-cotton.....	518,315	Apr. 17	1513	{ 378 379	{ 67	309
Elbert, Emil, St. Louis, Mo. Station-indicator.....	514,649	Feb. 13	1122	280	66	1023
Elbert, Emil, St. Louis, Mo. Soap pressing or stamping machine.....	525,070	Aug. 28	1912	468	68	1056
Elcoate, Thomas, Stockton-on-Tees, England. Water-gage.....	513,902	Jan. 30	3610	829	66	815
Elder, Edward E., Lynn, Mass. Machine for making bungs.....	527,952	Oct. 23	2128	{ 511 512 513	{ 69	439
Elder, Edward H., Chicopee, Mass. Breech-loading firearm.....	518,448	Apr. 17	1764	437	67	355
Elder, James M., Indianapolis, Ind. Automatic hatchway.....	521,107	June 5	633	140	67	1311
Elderkin, Lester L. D., Boston, Mass. Open-book holder.....	527,524	Oct. 16	1400	341	69	288
Eldon, James, Lock Haven, Pa. Electric lock.....	518,667	Apr. 24	2134	534	67	435
Eldridge, Herbert M. (See Eldridge, Reuben C., H. M., and L. W.)						
Eldridge, Hillary, <i>et al.</i> (See Owen, Thomas, assignor.)						
Eldridge, John T., Murfreesborough, N. C. Locking stop-cock for train-pipes of air-brake systems.....	527,327	Oct. 9	1067	258	69	212
Eldridge, Louis W. (See Eldridge, Reuben C., H. M., and L. W.)						
Eldridge, Reuben C., H. M., and L. W., Niagara, Canada. Snap-hook.....	528,270	Oct. 30	2694	649	69	557
Eldridge, William H., Omaha, Neb. Envelope.....	519,944	May 15	1757	431	67	893
Electric Boiler Company. (See Hopkins, Charles S., assignor.)						
Electric Cable Construction and Maintenance Company. (See Brooks, David, Jr., assignor.)						
Electric Cable Construction and Maintenance Company. (See Dewees, Thomas J., assignor.)						
Electric Cutter Company. (See Thyll, Arthur K., assignor.)						
Electric Engineering and Supply Company. (See Hinds, Jesse L., assignor.)						
Electric Gas Lighting Company. (See Burnham, William W., assignor.)						
Electric Gas Lighting Company. (See Ross, Frederick W., assignor.)						
Electric Gas Lighting Company. (See Thomson, Henry C., assignor.)						
Electric Gas Lighting Company. (See Thomson and Galbraith, assignors.)						
Electric Motor Company. (See Merritt and Roe, assignors.)						
Electric Power Company. (See Child, Charles T., assignor.)						
Electric Selector and Signal Company. (See Bogart and Leonard, assignors.)						
Electric Specialty Company. (See Bradner, William F., assignor.)						
Electric Typographic Company of West Virginia. (See Lee, Homer, assignor.)						
Electrical Engineering Company. (See Van Emon, Burton C., assignor.)						
Electrical Forging Company. (See Burton and Angell, assignors.)						
Electrical Zinc Company. (See Choate, Parker C., assignor.)						
Elfering, John H., Cincinnati, Ohio. Coin-operated electric apparatus.....	528,911	Nov. 6	723	170	69	778
Elfstrom, John, <i>et al.</i> (See Drake, Olof, assignor.)						
Elg, Charles, <i>et al.</i> (See Caesar, Peter J., assignor.)						
Elger, William D. (See Abbott, Nathaniel B., assignor.)						
Elger, William D. (See Abbott and Rau, assignors.)						
Elgin, John C., administrator. (See Elgin, Samuel T.)						
Elgin National Watch Company. (See Hunter, George E., assignor.)						
Elgin National Watch Company. (See Jackman and Smith, assignors.)						
Elgin, Samuel T., deceased; J. C. Elgin, Amboy, Ill., administrator. Latch for end-gates.....	529,720	Nov. 27	2132	511	69	1084
Elgin Wind Power and Pump Company. (See Snow, Gilbert B., assignor.)						
Elieson, Chaimsonovitz P., London, England, assignor to himself and F. A. Pellas, Nicaragua, Nicaragua. Storage-battery plate.....	519,602	May 8	1302	290	67	778
Elieson, Chaimsonovitz P., New York, N. Y., and F. A. Pellas, Greytown, Nicaragua. Fire-escape.....	517,335	Mar. 27	2684	630	66	2006
Elizondo, Juan G., Guayaquil, Ecuador. Drier for cocoa, &c.....	514,818	Feb. 13	1401	{ 352 353	{ 66	1136
Elkins, William H., Cambridge, Mass. Constant-current dynamo.....	519,858	May 15	1623	395	67	869
Elkins, William H., Cambridge, Mass. Safety system for railways.....	520,520	May 29	2752	666	67	1107
Elkins, William H., Cambridge, Mass., assignor to General Electric Company, of New York. Regulator for dynamo-electric machines.....	518,232	Apr. 17	1376	345	67	285
Eller, James H., Canton, Ohio. Conductor-pipe fastener.....	518,943	May 1	14	3	67	539
Ellerbeck, Thomas R. (See Hirsching, Henry, assignor.)						
Ellinwood, Augustus E., assignor to L. Miller, Akron, Ohio. Corn-harvester.....	530,222	Dec. 4	258	63, 64	69	1262
Elliot, Charles, Croydon, England. Machine for attaching postage-stamps to envelopes.....	517,740	Apr. 3	549	133	67	107
Elliott, Henry, St. Louis, Mo. Railway-switch.....	517,370	Mar. 27	2757	649	66	2021
Elliott, Bamford, assignor to J. J. Warren Company, Worcester, Mass. Bicycle-bag.....	519,107	May 1	286	68	67	590
Elliott, Charles F., Kent, Ohio, assignor of one-half to J. B. Miller. Lathe-chuck.....	512,283	Jan. 9	916	223	66	185
Elliott, Frank, North Vernon, Ind. Churn-motor.....	521,282	June 12	937	222	67	1380

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Elliott, James W., assignor of one-half to J. L. Kane and J. Sweeney, Galveston, Tex. Car-coupling	531,522	Dec. 25	2555	611	69	1729
Elliott, Lucius W., assignor of one-half to W. H. Yerkes, Northville, Mich. Automatic pulley-clutch and shaft-coupling	530,301	Dec. 4	396	100	69	1287
Elliott, Orson H., San Francisco, Cal. Wire bed-bottom	516,047	Mar. 6	515	119	66	1548
Elliott, Robert H., Birmingham, and J. B. Carrington, Jasper, Ala. Mining-drill	530,510	Dec. 11	784	{ 193 194 195 }	69	1375
Elliott, Robert H., Birmingham, and J. B. Carrington, Jasper, Ala. Mining-drill	530,511	Dec. 11	786	{ 194 195 196 }	69	1375
Elliott, Robert H., Birmingham, and J. B. Carrington, Jasper, Ala. Mining-drill	530,512	Dec. 11	788	195	69	1375
Elliott, Sterling, Newton, assignor to Hickory Wheel Company, South Framingham, Mass. Ball-bearing for wheels	518,138	Apr. 10	1198	300	67	234
Elliott, Sterling, Newton, assignor to Hickory Wheel Company, South Framingham, Mass. Ball-bearing	518,139	Apr. 10	1200	301	67	235
Elliott, Sterling, Newton, assignor to Hickory Wheel Company, South Framingham, Mass. Sully	521,460	June 19	1275	297	67	1460
Elliott, Sterling, Newton, assignor to Hickory Wheel Company, South Framingham, Mass. Sully	521,878	June 26	1987	480	67	1609
Elliott, Sterling, Newton, Mass., assignor to Pope Manufacturing Company, Portland, Me., and Hartford, Conn. Flexible tire and rim for wheels	527,781	Oct. 23	1820	438	69	383
Elliott, Sterling, Newton, Mass., assignor to Pope Manufacturing Company, Portland, Me., and Hartford, Conn. Flexible-tired wheel	527,782	Oct. 23	1823	439	69	383
Elliott, Sterling, Newton, Mass., assignor to Pope Manufacturing Company, Hartford, Conn., and Portland, Me. Wooden rim, band, &c.	529,112	Nov. 13	1057	255	69	858
Elliott, Thomas, <i>et al.</i> (See Gates, James, assignor.)						
Elliott, Walter S., Sag Harbor, N. Y., assignor of one-half to J. W. Ivory, Philadelphia, Pa. Dental mandrel	514,882	Feb. 13	1508	378	66	1156
Elliott, William E., Marion, Iowa. Button-attaching machine	526,012	Sept. 11	1195	{ 274 275 }	68	1381
Elliott, William H., Milwaukee, Wis. Railway-switch lock	526,619	Sept. 25	2248	538	68	1603
Elliott, William S., Jr., Walden, N. Y. Gas-heater for internal-combustion engines	523,628	July 24	2514	631	68	515
Ellis, Abram, assignor of one-half to W. R. Brown, Columbus, Ga. Ammonia-still	516,154	Mar. 6	674	158	66	1579
Ellis, Charles L., San Francisco, Cal. Business instruction and practice book	514,619	Feb. 13	1078	269	66	1074
Ellis, Elias C., Colorado Springs, Colo. Window-ventilator	516,860	Mar. 20	1869	442	66	1834
Ellis, Hartley, East Liverpool, Ohio. Knockdown barrel	527,328	Oct. 9	1069	258	69	212
Ellis, John D., Philadelphia, Pa., assignor to George D. Ellis & Sons Company, of Pennsylvania. Sheet-metal box	523,852	July 31	2932	731	68	608
Ellis, Jonathan T., Newark, N. J. Pocket-stove or portable warmer	527,598	Oct. 16	1517	368	69	309
Ellis, Oliver J., assignor to I. & E. Hall, Limited, London, England. Packing for piston-rods	528,773	Nov. 6	444	108	69	727
Ellis, Wiatt O., Tekoa, assignor to D. B. Keagy, Farmington, Wash. Fire-escape ladder	519,499	May 8	1011	{ 244 245 }	67	743
Ellis, William F. (See Vernon, Joseph I., assignor.)						
Ellis, William J., Philadelphia, Pa. Packing	522,459	July 3	494	125	68	98
Ellison, Albert W., Point Pleasant, W. Va. Combination article of furniture and collapsible table	528,932	Nov. 13	762	179	69	806
Ellison, Thomas, Vermont, Ill. Machine for sharpening roller-disk barrows	519,841	May 15	1591	389	67	863
Ellithorpe, Frank N., Peachton, Ohio. Machine for sorting or grading fruit, &c.	527,953	Oct. 23	2135	513	69	440
Ellithorpe, Frederick T., Newark, N. J. Safety device for elevators	527,171	Oct. 9	804	196	69	164
Ellsworth, Edwin R., Brooklyn, N. Y. Apparatus for manufacturing gas	522,687	July 10	875	{ 216 217 }	68	184
Ellsworth, Edwin R., Brooklyn, N. Y. Apparatus for the manufacture of gas	523,112	July 17	1617	{ 405 406 }	68	338
Ellsworth, Edwin R., Brooklyn, N. Y. Apparatus for making gas	524,544	Aug. 14	1000	{ 245 246 }	68	861
Ellwood, Abram. (See Macphail, James, assignor.)						
Ellwood, Abram. (See Roadhouse, Levi, assignor.)						
Elmore, Alexander S. (See Elmore, Francis E. and A. S.)						
Elmore, Francis E. and A. S., Leeds, assignors to Elmore's American and Canadian Patent Copper Depositing Company, Limited, London, England. Tank or cell for electrolytic purposes	524,940	Aug. 21	1661	407	68	993
Elmore's American and Canadian Patent Copper Depositing Company. (See Elmore, Francis E. and A. S., assignors.)						
Eloesser, Arthur, San Francisco, Cal. Machine for laying cloth	529,855	Nov. 27	2365	565	69	1127
Elsaesser, Emil, assignor to Dahl & Co., Barmen, Germany. Blue dye	524,677	Aug. 14	1214	.....	68	901
Elsas, Oscar. (See Price, John B., assignor.)						
Elsasser, Oscar O., assignor to F. W. T. Braeunig, Berlin, Germany. Device for reducing the ends of metal rods	515,328	Feb. 27	2242	555	66	1318
Elspass, John H., <i>et al.</i> (See Burson, Harry, assignor.)						
Elterich, Gotthold O. (See Elterich, Otto P. and G. O.)						
Elterich, Otto P., Maywood, N. J., and G. O. Elterich, Mill River, Mass. Lace-fastener	524,633	Aug. 14	1145	281	68	889
Eltling, Irving, Saugerties, N. Y. Sash-fastener	526,366	Sept. 25	1862	443	68	1532
Elvidge, Charles, assignor of one-half to J. D. Eby, Oakland, Cal. Automatic offset mechanism for sawmill-carriages	524,779	Aug. 21	1388	338	68	945
Ely, Edward O. (See Merritt, William B., assignor.)						
Ely, Edward O., Boston, Mass. Combination-wrench	516,191	Mar. 13	750	175	66	1608
Ely, H., <i>et al.</i> (See Paris, Robert L., assignor.)						
Elzner, Alfred O., Cincinnati, Ohio. Shutter-hinge	525,843	Sept. 11	928	207	68	1332
Emanuel, Jacob, and A. Spielmann, assignors of one-third to H. Mainin, Philadelphia, Pa. Sewing-machine	530,986	Dec. 18	1584	376	69	1533
Emden, Thomas W. L. (See Bourgeois, Jules E. M., assignor.)						
Emdin, Abraham N. (See Guilbert, John M., assignor.)						
Emdin, Lionel. (See Mills and Emdin.)						
Emerling, George, Shasta, Ohio. Railway-tie puller	526,520	Sept. 25	2099	500	68	1575
Emerson, Charles A., Oshkosh, Wis. Puzzle	522,250	July 3	130	31	68	25
Emerson Electric Manufacturing Company. (See Meston, Alexander W., assignor.)						
Emerson, George E. and V. H., Newark, N. J. Magic lantern	514,707	Feb. 13	1224	{ 304 305 }	66	1102
Emerson, James, Willimansett, Mass. Water-wheel-testing apparatus	530,513	Dec. 11	791	196	69	1376
Emerson, James, Willimansett, assignor to H. H. Stevens, Boston, Mass. Coupling apparatus for air or steam pipes	516,480	Mar. 13	1226	294	66	1697
Emerson, James, Willimansett, assignor to H. H. Stevens, Boston, Mass. Air-pipe coupling for railway-cars	516,481	Mar. 13	1228	294	66	1697

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Emerson, Victor H. (See Blackmore, James E., assignor.)						
Emerson, Victor H. (See Emerson, George E. and V. H.)						
Emerson, William H., Chatham, Canada. Lumber-register	525,008	Aug. 28	1796	{ 438 439 }	{ 68 68 }	1035
Emert, Nils, Omaha, Nebr. Combined pocket-book and satchel lock	511,765	Jan. 2	38	10	66	10
Emery, Avery L., assignor to Granite Filter Company, St. Louis, Mo. Filter	526,695	Oct. 2	40	11	69	10
Emery, Charles E., Brooklyn, N. Y. Method of and means for speed regulation of electric locomotives	517,948	Apr. 10	867	219	67	180
Emery, Charles E., Brooklyn, N. Y. Electrohydraulic car-motor	519,460	May 8	961	232	67	734
Emery, Charles G., trustee. (See Shortt, Edward G., assignor.)						
Emery, Frank V. (See Crittenden and Emery.)						
Emery, Fred B., Boston, assignor of two-thirds to C. S. Binner, Malden, and E. J. Phillips, Everett, Mass. Printers' metal furniture	528,660	Nov. 6	250	62	69	691
Emery, John A. (See Chick, Herace F., assignor.)						
Emery, John B., Lynn, assignor of one-half to Boston Shoe Tool Company, Boston, Mass. Sole-trimming machine	528,467	Oct. 30	3041	738	69	618
Emery, Lewis, Jr. (See Whitmore, Edwin B., assignor.)						
Emery, Plato G., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Door-check	527,385	Oct. 9	1162	285	69	231
Emory, Plato G., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Brake-handle	531,612	Dec. 25	2703	648	69	1759
Emig, Franklin. (See Seiler and Emig.)						
Emington, William, <i>et al.</i> (See Morris, William B., assignor.)						
Emmens, Stephen H., London, England. Treating zinc-lead-sulfid ores	513,490	Jan. 30	2932	.....	66	688
Emmert, B. E., <i>et al.</i> (See Fryer, Robert M., assignor.)						
Emmons, Charles C., Pittsburg, Pa. Machine for forming plaits	528,468	Oct. 30	3043	738	69	618
Empire City Subway Company. (See Phillips, James J. E., assignor.)						
Empire Light Company. (See Lewis, Leroy S., assignor.)						
Empire Type-Setting Machine Company. (See Johnson, Louis K., assignor.)						
Empson, John H., Longmont, Colo. Pea-sheller	527,954	Oct. 23	2137	514	69	440
Empson, John H., Longmont, Colo. Pea-shelling machine	527,955	Oct. 23	2140	515	69	441
Empson, John H., and P. McDonald, Longmont, Colo. Pea-shelling machine	527,956	Oct. 23	2142	515	69	441
Eushiveller, Osker G. (See Thompson and Emsliveller.)						
Ench, Frank, H. Fiegel, J. L. Cooke, Oakland, and G. F. W. Schultze, Berkeley; said Cooke assignor of one-half to J. Dolbeer, San Francisco, Cal. Automatic boat-davit	522,787	July 10	1069	264	68	218
Enequist, Erik W., Flushing, N. Y. Obtaining carbonic acid, sodium sulfate, and magnesium sulfate, &c.	523,651	July 24	2552	.....	68	523
Enequist, John, Brooklyn, N. Y. Making porous sulfate of alumina	520,416	May 29	2574	.....	67	1076
Enerson, Ole P., <i>et al.</i> (See Wylie, Chester L., assignor.)						
Engberg, John G., Menominee, Mich. Horse-hitching device	518,366	Apr. 17	1626	401	67	330
Engel, Albert W. (See Engel, Henry, assignor.)						
Engel, George W., and W. C. Juran, Philadelphia, Pa. Car-fender	531,026	Dec. 18	1656	{ 392 393 }	{ 69 69 }	1546
Engel, Godfrey, South Baltimore, Md. Process of and apparatus for forming and treating metals	528,661	Nov. 6	251	62, 63	69	691
Engel, Henry, Cleveland, Ohio. Safety water-column	519,382	May 8	814	198	67	709
Engel, Henry, New Ulm, Minn., assignor of one-fourth to A. W. Engel, Chicago, Ill. Bag-fastener	520,107	May 22	2038	497	67	960
Engel, Henry, West Cleveland, assignor of one-half to A. G. Ilg, Cleveland, Ohio. Smoke-consuming furnace	524,317	Aug. 14	596	143	68	789
Engel, Isidor, assignor to G. Friedman, Philadelphia, Pa., M. Engel, and S. Wohl, New York, N. Y. Opener or closer for folding doors	522,936	July 10	1303	325	68	262
Engel, Malie, <i>et al.</i> (See Engel, Isidor, assignor.)						
Engelbach, Augustus L., and S. E. Bretherton, Leadville, Colo. Furnace	518,493	Apr. 17	1828	453	67	367
Engelberg Hüller Company. (See Lipe, Charles E., assignor.)						
Engelhardt, Victor, Vienna, Austria-Hungary, assignor to Siemens & Halske, Berlin, Germany. Extracting metals from sulfide ores, &c.	531,169	Dec. 18	1919	457	69	1594
Engelman, Eugene M. (See Cummings, James F., assignor.)						
Enger & Co., L. A. (See Jakobsen, Karl A., assignor.)						
Enghien, Alphonse D. d'. (See Enghien, Charles D. d', A. D., S. D., and L. D.)						
Enghien, Charles D. d', A. D., S. D., and L. D., Hennyères, Belgium. Kiln for baking earthenware	512,284	Jan. 9	917	{ 223 224 }	{ 66 66 }	185
Enghien, Léon D. d'. (See Enghien, Charles D. d', A. D., S. D., and L. D.)						
Enghien, Silvain D. d'. (See Enghien, Charles D. d', A. D., S. D., and L. D.)						
England, William J. (See Fowler, England, and Nielsen.)						
Engle, George S. (See Wolgemuth and Engle.)						
English, Carl S., assignor of one-half to C. A. Church and O. C. McDannell, Lowell, Mich. Electrical governor for water-wheels	521,085	June 5	595	140	67	1304
English, Charles H., Washington, D. C. Finger-protector	518,027	Apr. 10	1018	256	67	204
English, Daniel B., and S. H. Hinnant, Way Cross, Ga. Goods-exhibitor	513,383	Jan. 23	2739	666	66	617
English, Forrest B. (See Peirce and English.)						
English, James W., New York, N. Y. Signaling apparatus	515,665	Feb. 27	2778	692	66	1422
English, William M., and F. E. Gladwin, San Francisco, Cal. Holder for toilet articles, calendars, &c.	514,182	Feb. 6	341	82	66	918
Engstfeld, Augustin C. L., Cleveland, Ohio, assignor of one-half to L. Lamb, Memphis, Tenn. Switch-operating device for tram-cars	530,302	Dec. 4	398	{ 100 101 }	{ 69 69 }	1287
Enholm, Oscar A., assignor to W. D. Smith, New York, N. Y. Conduit electric-railway system	525,539	Sept. 4	376	92	68	1220
Enholm, Oscar A., New York, assignor to E. C. Reiss, J. J. Ashley, Brooklyn, N. Y., and F. M. Ashley, Hawthorne, N. J. Electric railway	514,120	Feb. 6	225	52	66	897
Ennes, John D., Norfolk, Va. Blowpipe	515,425	Feb. 27	2409	596	66	1349
Enochs Bros. (See Enoch, Phillip H., assignor.)						
Enochs Lumber and Manufacturing Company. (See Hill, Edwin A., assignor.)						
Enochs, Phillip H., Fernwood, assignor to Enoch Bros., Jackson, Miss. Boiler-fine cleaner	525,699	Sept. 11	658	154	68	1234
Enos, Charles W., assignor of one-half to W. B. Flanagan, Peabody, Mass. Fire-engine lighter	529,024	Nov. 13	912	216	69	832
Enos, Fred, Bridgeport, Conn. Car-coupling	515,577	Feb. 27	2640	656	66	1394
Enqvist, Carl W., Providence, R. I., assignor of one-half to G. H. Anderson, Attleborough, Mass. Shutter-operating device	523,201	July 17	1784	448	68	366
Enright, Michael, Norfolk, Va. Portable awning for vessels	524,137	Aug. 7	292	68	68	715
Enriquez, Evaristo, San Juan Bautista, Tobasco, Mexico. Musical instrument	527,675	Oct. 16	1639	395	69	332
Ensign, Charles H., Kekaha, Hawaii. Metallic piston-rod packing and gland	520,954	June 5	369	90	57	1265

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Ensign, William W., assignor to Peck-Williamson Heating and Ventilating Company, Cincinnati, Ohio. Heating and ventilating apparatus	525,807	Sept. 11	846	192	68	1318
Ensign, William W., assignor to Peck-Williamson Heating and Ventilating Company, Cincinnati, Ohio. Dry closet and urinal system	525,808	Sept. 11	847	192 193 193 193	68	1314
Ensign, William W., assignor to Peck-Williamson Heating and Ventilating Company, Cincinnati, Ohio. Water-closet and urinal	525,809	Sept. 11	850	193 194	68	1319
Ensign, William W., assignor to Peck-Williamson Heating and Ventilating Company, Cincinnati, Ohio. Automatic flush-tank	527,599	Oct. 16	1518	368	69	310
Ensminger, Michael C., and J. W. Smitham, Denver, Colo. Ore-car	512,173	Jan. 2	741	180	66	141
Enterprise Manufacturing Company. (See Brown, John W., Jr., assignor.)						
Eutz, Justus B. (See Phillips and Eutz.)						
Eutz, Justus B. (See Waddell and Eutz.)						
Epperly, Belle, Logan, Iowa. Corset	515,824	Mar. 6	154	37	66	1482
Eppers, Heinrich, Braunschweig, Germany, assignor to R. Schwarz, Vienna, Austria-Hungary. Perspective-drawing apparatus	530,477	Dec. 4	687	172	69	1341
Eppler Welt Machine Company. (See Arnold, Henry H., assignor.)						
Epprecht, Herman, New York, N. Y. Gas-burner	520,521	May 29	2753	666	67	1107
Epstein, Albert, Breslau, Germany. Folding foot-bench	513,311	Jan. 23	2628	638	66	596
Erb, Samuel D., Shiremantown, Pa. Work-holder	525,950	Sept. 11	1089	248	68	1361
Erbach, Valentine, Scranton, Pa. Car-coupling	512,017	Jan. 2	482	115	66	92
Erbach, Valentine, Scranton, Pa. Car-coupling	512,103	Jan. 2	623	150	66	120
Erben, Hermann F. T., Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Armature for dynamo-electric machines	520,773	June 5	20	5	67	1200
Erben, John, and M. M. Koch, assignors to H. Franke Steel Range Company, Cleveland, Ohio. Oven	525,760	Sept. 11	760	176 177	68	1302
Erbor, Andrew, Coplay, Pa. Washing-machine	519,303	May 1	655	159	67	664
Erbslöh, Rudolph. (See Marsh, George H., assignor.)						
Erekson, Peter, Houston, Minn. Windmill	529,612	Nov. 20	1958	465 466	69	1042
Erfort, August C. (See Storck, August C., assignor.)						
Erichsen, Peter, Lunden, Island of Alsen, Germany. Valve for regulating the outflow of liquids	514,352	Feb. 6	638	163	66	973
Erickson, Andrew S., Holdrege, Neb. Pump-gear for windmills	531,523	Dec. 25	2556	611	69	1729
Erickson, Charles A., Red Wing, Minn. Wagon-body	514,067	Feb. 6	142	35	66	881
Erickson, John. (See Carr, John, assignor.)						
Erickson, Ole S., assignor of three-fourths to M. J. and C. W. Shields and L. G. Witbeck, Moscow, Idaho. Fumigating-cartridge	527,484	Oct. 16	1331	324	69	277
Ericksson, Eric H., St. Paul, Minn. Artificial leg	527,525	Oct. 16	1401	341	69	289
Ericson, John, Sabine Pass, Tex., assignor of one-half to A. Phinney, Edgartown, Mass. Gravity oil-distributor for ships	526,126	Sept. 18	1397	325	68	1430
Ericson, Lewis E., assignor to Flagg Manufacturing Company, Boston, Mass. Knife-holder for sole-rounding machines	523,162	July 17	1708	429	68	353
Ericson, Lewis E., assignor to Flagg Manufacturing Company, Boston, Mass. Sole-rounding machine	527,676	Oct. 16	1640	395 396 396	69	332
Ericson, Richard W., Aurora, assignor to Pettibone, Mulliken & Company, Chicago, Ill. Counterbalance mechanism for chutes of coal or ore docks	522,519	July 3	588	150 151	68	116
Ericsson, Charles A. (See Ludwig and Ericsson.)						
Ernold, Edward, New York, and W. Hollis, Brooklyn, N. Y., said Hollis assignor to said Ernold. Envelope-machine	513,491	Jan. 30	2933	722	66	688
Ernest, Juan W., Los Angeles, Cal. Portable booth	523,141	July 17	1676	419	68	348
Ernst, Charles K., Jr. (See Czora, Ernst, and Dernbrack.)						
Erpel, Reinhold. (See Moeser and Erpel.)						
Erskine, Robert S., London, England. Brake for cycles or other wheeled vehicles	514,819	Feb. 13	1402	353 354	66	1136
Erslev, Bertha M., Brooklyn, N. Y. Swinging support for clothes-lines	518,397	Apr. 17	1671	413	67	338
Ertel, George, Quincy, Ill. Thermostatic regulator for incubators	518,522	Apr. 17	1882	466	67	376
Erway, Benjamin F., Mapleton, Iowa. Lister-cultivator	530,755	Dec. 11	1203	293	69	1448
Erwin, John C. (See Bliss and Erwin.)						
Eschenbeck, Max, Jersey City, N. J., assignor to J. Mohs, Dresden, Germany. Machine for manufacturing boxes or plates	527,146	Oct. 9	768	187 188	69	157
Eschner, Louis, Philadelphia, Pa. Trolley-wire shield	514,353	Feb. 6	638	163	66	973
Eschweiler, Henry, San Francisco, Cal. Safety attachment for gas-burners	524,801	Aug. 21	1425	349	68	953
Escombe, Harry. (See Leverett and Ramsay, assignors.)						
Eshliman, Christian, Glenwood, Iowa. Stovepipe-punching machine	529,025	Nov. 13	913	216	69	832
Eskil, Jorgen J., Iron Mountain, Mich. Stove	512,689	Jan. 16	1596	383	66	329
Esmarch, Bernard C., Selly Oak, England. Lathe-carrier	530,303	Dec. 4	400	101	69	1288
Esselbach, Paul. (See Bernreuther, Carl, assignor.)						
Esselen, Henry M., manager. (See Folsom, George F., assignor.)						
Esser, Joseph, Barmen, Germany. Producing reflecting properties in jewelry and small ware	513,312	Jan. 23	2629	638	66	596
Essex, George B., Detroit, Mich. Safety water-gate	513,492	Jan. 30	2935	723	66	688
Essex, Samuel P., assignor of one-half to J. O. Hurst, Zionsville, Ind. Gas-burner	529,324	Nov. 13	1433	345	69	927
Essex, Stephen, Providence, R. I. Conveyor-chain or link belt	531,306	Dec. 25	2170	519	69	1656
Essex Watch Case Company. (See Crowell, Henry M., assignor.)						
Estberg, William T., assignor to J. K. Fennell and W. H. Cloak, Philadelphia, Pa. Window-shade fixture	524,978	Aug. 21	1718	421	68	1004
Estell, Samuel F., Chicago, Ill. Tricycle	517,741	Apr. 3	550	133 134	67	107
Esterbrook, Edward B. (See Cox, Charles B., assignor.)						
Estienne, Alfred D., Marseilles, France. Machine for decorticating ramie or other plants	531,307	Dec. 25	2172	519 520 714 715	69	1656
Estlow, Alfred J., Hartford, Conn. Combination-case for cards, &c.	528,420	Oct. 30	2951	715	69	602
Estlow, Alfred J., Hartford, Conn. Combination-case	528,421	Oct. 30	2953	715	69	602
Etchison, Samuel, Weiner, Ark. Hay-press	524,034	Aug. 14	1146	281	68	889
Ethington, Frank K., Cambridge, Mass. Door-lock marking-gage	513,313	Jan. 23	2630	638	66	597
Etherington, Frank K., Cambridge, Mass. Door-lock marking-gage	527,600	Oct. 16	1520	369	69	310
Ethridge, Frank N. (See Ethridge, Martin R. and F. N.)						
Ethridge, Frank N., Boston, Mass., assignor to American Postal Machines Company, Portland, Me. Machine for marking mail-matter	521,564	June 19	1450	338 339 340	67	1492
Ethridge, Frank N., Boston, Mass., assignor to American Postal Machines Company, of Maine. Stamp-canceling machine	521,565	June 19	1456	340 341	67	1493

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Ethridge, Frank N., assignor to A. Leavitt, Boston, Mass. Mail-marking machine.....	522,049	June 26	2316	556	67	1669
Ethridge, Frank N., assignor to A. Leavitt, Boston, Mass. Mail-marking machine.....	523,467	July 24	2246	564 565	68	465
Ethridge, Martin R. and F. N., Lynn, Mass., assignors, by mesne assignments, to Cope- land Rapid Laster Manufacturing Company, Portland, Me. Tack-driving machine.....	513,384	Jan. 23	2740	667 668	66	617
Ethridge, Martin V. B., Everett, Mass., assignor to American Postal Machines Company, Portland, Me. Mail-marking machine.....	521,566	June 19	1459	341 342	67	1493
Ethridge, Martin V. B., Boston, Mass., assignor to American Postal Machines Company, Portland, Me. Stamp-canceling and postmarking machine.....	521,605	June 19	1526	357 358	67	1505
Ethridge, Martin V. B., Everett, Mass., assignor to American Postal Machines Company, Portland, Me. Stamp-canceling and postmarking machine.....	521,606	June 19	1531	352 359	67	1506
Ethridge, Martin V. B., Everett, and H. E. Waite, Newton, assignors to C. F. Brown, Read- ing, Mass. Mail-marking machine.....	521,764	June 19	1808	429	67	1557
Eticuno, Bruncau, Waterbury, Conn. Hot-water boiler.....	518,592	Apr. 24	2002	496	67	412
Ettenger, George W., Barrow-in-Furness, assignor of one-half to G. E. Church, London, England. Brake-beam.....	515,666	Feb. 27	2780	692 693	66	1422
Ettinger, Joel, Milton, Pa. Rotary cutter.....	529,115	Nov. 13	1061	256	69	859
Ettinger, Joel, assignor to Joel B. Ettinger Machine Company, Limited, Milton, Pa. Ro- tary cutter.....	529,113	Nov. 13	1058	255	69	859
Ettinger, Joel, assignor to Joel B. Ettinger Machine Company, Limited, Milton, Pa. Ro- tary cutter.....	529,114	Nov. 13	1060	255	69	859
Ettinger, Rose, New York, N. Y. Folding table.....	515,955	Mar. 6	349	82	66	1518
Ettinger, Rose, New York, N. Y. Combined folding table and bed.....	517,607	Apr. 3	309	73	67	61
Eubank Car Door Company. (See Eubank, Thomas, assignor.)						
Eubank, Thomas, assignor to Eubank Car Door Company, Little Rock, Ark. Car-door fastener.....	512,467	Jan. 9	1244	300	66	247
Euchenhofer, Edward E. (See Weinman and Euchenhofer.)						
Euchenhofer, Edward E., C. J. Weinman, and A. L. Stevens; said Euchenhofer and Wein- man assignors to said Stevens; said Stevens assignor of two-thirds to J. M. Phelps and C. W. Utlbrok, Dayton, Ohio. Labeling-machine.....	517,918	Apr. 10	823	206 207	67	173
Eugster, Joseph, London, England. Means for hermetically closing gazogenes, &c.....	526,696	Oct. 2	41	11	69	11
Eulenfeld, Ferdinand von, Breslau, Germany. Horseshoe-calk.....	516,788	Mar. 20	1750	412	66	1809
Euphrat, Theophile, Darien, Conn. Life-guard for street-cars.....	514,749	Feb. 13	1297	323	66	1115
Euphrat, Theophile, Darien, assignor of one-eighth to C. S. Trowbridge, South Norwalk, Conn. Guard and shade attachment for windows.....	521,607	June 19	1534	359	67	1506
Eureka Can Opening Company. (See Kleinfeldt, Arthur, assignor.)						
Eureka Coat Pad Company of Baltimore City. (See Goldman, Edward, assignor.)						
Enstice, Edward A., Newton, Iowa. Wire-stretcher.....	513,993	Feb. 6	35	7	66	860
Evans, Abram, Corsica, Ohio. Weeding-hoe.....	514,419	Feb. 6	732	186	66	991
Evans, Alfred, Newburg, N. Y. Chair-seat.....	516,003	Mar. 6	437	101	66	1533
Evans, Arthur K., Toronto, Canada. Rope-grip.....	518,880	Apr. 24	2489	617	67	499
Evans, Arthur K., Toronto, Canada. Stay-traveler.....	520,955	June 5	370	90	67	1265
Evans, Benjamin F., Newton, Kans. Air-forcing apparatus.....	517,039	Mar. 27	2183	517	66	1908
Evans, D. L., et al. (See Welling, John E., assignor.)						
Evans, David E., et al. (See Darley, John W., Jr., assignor.)						
Evans, Elisha A. (See Bernhard, George, assignor.)						
Evans, Elmer O., Boston, Mass. Roadway and vehicle therefor.....	512,174	Jan. 2	742	180	66	142
Evans, Evan, Chicora, Pa. Check-valve for oil-wells.....	523,629	July 24	2517	631	68	516
Evans, Evan, Chicora, Pa. Shut-off valve for oil-wells.....	530,405	Dec. 4	576	143	69	1320
Evans, George C., and J. W. Layne, Higginsville, Mo. Advertising-board.....	530,756	Dec. 11	1204	293	69	1419
Evans, Hampton V., Philadelphia, Pa. Combined car fender and brake.....	525,071	Aug. 23	1914	469	68	1037
Evans, Ira T., Clive, Iowa. Harrow.....	531,308	Dec. 25	2174	520	69	1656
Evans, James, Linn Grove, Iowa. Device for transmitting power.....	529,252	Nov. 13	1310	314	69	903
Evans, John, Toronto, Canada. Car-coupling.....	513,098	Jan. 23	2321	351	66	527
Evans, John F., assignor of one-half to J. L. Sims and W. L. Gloze, Orangeburg, S. C. Lubri- cator.....	516,087	Mar. 6	571	134	66	1559
Evans, Joseph W., Newburyport, Mass. Sash-holder.....	518,494	Apr. 17	1929	454	67	367
Evans, Louis C., Springfield, Ohio. Seeder.....	520,192	May 22	2188	533	67	986
Evans, Louis C., Springfield, Ohio. Planter.....	526,521	Sept. 25	2100	500 501	68	1575
Evans, Morris, assignor of two-thirds to C. McCreary and K. Gieseler, Erie, Pa. Smoke- consuming furnace.....	531,367	Dec. 25	2283	544 545	69	1677
Evans, Robert D., et al. (See Gooding and Goudey, assignors.)						
Evans, Robert D., et al. (See Knight, Margaret E., assignor.)						
Evans, Robert D., et al. (See Knight and Gooding, assignors.)						
Evans, Robert D., et al. (See Steele, Herbert B., assignor.)						
Evans, Robert E. M. (See Reiff, William H., assignor.)						
Evans, Samuel W., Jr. (See Gaskill, William H., assignor.)						
Evans, Thomas P., National Military Home, Ohio. Duplex burner.....	527,957	Oct. 23	2144	516	69	442
Evans, William, Philadelphia, Pa. Machine for dressing hides, &c.....	525,493	Sept. 4	228	72	68	1205
Evans, William, Philadelphia, Pa. Hide and skin machine.....	526,387	Sept. 25	1863	443 444	68	1532
Evans, Williams S. (See Curtis, George D., assignor.)						
Evarts, Edward S., Chicago, Ill. Expanding cylinder for polishing-machines.....	523,534	Nov. 6	16	6	69	649
Evelyn-Liardet, Wilbraham, Elsternwick, Victoria. Explosive and making same.....	521,020	June 5	475		67	1282
Even, Louis, and J. T. Crowe, Jeffriesburg, Mo.; said Even assignor to said Crowe. Tongue-support.....	524,822	Aug. 21	1466	357	68	960
Everden, Robert E., North Coburg, Victoria. Centrifugal chorn.....	522,393	July 3	281	73, 74	68	57
Evered, Joshua, assignor of two-thirds to L. G. Lange, Duluth, Minn., and A. C. Lange, Muskegon, Mich. Steam-engine.....	513,493	Jan. 30	2937	723	66	669
Everest, David O., Pine Grove, and L. C. Lull, Kalamazoo, Mich. Spring-tooth barrow.....	516,302	Mar. 13	925	217	66	1642
Everest, Hiram B., Riverside, Cal. Packing-box.....	514,354	Feb. 6	639	163	66	973
Everest, Hiram B., Riverside, Cal. Water-sprinkler.....	519,992	May 15	1641	450	67	909
Everett, Charles J., Tenafly, N. J. Cement compound.....	515,757	Mar. 6	39		66	1462
Everett, Edward H., and A. Samuelson, Newark, Ohio. Glass-melting furnace.....	521,537	June 19	1409	326	67	1484
Everett, George W., assignor of one-fourth to J. J. Little, New York, N. Y. Adjustable window-shade holder.....	530,026	Nov. 27	2677	642 643	69	1187
Everett, Wilbur F., Reno, assignor to D. M. Bull, Verdi, Nev. Machine for cutting metal bars, &c.....	521,785	June 26	1844	429	67	1581
Everitt, Percival, deceased, London, England; H. M. Woolf, executor. Velocipede.....	530,169	Dec. 4	155	40, 41	69	1243

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Eversole, Theodore W., Washington, D. C. Self-heating soldering-iron.....	525,494	Sept. 4	290	72	68	1205
Evia, Alfonso L., Merida, Mexico. Machine for disintegrating fibrous plants.....	526,103	Sept. 18	1358	{ 315 316 }	{ 68 }	1423
Eviston, Henry. (See Springer and Eviston.)						
Ewaldt, August, Chicago, Ill. Bumping-post.....	524,416	Aug. 14	795	{ 194 195 }	{ 68 }	823
Ewart, William D., assignor to Link-Belt Machinery Company, Chicago, Ill. Friction-clutch.....	524,585	Aug. 14	1057	261	68	872
Ewers, George I., San Francisco, Cal. Automatic gas-burner.....	515,758	Mar. 6	40	12	66	1462
Ewers, George I., San Francisco, Cal. Lighting device for gas-burners.....	515,759	Mar. 6	42	12	66	1463
Ewert, Otto, and H. L. Marbach, Cleveland, Ohio, assignors, by mesne assignments, to F. R. Pennesey, New York, N. Y. Wick for oil stoves or lamps.....	530,170	Dec. 4	156	41	69	1244
Ewing, A. N., <i>et al.</i> (See Thrasher, Benton C., assignor.)						
Ewing, Charles W. (See Usry, William R., assignor.)						
Ewing, William T., <i>et al.</i> (See Terhune, Eugene A., assignor.)						
Excelsior Needle Company. (See Dayton, William H., assignor.)						
Excelsior Steel Furnace Company. (See Scherer, Albert G., assignor.)						
Expanded Metal Company. (See Golding, John F., assignor.)						
Eyessless Tool Company. (See Coblens, John Z., assignor.)						
Eyer, Samuel, and D. Smeltzer, Wakarusa, Ind. Railway-crossing danger-signal.....	517,097	Mar. 27	2296	541	66	1930
Eymann, Walter C. (See Steckel, Albert, assignor.)						
Eynon, Benjamin, Pittsburg, Pa. Feed-water heater.....	521,708	June 19	1696	398	67	1539
Eynon-Evans Manufacturing Company. (See Eynon, Thomas M., assignor.)						
Eynon, Thomas M., Philadelphia, Pa., assignor to Eynon-Evans Manufacturing Company, of Pennsylvania. Vacuum-breaker.....	513,903	Jan. 30	3611	890	66	816
Eynon, Thomas M., Philadelphia, Pa., assignor to Eynon-Evans Manufacturing Company, of Pennsylvania. Condenser.....	513,904	Jan. 30	3612	890	66	816
Eynon, Thomas M., Philadelphia, Pa., assignor to Eynon-Evans Manufacturing Company, of Pennsylvania. Balanced check-valve.....	515,578	Feb. 27	2642	656	66	1395
Eyre, George L. P., London, and T. J. Hopkins, Trowbridge, England; said Hopkins assignor to said Eyre. Wool-washing machine.....	517,566	Apr. 3	244	57, 58	67	48
F. B. Fargo & Company. (See Disbrow, Reuben B., assignor.)						
F. B. Fargo & Company. (See Payne, Darius W., assignor.)						
F. F. Ide Manufacturing Company. (See Ide, Ferdinand F., assignor.)						
F. H. Hill Company. (See Edward, John C., assignor.)						
F. M. Carr Manufacturing Company. (See Carr, Florence M., assignor.)						
F. P. Little Electrical Construction and Supply Company. (See Kester, Jesse F., assignor.)						
Faber, Alice. (See Faber, John P., assignor.)						
Faber, Eberhard. (See Fomander, Alfred, assignor.)						
Faber, John P., assignor to A. Faber, Rochester, N. Y. Sully.....	522,657	July 10	823	206	68	174
Fabisch, Philip, Baltimore, Md. Placket-guard.....	530,027	Nov. 27	2678	643	69	1187
Fabric Measuring and Packaging Company. (See Sutton, Andrew H., assignor.)						
Fagan, Darks. (See Donovan, George L., assignor.)						
Fahey, Timothy, Spokane, Wash. Combined bevel and square.....	524,417	Aug. 14	796	195	68	823
Fahrig, William, Chicago, Ill. Ice-velocipede.....	529,371	Nov. 20	1525	365	69	965
Fahrmeier, Henry. (See Raasch and Fahrmeier.)						
Fahrney, Andrew, Milledgeville, Ill. Brake for railway-cars.....	530,171	Dec. 4	157	41	69	1244
Fahy, James E., New York, N. Y. Die-stock.....	518,808	Apr. 24	2332	589	67	478
Faint, George, Indiana, Pa. Easel.....	518,544	Apr. 17	1919	474	67	352
Fairbairn, Charles, and M. Wells, Manchester, England. Apparatus for forging screws by rolling.....	516,764	Mar. 20	1717	404	66	1803
Fairbairn, Charles, and M. Wells, Manchester, England. Apparatus for forging screws.....	524,199	Aug. 7	398	94	68	734
Fairbairn, Thomas A., San Diego, Cal. Check-hook.....	515,544	Feb. 27	2591	641	66	1384
Fairbank, Josiah, Helena, Ohio. Machine for erecting frame structures.....	530,028	Nov. 27	2679	643	69	1187
Fairbank, Manford F., and J. R. Meach, assignors of one-half to T. Measures, Ogden Centre, Mich., and D. Brown, Seward, Ohio. Knotter mechanism for grain-binders.....	530,495	Dec. 4	743	{ 182 183 }	{ 69 }	1350
Fairbanks, Albert C., Boston, Mass. Wheel-rim.....	530,172	Dec. 4	159	41	69	1244
Fairbanks, Chester A., Denver, Colo. Folding camp-chair.....	516,763	Mar. 20	1717	404	66	1803
Fairbanks, Henry, and H. Parker, St. Johnsbury, Vt. Process of and machine for making spoons or hollow articles from paper-stock.....	523,113	July 17	1619	406	68	338
Fairbanks, Henry, and H. Parker, St. Johnsbury, Vt., assignors to Vacuum Wet Machine Company, of Vermont. Machine for couching and drying pulp.....	522,569	July 10	711	182	68	155
Fairbanks, Henry B., <i>et al.</i> (See Dow, George B. N., assignor.)						
Fairbanks, Mandal W., Boonville, Cal. Pistol attachment for gun-barrels.....	511,940	Jan. 2	361	84	66	68
Fairchild, Frank J., Saginaw, Mich., assignor of one-half to T. Nichols. Fire-escape.....	521,339	June 12	1061	248	67	1404
Fairchild, Henry L. (See Brewster, Flora A., assignor.)						
Fairfield, Hadley P., West Medford, assignor to J. W. Brooks, trustee, Petersham, Mass. Rotary cutter.....	518,917	Apr. 24	2559	633	67	512
Fairfield-Hamilton, Harry. (See Tanner, Henry J., assignor.)						
Fairmount Machine Company. (See Anderson, Gustav E., assignor.)						
Fairweather, Samuel, <i>et al.</i> (See Ferguson, George W., assignor.)						
Falck, Adolph. (See Lewis, Charles F. and W., assignors.)						
Falck, Adolph. (See Rider, Herbert E., assignor.)						
Fales, Edward, Winthrop, Mass. Fuel-support or grate.....	526,073	Sept. 18	1307	303	68	1414
Fales, Edward, Winthrop, Mass. Combined dumping and shaking grate.....	526,074	Sept. 18	1309	{ 303 304 }	{ 68 }	1414
Fales, Edward, Winthrop, Mass. Dumping-grate.....	529,066	Nov. 13	983	234	69	845
Falk Automatic Photo. Company. (See Mackusick, Elmer F., assignor.)						
Falkenau, Arthur, Philadelphia, Pa. Differential brake.....	513,771	Jan. 30	3405	840	66	774
Falkenstein, Charles, <i>et al.</i> (See Loeben, Gustav A., assignor.)						
Falkenstein, George, <i>et al.</i> (See Loeben, Gustav A., assignor.)						
Fall, Daniel W., F. B. Wineland, and S. L. Richards, Breckenridge, Colo. Settling-tank.....	526,565	Sept. 25	2164	517	68	1586
Fallis, Edward O., Toledo, Ohio. Metallic grain-storage building.....	521,951	June 26	2142	513	67	1639
Fallon, William, New York, N. Y. Dumping-scow.....	523,887	July 10	1206	300	68	244
Falor, Noah W., Mogadore, Ohio. Cultivator.....	521,340	June 12	1062	248	67	1404
Faltinowsky, Frank. (See Klaffky and Faltinowsky.)						
Falvey, Dennis, Battle Creek, Mich. Calking-tool.....	531,411	Dec. 25	2350	561	69	1690
Fane, Thomas. (See Lavender, Charles F., assignor.)						
Fanning, Peter P. (See Ruffner, Jonas F., assignor.)						
Fanshaw, Edwin, Sheffield, England. Engraving-machine.....	527,677	Oct. 16	1643	396	69	333

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Fanta, Ferdinand, assignor to Oxygen Producing Syndicate, Limited, London, England. Apparatus for making oxygen.....	519,627	May 8	1247	{ 299 300 }	67	786
Farbenfabriken, vormals Fr. Bayer & Co. (See Duisberg, Carl, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Duisberg and Ott, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Heymann, Bernhard, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Israel and Pathe, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Krekeler and Kraiss, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Manasse, Otto, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Nastvogel and Reingruber, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Stoehr, Carl, assignor.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Ulrich and Baumann, assignors.)						
Farbenfabriken, vormals Fr. Bayer & Co. (See Ulrich, Bammann, and Herzberg, assignors.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Knorr, Ludwig, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Kuzel, Hans, assignor.)						
Farbwerke, vormals Meister, Lucius & Brüning. (See Laubmann, Heinrich, assignor.)						
Farchmin, Herman, Gera, Germany. Dovetailing-machine.....	517,336	Mar. 27	2685	630	66	2006
Fargo, Frank B., Lake Mills, Wis. Butter-worker.....	515,667	Feb. 27	2782	693	66	1422
Faribault, Sterne A., Elsdon, Ill. Combined billiard-table, bookcase, and desk.....	513,314	Jan. 23	2631	{ 638 639 }	66	597
Faries, Robert, Decatur, Ill. Machine for making check-row wire.....	516,526	Mar. 13	1318	313	66	1714
Farica, Robert, Decatur, Ill. Adjustable carrier for electric lamps.....	521,952	June 26	2145	514	67	1639
Faris, Frederick F., Wheeling, W. Va. Hearth-bed for fireplaces.....	518,100	Apr. 10	1140	287	67	224
Fariss, Thomas J., Camp Hill, Ala. Iron fence.....	518,837	Apr. 24	2423	600	67	485
Farley, James, Waukesha, Wis. Valve for steam-pumps.....	526,149	Sept. 18	1439	{ 334 335 }	68	1438
Farmer, Elkin. (See Mayr, George, assignor.)						
Farmer, George P., Montclair, N. J. Clip for papers, &c.....	513,772	Jan. 30	3407	840	66	774
Farmer, George W., Indianapolis, Ind. Shuttle-guide for looms.....	528,505	Oct. 30	3102	752	69	630
Farmer, James S., Salford, assignor of three-fifths to H. L. and I. H. Storey, Lancaster, England. Machine for the manufacture of solid-color floor-cloths.....	521,157	June 12	721	{ 169 170 }	67	1341
Farmer, John, Jersey City, N. J. Device for drawing ale.....	512,951	Jan. 16	2074	491	66	418
Farmer, John R., assignor of two-thirds to O. M. Schmidt and W. B. Grable, St. Louis, Mo. Automatic electric signal-lamp.....	521,435	June 12	1212	{ 287 288 }	67	1432
Farmer, Julius M., Milwaukee, assignor of one-half to H. and A. L. Reuter, Rice Lake, Wis. Sewing-machine needle.....	517,853	Apr. 10	730	181	67	153
Farmer, Luther C., Minneapolis, Minn., assignor to Crown Syndicate, of Minnesota. Pendulum-scale.....	513,177	Jan. 23	2411	582	66	553
Farmer, William W. (See Rehffuss, George, J. G., and M. O., assignors.)						
Farnham, Bion B., Castleton, N. Y. Expandible pulley.....	522,658	July 10	824	206	68	175
Farnham, Isaiah H., Wellesley, Mass., assignor, by mesne assignments, to Western Electric Company, of Illinois. Annunciator-signal.....	527,839	Oct. 23	1909	459	69	399
Farnoff, Jay W., Buffalo, N. Y. Meat-chopping machine.....	529,253	Nov. 13	1311	315	69	903
Farnsworth, Andrew C., Chicago, and C. E. Roberts, Oak Park, Ill.; said Roberts assignor to said Farnsworth. Journal-bearing.....	527,016	Oct. 2	563	137	69	106
Farnsworth, Thomas, San Antonio, Tex. Gas-compressing pump.....	530,097	Dec. 4	35	9, 10	69	1221
Farnum, Myra C., Port Jervis, N. Y. Oven.....	518,057	Apr. 10	1071	271	67	212
Farr, Willis M., Dowagiac, Mich. Sand-band.....	526,075	Sept. 18	1312	304	68	1415
Farrant, George H., Bemerton, England. Protector for exposed seats.....	524,893	Aug. 21	1576	385	68	978
Farrar, Robert J., et al. (See Widrig, Charles, assignor.)						
Farrar, William B., assignor of one-half to O. W. Carr, Greensborough, N. C. Therapeutic electrode.....	520,673	May 29	3019	730	67	1157
Farrell, Della, et al. (See Farrell, George W., assignor.)						
Farrell, George B., East Las Vegas, N. Mex. Ter. Watchmaker's calipers.....	528,535	Nov. 6	18	6	69	649
Farrell, George W., assignor to D. Farrell, Ansel Forks, and A. J. Merrill, Jay, N. Y. Beer-condensing and bottle-filling apparatus.....	519,888	May 15	1673	407	67	878
Farrell, John, Pittsburg, Pa. Waste apparatus for bath-tubs, basins, &c.....	514,675	Feb. 13	1173	292	66	1091
Farrell, William F., Jamestown, N. D. Power-driven vehicle.....	513,773	Jan. 36	3408	841	66	775
Farrer, James F., et al. (See Parman, William S., assignor.)						
Farrington, Clarence H., assignor to F. W. Mann, Milford, Mass. Bone-cutting machine..	517,003	Mar. 20	2103	{ 497 498 }	66	1877
Farwell, Fay O., assignor of one-half to Adams Company, Dubuque, Iowa. Electric-lamp holder.....	524,707	Aug. 21	1266	312	68	924
Farwell, Fay O., assignor of one-half to Adams Company, Dubuque, Iowa. Non-conducting handle.....	524,708	Aug. 21	1268	312	68	924
Farwell, Oscar F., Woodstock, Vt., assignor to Wiley & Russell Manufacturing Company, Greenfield, Mass. Tire-marker.....	519,249	May 1	563	137	67	646
Fassett, Nelson B., Chicago, Ill. Machine for coupling drive-chain links.....	524,964	Aug. 21	1692	415	68	999
Fast Color Bicycle Company. (See Manville, Frank B., assignor.)						
Fate, John D., Plymouth, Ohio. Brick or tile cutting table.....	515,934	Mar. 6	315	75	66	1512
Fatkin, James, Aspen, Colo. Wrench.....	530,029	Nov. 27	2620	644	69	1188
Fatkin, James, assignor of three-fourths to J. Schoelkopf and H. W. Stormer, Aspen, Colo. Bailing device.....	528,085	Oct. 23	2375	573	69	483
Faucher, Charles. (See Sego and Faucher.)						
Faulder, Thomas. (See Bradley and Faulder.)						
Faulhaber, Hermann F. A., and C. F. Koch, Schwabisch Hall, Germany. Chimney-cowl.....	518,398	Apr. 17	1672	413	67	338
Faulkner, James J., assignor of one-half to G. W. Washburn, Memphis, Tenn. Refrigerating apparatus.....	512,175	Jan. 2	743	181	66	142
Faunt Le Roy, Hamp. B. (See Walton, Henry, assignor.)						
Faus, Norman A., Kansas City, Kans. Railway-signal carrier.....	525,849	Sept. 11	1006	226	68	1347
Faust, John, Cincinnati, Ohio, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Automatic stop action for sewing-machines.....	530,264	Dec. 4	329	82	69	1276
Fauteux, Edouard, Montreal, Canada. Awning.....	530,698	Dec. 4	36	10	69	1232
Favier, Pierre A., Paris, France. Machine for decorticating ramie, &c.....	520,983	June 5	417	100	67	1272
Favre, Louis A., Ticonderoga, N. Y. Sight for firearms.....	523,887	July 31	2989	744	68	619
Fawcett, Ezra, Alliance, assignor of one-half to L. W. Bradley, Cleveland, Ohio. Dynamo-electric machine.....	527,415	Oct. 16	1216	297	69	254
Fawcett, James W., St. Kilda, Victoria. Means for regulating rays of light passing through photographic lenses.....	516,861	Mar. 20	1870	442	66	1834
Fawcett, John F. W., West Superior, Wis. Split pulley.....	528,662	Nov. 6	256	63	69	692
Fawcett, Richard. (See Hibbert, Fawcett, and Worthington.)						
Fawcett Richard, Salem, Ohio. Axle-nut.....	528,293	Oct. 30	2736	661	69	564

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Fawell, Joseph. (See Hemphill, Wilcox, and Fawell.)						
Fawell, Joseph, and J. Hemphill, Pittsburg, Pa. Rolling-mill	525,263	Aug. 28	2228	{ 542 543 544 344 345 }	68	1112
Fawkes, Wilbert C., Chicago, Ill. Exhibiting device	522,979	July 17	1383	{ 542 543 544 344 345 }	68	293
Faxon, Micha B. (See Lambert, Richard C., assignor.)						
Fay, Albert T., Minneapolis, Minn. Electric-railway conduit	522,460	July 3	495	125	68	99
Fay, Albert T., Minneapolis, Minn. Conduit for trolley-arms	522,461	July 3	496	126	68	99
Fay, Arthur H. (See Hendrick and Fay.)						
Fay, August M. (See Hadfield, Joseph, assignor.)						
Fay, Edgar E., Worcester, Mass. Velocipede-wheel	520,845	June 5	165	36	67	1227
Fay, Edwin L. (See Street, Francis L., assignor.)						
Fay, Irving H. (See Burbank, Louis S., assignor.)						
Fay, Owen, Oil City, Pa. Construction of oil-wells	526,346	Sept. 18	1772	421	68	1503
Fay, Rimmon C., assignor to Remington Arms Company, Ilion, N. Y. Breakdown gun	528,506	Oct. 30	3103	753	69	630
Fay, Rimmon C., assignor to Remington Arms Company, Ilion, N. Y. Gun-frame	528,507	Oct. 30	3105	753	69	630
Fay, Rimmon C., Ilion, assignor to Remington Arms Company, New York, N. Y. Adjustable handle-bar for bicycles	528,629	Nov. 6	183	45	69	679
Fay, Rimmon C., and G. E. Humphreys, assignors to Remington Arms Company, Ilion, N. Y. Ejector for breakdown guns	528,508	Oct. 30	3106	{ 753 754 }	69	631
Fay, S. M., et al. (See Julian, Gideon, assignor.)						
Fay, Thomas J., New York, N. Y., assignor to C. & C. Electric Company, of New Jersey. System of electrical distribution	521,436	June 12	1215	288	67	1433
Fearn, Oris E., assignor of one-half to S. G. Porter, Haigler, Nebr. Razor-handle	519,250	May 1	564	137	67	646
Fearn, William R., Camden, N. J., assignor to J. McLoughlin, New York, N. Y. Bagatello-table	519,842	May 15	1593	389	67	863
Fearn, William R., Camden, N. J., assignor to D. W. Knapp, New York, N. Y. Question and answer educator	523,338	July 24	2024	509	68	428
Federici, Antonio, Paterson, N. J. Building-block	527,416	Oct. 16	1217	297	69	254
Featherbone Corset Company. (See Chappell, Fred L., assignor.)						
Fee, George, North Bay, Canada. Refrigerator	518,233	Apr. 17	1378	345	67	285
Fee, Harry L., New Orleans, La. Commutator for dynamo-electric machines	513,460	Jan. 23	2875	706	66	642
Fee, William R., assignor to A. J. White, Cincinnati, Ohio. Clamp for cutter-blades	520,260	May 22	2323	{ 563 564 }	67	1011
Feely, James E., Malden, Mass. Pipe-drilling device	525,385	Sept. 4	114	30	68	1171
Fefel, Henry H., New York, N. Y. Sewing-machine trimmer	513,008	Jan. 16	2162	514	66	434
Fefel, Henry H., New York, N. Y. Sewing-machine	513,009	Jan. 16	2163	515	66	434
Fefel, Henry H., New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Oversear for fabrics	523,931	July 31	3073	765	68	635
Fefel, Henry H., New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Sewing-machine	523,932	July 31	3074	{ 765 766 }	68	635
Fefel, Henry H., New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Trimmer for sewing-machines	523,933	July 31	3078	766	68	636
Feicker, Fredrick C., Northampton, Mass. Machine for sawing knife-handle blanks	521,608	June 19	1535	359	67	1506
Feigl, Albert, New York, N. Y. Lamp-shade	522,752	July 10	1013	251	68	207
Feiner, Adolph, and T. G. Saxton, Lexington, Ky. Device for holding collars on shirts	514,454	Feb. 13	790	202	66	1020
Feiner, Adolph, and T. G. Saxton, Lexington, Ky. Device for holding collars or cuffs on shirts	528,469	Oct. 30	3044	739	69	619
Feishtinger, Charles W., Fritztown, assignor of one-half to S. Shearer, Lower Heidelberg, Pa. Calendar-clock	527,326	Oct. 9	1163	285	69	231
Feix, Firm of Jos. (See Thamerus, Paul, assignor.)						
Felbel, Jacob, New York, N. Y. Type-writing machine	526,774	Oct. 2	177	41	69	34
Feldenheimer, Joseph, Philadelphia, Pa. Knitted undershirt	528,536	Nov. 6	19	7	69	650
Feldman, Frank C. (See Phillips and Feldman.)						
Feldmeier, Harvey, assignor to D. H. Burrell & Co., Little Falls, N. Y. Cheese-press	529,856	Nov. 27	2366	{ 565 566 }	69	1127
Feldt, Ferdinand J., Peoria, Ill. Lathe-chuck	516,645	Mar. 20	1516	360	66	1767
Felker, Melancthon O., Springfield, Ohio. Whip	511,838	Jan. 2	144	37	66	30
Felker, William S. (See Shearer, Albert W., assignor.)						
Fell, Ambrose G., New York, N. Y. Obtaining lead salts from native ores	519,704	May 15	1375	{ 715 716 }	67	822
Fell, William T., London, England. Horse-collar	528,422	Oct. 30	2955	716	69	603
Felldin, A. Abraham, Auburn, N. Y. Piano	520,139	May 22	2113	515	67	972
Feller, Nicholas, et al. (See Barr, Samuel D., assignor.)						
Fellows, Samuel R., Hubbard, Ohio. Cooler for cinder-notches	518,495	Apr. 17	1830	454	67	367
Fenderson, Edward J., Lowell, assignor to H. H. Ham, Boston, and A. A. Coburn, Lowell, Mass. Spindle for spinning-machines	521,142	June 5	692	162	67	1321
Feneran, Frederick J., and E. D. Milks, Machias, N. Y. Hay-knife	519,251	May 1	565	137	67	646
Fenley, Frank, assignor to E. B. Kemp, New Orleans, La. Water-motor	529,524	Nov. 20	1822	433	69	1017
Fenn, Jason C., Terryville, Conn., assignor of one-half to W. E. Phelps, Elmwood, Ill. Bridge	530,265	Dec. 4	333	82	69	1276
Fenn, Katy, Chicago, assignor of one-half to K. V. Lawlor, Joliet, Ill. Multiple record	520,774	June 5	22	5	67	1200
Fennell, George H. (See Lineback, William T., assignor.)						
Fennell, James K., et al. (See Estberg, William T., assignor.)						
Fennesy, Frank R. (See Ewert and Marbach, assignors.)						
Fenno, Isaac, et al. (See Howe, Patrick, assignor.)						
Fenwick, Robert W., Washington, D. C., assignor to A. E. Hunt, Scranton, Pa. Hand glass-tube cutter	513,965	Jan. 30	3705	913	66	835
Féraud, Joseph, Paris, France. Filtering apparatus	513,905	Jan. 30	3613	890	66	816
Ferguson, Florian, Seattle, Wash. Lampighter	522,462	July 3	497	126	68	99
Ferguson, George C., Odell, Nebr., assignor of one-half to M. Oswald, Hanover, Kans. Super for beehives	529,116	Nov. 13	1062	236	69	859
Ferguson, George W., Plymouth, assignor to S. Fairweather and W. Clausen, Sheboygan, Wis. Garment-supporter	526,522	Sept. 25	2102	501	68	1575
Ferguson, Henry J., Brooklyn, N. Y., assignor to C. F. Burrell, trustee. Barrel-washer	530,515	Dec. 11	793	{ 196 197 }	69	1376
Ferguson, James H., Brooklyn, assignor of one-fourth to J. Nestor, New York, N. Y. Making curved electrotypes or stereotypes for printing	522,319	July 3	247	66	68	49
Ferguson, John M., Chicago, Ill. Oil-gas burner	514,218	Feb. 6	422	102	66	931
Ferguson, Lyman, assignor of one-half to E. Young, Syracuse, N. Y. Bicycle	528,423	Oct. 30	2955	716	69	603
Ferguson, Peter, and W. Y. Fleming, Paisley, Scotland. Steam-boiler	530,331	Dec. 4	452	113	69	1296
Ferguson, Robert, and A. T. Danks, Melbourne, Victoria. Milking-machine	518,234	Apr. 17	1379	346	67	285

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Ferguson, Sidney M., assignor to himself and J. M. Well, Elwood, Ind. Mail-bag fastener	514,183	Feb. 6	342	82	66	918
Ferguson, Thomas, Hawksburn, Victoria. Machine for siruping and filling siphon-bottles.	526,861	Oct. 2	320	79	69	61
Ferguson, Thomas T. H., Hankow, China. Sextant attachment.	530,830	Dec. 11	1316	317	69	1470
Ferguson, William J., Baltimore, Md. Automatic oiler for elevator-guides.	517,272	Mar. 27	2579	605	66	1985
Ferguson, William J., assignor of one-half to W. G. H. Stump, Baltimore, Md. Device for opening or closing elevator-doors.	527,366	Oct. 9	1132	276	69	225
Fergusson, Frederick D. (See Robinson and Fergusson.)						
Fernald, James W. (See Jodoin, Pierre, assignor.)						
Fernholtz, Emil, assignor of one-half to J. Stocke and H. C. Beckmann, St. Louis, Mo. Mold for brick-machines.	518,185	Apr. 10	1278	323	67	248
Ferrall, Thomas R., Bridgeport, assignor to Union Hardware Company, Torrington, Conn. Hoisting-block.	511,766	Jan. 2	39	10	66	11
Ferrall, Thomas R., Bridgeport, assignor to Union Hardware Company, Torrington, Conn. Snatch-block.	516,192	Mar. 13	752	176	66	1609
Ferrand, Jules, Darnetal, France. Regulator for dynamo-electric machines.	529,117	Nov. 13	1064	257	69	860
Ferree, Samuel P., Brooklyn, N. Y. Educational puzzle.	523,067	July 17	1530	382	68	320
Ferrell, Alphonzo. (See Blosser and Kunkle, assignors.)						
Ferrer, Ramon M. (See Morell and Ferrer.)						
Ferres, Jeffrey T., Anderson, Ind. Bottle-packing wrapper.	515,668	Feb. 27	2783	693	66	1423
Ferrin, Moroni D., Ogden, Utah Ter. Music-leaf turner.	523,272	July 17	1904	479	68	389
Ferris, Edwin D., and G. M. Wheeler, Tacoma, Wash. Automatic water-circulating fire-grate.	517,567	Apr. 3	248	58	67	49
Ferris, Henry L., Harvard, Ill. Door-hanger.	516,193	Mar. 13	753	176	66	1609
Ferris, John C., Millville, N. Y. Wire-tence machine.	516,803	Mar. 20	1769	418	66	1813
Ferris, John F., and W. M. Thomas, North English, Iowa. Gate.	523,202	July 17	1785	448	68	366
Ferry, Edwin R., New Haven, and S. Halliwell, Tyler City, Conn.; said Ferry assignor to said Halliwell. Sash-fastener.	512,618	Jan. 9	1528	367	66	301
Ferry, Frank P., assignor of one-half to T. Clark & Co., Danbury, Conn. Machine for automatically making pasteboard strips for hat-packing rings.	523,833	July 31	2893	{ 719 720 721 }	{ 68 68 68 }	{ 601 601 601 }
Ferry, Harvey S., Mount Vernon, assignor to Ferry Manufacturing Company, New York, N. Y. Method of and means for carbonating liquids.	530,070	Nov. 27	2757	661	69	1201
Ferry, Harvey S., Mount Vernon, assignor to Ferry Manufacturing Company, New York, N. Y. Apparatus for carbonating liquids.	530,071	Nov. 27	2759	{ 661 662 }	{ 69 69 }	{ 1201 1201 }
Ferry Manufacturing Company. (See Ferry, Harvey S., assignor.)						
Fette, Henry, Goodenow, Ill. Feeder for hay-presses.	521,261	June 12	905	213	67	1374
Fettors, William H., Greentown, Ohio. Pump.	519,081	May 1	214	57	67	583
Feuerbacher, Frank P., assignor of one-half to J. M. Fightmaster and H. H. Howard, Oklahoma, Okla. Ter. Cross-tie for railways.	521,158	June 12	723	171	67	1341
Feuerstein, Albert E. (See Buckley, Charles E., assignor.)						
Fewkes, Joseph T., assignor to E. H. Anderson, Philadelphia, Pa. Oil-filter.	530,757	Dec. 11	1205	293	69	1449
Feyereisen, John P. (See Bauer and Feyereisen.)						
Fickinger, Emil H., assignor to Acme Roofing Company, Canton, Ohio. Machine for making conductor-pipes.	531,170	Dec. 18	1921	457	69	1595
Fidler, James. (See Richardson and Fidler.)						
Fieke, Karl G., Dresden, Germany. Car-brake.	519,993	May 15	1842	450	67	909
Field, Arthur W., Boston, Mass. Brake-shoe.	529,372	Nov. 20	1526	365	69	965
Field, Benjamin F., Los Angeles, Cal. Water-filter.	524,545	Aug. 14	1002	246	68	861
Field, Charles C., New York, N. Y. Wagon-seat.	512,018	Jan. 2	483	115	66	93
Field, Charles C., New York, N. Y. Corner-iron for vehicle-seats.	526,223	Sept. 18	1572	369	68	1462
Field, Daniel A., et al. (See Frost, Walter E., assignor.)						
Field, David W. (See Cummings and Field.)						
Field, Edward, et al. (See Dixon, George, assignor.)						
Field, Hiram, Smithville, Canada, assignor of one-half to G. D. Wyckoff, Washington, D. C. Pump.	513,966	Jan. 30	3707	913	66	835
Field, John T., St. Louis, Mo. Directory-post and call-box.	530,099	Dec. 4	37	11	69	1222
Field, Rollin D., Rutland, Vt. Attachment for stone-working machines.	525,700	Sept. 11	659	154	68	1284
Field, Rollin D., and E. O. Pratt, Rutland, Vt. Stone-working machine.	517,742	Apr. 3	551	134	67	107
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Telephone.	523,630	July 24	2518	631	68	517
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Electromagnetic apparatus.	529,373	Nov. 20	1527	366	69	965
Field, Stephen D., Stockbridge, assignor to American Bell Telephone Company, Boston, Mass. Suppression of self-inductive obstruction in electromagnetic apparatus.	530,516	Dec. 11	795	197	69	1377
Field, Thaddeus S., assignor of one-half to G. W. Dunn, Atlanta, Ga. Wheel-hub.	517,216	Mar. 27	2493	586	66	1969
Field, W. R. (See Hogue, Lovren E., assignor.)						
Field, William E., Hawthorn, Victoria. Miner's safety-lamp.	527,055	Oct. 9	627	153	69	132
Field, William H., Port Chester, N. Y. Bag.	526,566	Sept. 25	2167	517	68	1587
Fielding, John, Gloucester, England. Valve-gear.	518,593	Apr. 24	2003	{ 496 497 }	{ 67 67 }	{ 412 412 }
Fielding, William B., San José, Cal. Wire-tightener.	513,906	Jan. 30	3614	891	66	816
Fields, Charles C., assignor of one-half to A. D. Reynolds, Bristol, Tenn. Automatic alarm-register.	520,159	May 22	2149	524	67	979
Fields, Charles C., Bristol, Tenn., assignor to Fields Manufacturing Company, Louisville, Ky. Register.	528,509	Oct. 30	3108	754	69	631
Fields, Cyrus G. (See Ogle and Fields.)						
Fields Manufacturing Company. (See Fields, Charles C., assignor.)						
Fiester, John C., Reading, Pa. Means for fastening wheels to shafts.	525,009	Aug. 28	1798	439	68	1035
Finch, Henry H., assignor of one-half to S. S. Bonham, La Plata, and B. W. Bonham, La-crosse, Mo. Railway-rail joint.	527,367	Oct. 9	1134	276	69	225
Finch, James J., Chelsea, Mass. Machine for concaving razors.	531,368	Dec. 25	2284	545	69	1677
Figgens, Joseph F., Washington, D. C., assignor of one-third to W. F. Zang, Harrisburg, Pa. Wall-desk.	518,567	Apr. 17	1959	483	67	389
Fightmaster, John M., et al. (See Feuerbacher, Frank P., assignor.)						
Filbert, John H., Baltimore, Md. Making edible fats.	522,409	July 3	405	104	68	80
Filip, Franz, New York, N. Y. Apparatus for molding veneer articles.	528,663	Nov. 6	257	63, 64	69	692
Filstrup, Lars L., Chicago, Ill. Capo tasto.	514,263	Feb. 6	499	122	66	946
Finch, Frederick A., assignor of one-third to G. H. Miller, St. Louis, Mo. Vehicle-wheel.	518,881	Apr. 24	2490	617	67	499
Finch, James M., and C. Pfeiffer, Milwaukee, Wis. Wire-mattress-weaving machine.	515,202	Feb. 20	2009	501	66	1262
Finch, James T., Wellsville, Ohio. Chimney-top and ventilator.	517,797	Apr. 3	636	159	67	123
Finch, John M., Hornellsville, N. Y. Fishing-rod support.	520,041	May 22	1922	471	67	939
Finch, John M., assignor of one-half to F. Miller, Marysville, Cal. Rotating grain-meter.	517,008	Apr. 3	311	73	67	61
Finch, John Q., San Francisco, Cal. Lubricator.	518,658	Apr. 10	1072	271	67	212
Finch, John W., Northampton, Mass. Monocycle.	521,786	June 26	1845	440	67	1581

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Finch, Reuben R., and T. J. Hodgkins, assignors to Union Stove Works, Peekskill, N. Y. } Combined cooking-range and gas-stove.....	514,919	Feb. 20	1570	{ 394 395 }	{ 66 66 }	1182
Finch, Stanley W., Washington, D. C. Roller-skate.....	515,490	Feb. 27	2500	619	66	1366
Finck, Ira E. (See Lippy and Finckroek.).....						
Finger, Carl, Wilkes-Barre, Pa. Steam-boiler.....	528,086	Oct. 23	2377	573	69	484
Fink, Benjamin F., Orbisonia, Pa. Horseshoe.....	513,428	Jan. 23	2802	687	66	629
Fink, Edgar J., Hanover, Pa. Cigar-press.....	529,254	Nov. 13	1314	316	69	904
Fink, George, <i>et al.</i> (See Ferrin, Frederick S., assignor.).....						
Fink, Jacob F. (See Schlientz and Fink.).....						
Fink, Joseph H. (See George, Albert F., assignor.).....						
Fink, William W., <i>et al.</i> (See Schairer, John J., assignor.).....						
Finkbeiner, George, Syracuse, N. Y. Clothes-drier.....	531,524	Dec. 25	2557	612	69	1730
Finkbner, U. S. G., <i>et al.</i> (See Manderfield, George J., assignor.).....						
Finkel, Benjamin. (See Schoff, Finkel, and Probert.).....						
Finklestein, Moris, New York, N. Y. Cooker.....	520,305	May 22	2392	581	67	1025
Finlay, William, Schoolcraft, Mich. Holdback for vehicles.....	514,219	Feb. 6	424	103	66	932
Finlayson, Alexander W., assignor, by mesne assignments, of two-thirds to Finlayson Boiler Company, Limited, Detroit, Mich. Steam-generator.....	519,059	May 1	196	46	67	574
Finlayson Boiler Company. (See Finlayson, Alexander W., assignor.).....						
Finley, George T., West Newton, Pa. Hot-air furnace.....	532,364	July 3	322	82, 83	68	63
Finley, James H., Buffalo, N. Y. Windlass for grain-shovels.....	520,956	June 5	371	90, 91	67	1265
Finley, James H., assignor of one-half to G. S. Gatchell, Buffalo, N. Y. Means for operating elevator-legs.....	518,496	Apr. 17	1831	454	67	367
Finley, James H., assignor of three-fourths to G. S. Gatchell, D. M. Doyle, and J. Murphy, Buffalo, N. Y. Pneumatic elevator.....	512,873	Jan. 16	1942	460	66	394
Finley, John E., Memphis, Tenn. Churn-dasher.....	523,033	July 17	1483	369	68	311
Finn, Oliver B., Philadelphia, Pa. Conduit electric railway.....	527,601	Oct. 16	1521	369	69	310
Finn, Philip A., New York, N. Y. Child's game instructor.....	515,076	Feb. 20	1806	456	66	1224
Finnigan, Owen, Philadelphia, Pa. Carriage-wheel.....	514,708	Feb. 13	1226	305	66	1103
Finot, Raphael, Murphysborough, Ill. Plow.....	515,876	Mar. 6	226	53	66	1496
Finter, William, assignor of one-half to H. B. Beach, Pleasant Hill, Mo. Spring-cockeye.....	530,758	Dec. 11	1206	294	69	1449
Firestone, George C., Benicia, Cal. Combination brick-kiln.....	518,690	Apr. 24	2165	542	67	441
Firm, Joseph L., Jersey City, N. J., assignor to Goss Printing Press Company, Chicago, Ill. Printing-machine.....	529,680	Nov. 20	2061	{ 493 494 }	{ 69 69 }	1061
Firth, Alfred T., Chicago, Ill. Ice-velocipede.....	512,690	Jan. 16	1597	3-3	66	329
Fischel, Jakob, Vienna, Austria-Hungary, assignor to L. Abeles, Rutherford, N. J. Embroidering-machine.....	516,155	Mar. 6	676	{ 158 159 }	{ 66 66 }	1379
Fischer, Cleophas, assignor to S. B. Rowley, Philadelphia, Pa. Fastener for glass or other vessels.....	515,579	Feb. 27	2643	656	66	1395
Fischer, George F., Rochester, N. Y. Self-loading cart.....	528,424	Oct. 30	2957	{ 716 717 718 }	{ 69 69 69 }	603
Fischer, George F., Rochester, N. Y. Sole channeling and rounding-out machine.....	530,072	Nov. 27	2760	{ 662 663 664 695 }	{ 69 69 69 67 }	1202
Fischer, Herman, Brooklyn, N. Y. Machine for pasting vamps to uppers.....	520,590	May 29	2870	695	67	1130
Fischer, J. & C. (See Fischer, Torquato T., assignor.).....						
Fischer, Jacob A., San Francisco, Cal. Index or display device.....	530,987	Dec. 18	1586	376	69	1533
Fischer, Torquato T., assignor to J. & C. Fischer, New York, N. Y. Piano-action.....	527,485	Oct. 16	1332	324	69	277
Fischer, Siegfried M. (See Kohn, Milton M., assignor.).....						
Fischer, Therese R., Baltimore, Md. Strainer for coffee-pots, &c.....	523,720	July 31	2696	668	68	561
Fischer, Therese R., Baltimore, Md. Threader for sewing-machine needles.....	525,142	Aug. 28	2044	499	68	1079
Fischman, Benjamin. (See Shigon, Nathan A., assignor.).....						
Fiscus, Adam, Fiscus, Iowa. Stock-rake.....	512,176	Jan. 2	744	181	66	142
Fiscus, Adam, Fiscus, Iowa. Pulverizer.....	517,138	Mar. 27	2356	556	66	1942
Fish, Horace W., <i>et al.</i> (See Brooks, John, assignor.).....						
Fish, Sidell E., Greenport, N. Y. Cash-delivering device.....	519,449	May 8	921	222	67	728
Fish, William A. (See Wilkins, William C., assignor.).....						
Fishburn, Joseph. (See Unsöld, Felix, assignor.).....						
Fishel, Charles W., Aspen, Colo. Game-board.....	512,104	Jan. 2	625	150	66	120
Fisher, Andrew J., Buda, Ill. Manufacturing car-wheels.....	521,787	June 26	1846	440	67	1582
Fisher, Asahel H., assignor of one-tenth to C. E. Voorhees, Philadelphia, Pa. Governor for engines.....	531,107	Dec. 18	1798	428	69	1572
Fisher Axle Company. (See Fisher, John E., assignor.).....						
Fisher, C. H., <i>et al.</i> (See Pinnell, Jones T., assignor.).....						
Fisher, Charles, <i>et al.</i> (See Schneider, George L.).....						
Fisher, Charles, St. Louis, Mo. Street-sweeper.....	524,709	Aug. 21	1269	313	68	924
Fisher, Charles, assignor to Globe Register Company, Milwaukee, Wis. Money recording and receipting machine.....	525,681	Sept. 4	603	{ 144 145 }	{ 68 68 }	1262
Fisher, Edward E., Columbus, Ohio. Casket-pedestal.....	521,211	June 12	814	191	67	1358
Fisher, Edward H. (See Bayliss, John A., assignor.).....						
Fisher, Elwood J., Attleborough, Mass. Card for eyeglass-chains.....	526,523	Sept. 25	2103	501	68	1575
Fisher, Ferdinand, Chesaning, Mich. Animal-poke.....	519,994	May 15	1844	450	67	909
Fisher, Harvey L., Des Moines, Iowa. Platform-scale.....	523,142	July 17	1677	420	68	348
Fisher, Henry, Sacramento, Cal. Comb-cleaner.....	520,731	May 29	3109	753	67	1173
Fisher, Henry, Sacramento, Cal. Combined pencil-sharpener and eraser.....	520,732	May 29	3111	753	67	1174
Fisher, Israel, Medford, and J. W. Partridge, Cambridge, Mass. Steam-generator and heating apparatus.....	516,088	Mar. 6	573	134	66	1559
Fisher, James H. (See Albertson and Fisher.).....						
Fisher, James W., Piqua, Ohio. School-seat hinge.....	518,928	May 1	83	21	67	551
Fisher, Jasper K., Lowell, Mich. Knockdown cutter.....	517,855	Apr. 10	723	182	67	154
Fisher, John, St. Paul, Minn. Sleigh-bell.....	523,980	Aug. 7	22	5	68	667
Fisher, John E., assignor to Fisher Axle Company, Boston, Mass. Axle.....	512,246	Jan. 2	852	206	66	161
Fisher, John E., assignor of one-half to C. C. Munroe, Boston, and C. F. Hastings, Somerville, Mass. Thrill-coupling.....	519,470	May 8	966	233	67	734
Fisher, John J. (See Sanner, Henry H., assignor.).....						
Fisher, John W., <i>et al.</i> (See Smith, William R., assignor.).....						
Fisher, Joseph H., Decatur, Ill. Regulator for windmills.....	512,649	Jan. 9	1530	367	66	301
Fisher, Leman C., Wellington, Kans. Door-plate holder.....	512,177	Jan. 2	745	181	66	142
Fisher, Louis F., Willow Springs, Mo. Safety attachment for car-trucks.....	522,365	July 3	324	83	68	64
Fisher, Robert C. (See Avis, Walter H., assignor.).....						
Fisher, Thomas L. (See Williams and Fisher.).....						
Fisher, Thomas N., assignor of three-fourths to A. P. Winslow, Cleveland, Ohio. Latch for sliding gates.....	525,682	Sept. 4	610	145	68	1263

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Fisher, William C., Mount Vernon, N. Y. Sanding device for street-cars.....	531,613	Dec. 25	2705	648	69	1759
Fisher, William J. (See Fry and Fisher.)						
Fisk, Frank H., Albany, N. Y. Ice-cream freezer	525,340	Sept. 4	24	6	68	1155
Fisk, Frederick C., Buffalo, N. Y. Support for trolley-wires	527,840	Oct. 23	1913	460	69	399
Fisk, Henry M., Chicago, Ill. Combined annunciator and spring-jack	521,461	June 19	1278	297	67	1461
Fiske, Bradley A., U. S. Navy. Method of and apparatus for range-finding	523,721	July 31	2697	668	68	564
Fiske, Bradley A., U. S. Navy. Electrical signaling system	527,958	Oct. 23	2146	516	69	442
Fiske, Bradley A., U. S. Navy, assignor to Western Union Telegraph Company, New York, N. Y. Printing-telegraph	529,484	Nov. 20	1743	{ 414 415 }	69	1002
Fisko, Jonathan P. B., Lynn, Mass., assignor to General Electric Company, of New York. Transmission of electricity	516,804	Mar. 20	1772	418	66	1813
Fiske, Jonathan P. B., Lynn, assignor to General Electric Company, Boston, Mass. Transmission of electricity	516,805	Mar. 20	1773	418	66	1814
Fiske, Jonathan P. B., Lynn, assignor to General Electric Company, Boston, Mass. Rheostat	518,236	Apr. 17	1381	{ 346 347 }	67	286
Fiske, Jonathan P. B., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Combined truck and hoist	518,235	Apr. 17	1380	346	67	285
Fison, Percy L., and H. Illingworth, Ripon, England. Envelope for carrying coins	522,753	July 10	1014	251	68	207
Fitch, Calvin M., Chicago, Ill. Ore-concentrating and gold-saving apparatus	524,586	Aug. 14	1059	{ 261 262 }	68	872
Fitch, Charles M., South Norwalk, Conn. Electric switch for railways	529,164	Nov. 13	1146	277	69	875
Fitch, Charles M., South Norwalk, Conn., assignor to Fitch Excelsior Switch Company, of New Jersey. Electric railway-switch	516,731	Mar. 20	1671	396	66	1795
Fitch Excelsior Switch Company. (See Baldwin, Rollin A., assignor.)						
Fitch Excelsior Switch Company. (See Fitch, Charles M., assignor.)						
Fitch, Ezra C., Newton, Mass. Watchcase-pendant	513,907	Jan. 30	3615	891	66	817
Fitch, Ezra C., Newton, Mass. Watch-movement box	517,647	Apr. 3	386	92	67	75
Fitch, Frederick K. (See McGitighe, Thomas J., assignor.)						
Fitch, Frederick K. (See McGitighe and Childs, assignors.)						
Fitch, Thaddeus S., San Francisco, Cal. Fruit-carrier	521,141	June 5	690	162	67	1321
Fitz-Gerald, Desmond G., London, England. Producing electrodes	524,710	Aug. 21	1271	.....	68	924
Fitzgerald, David. (See Pugsley, William E., assignor.)						
Fitzgerald, Helen M., et al. (See Fitzgerald, William, assignor.)						
Fitzgerald, James W., Maysville, Ky. Stallion-shield	521,462	June 19	1279	298	67	1461
Fitzgerald, John H., Frankfort, W. Va., and M. A. Gaugh, Newport, Ky. Curtain-fixture	518,918	Apr. 24	2560	633	67	513
Fitzgerald, John J., et al. (See Fitzgerald, William, assignor.)						
Fitzgerald, Peter J., Hyde Park, Mass. Vapor-burner	523,766	July 31	2771	{ 687 688 }	68	578
Fitzgerald, Walter S., Danville, Ky. Wire-stretcher	529,374	Nov. 20	1530	366	69	966
Fitzgerald, William, assignor of one-half to O. N. Mowrer, Marion, Ind. Undertaker's trimming-table	525,979	Sept. 11	1147	261	68	1373
Fitzgerald, William, assignor of three-fourths to W. E., J. J., and H. M. Fitzgerald, Everett, Mass. Shaking and dumping grate	518,779	Apr. 24	2330	578	67	470
Fitzgerald, William E., et al. (See Fitzgerald, William, assignor.)						
Fitzgibbons Boiler Company. (See Fitzgibbons, Patrick, assignor.)						
Fitzgibbons, Patrick, assignor to Fitzgibbons Boiler Company, Oswego, N. Y. Steam-generator	530,889	Dec. 11	1410	336	69	1487
Fitzgibbons, Patrick, assignor to Fitzgibbons Boiler Company, Oswego, N. Y. Fine-cleaner	530,890	Dec. 11	1413	336	69	1487
Fitzhugh, Bessie V., Bowling Green, Ky. Combination book-rest and table or stand	518,594	Apr. 24	2004	497	67	413
Fitzhugh, William L. (See Harding and Fitzhugh.)						
Fitzhugh, William L., Baltimore, Md. Vacuum-brake	517,819	Apr. 3	669	167	67	130
Fitzhugh, William L., Baltimore, Md. Hydraulic car-brake	527,743	Oct. 16	1753	422	69	353
Fitzhugh, William L., Baltimore, Md., assignor to Russ Car Fender Company, of West Virginia. Car-fender and automatic brake	517,798	Apr. 3	637	159	67	124
Fitzpatrick, Thomas B., Newton, Mass. Merchandise-truck	530,030	Nov. 27	2681	644	69	1188
Fitzsimmons, Mathew, Ironwood, Mich. Safety-guard for freight-cars	517,519	Apr. 3	169	38	67	35
Fitzsimmons, Thomas J. (See Moore and Fitzsimmons.)						
Fitzsimmons, Philip, assignor of one-half to P. H. Linnehan, Birmingham, Ala. Telephone-transmitter	514,920	Feb. 20	1572	395	66	1182
Fix, Frederick W., Syracuse, N. Y. Machine for molding confections	518,059	Apr. 10	1073	{ 271 272 }	67	212
Flagg, George H. P. (See Perry, Anstin E., assignor.)						
Flagg, George H. P. (See Warren, Frank H., assignor.)						
Flagg, John H. (See Lockwood, William C., assignor.)						
Flagg Manufacturing Company. (See Ericson, Lewis E., assignor.)						
Flagg, Merritt B. (See Shepherd and Flagg.)						
Flammang, Mathias, Newark, N. J., assignor to Scovill & Adams Company, of Connecticut. Panoramic camera	527,841	Oct. 23	1914	460	69	399
Flammang, Mathias, Newark, N. J., assignor to Scovill & Adams Company, of Connecticut. Plate-holder	530,100	Dec. 4	39	11	69	1222
Flanagan, James H. (See La Pointe, Flanagan, and Thompson.)						
Flanagan, William B. (See Enos, Charles W., assignor.)						
Flanders, John J., Portland, Me. Pulp-screen	522,463	July 3	498	{ 127 128 }	68	99
Flanders, Timothy D., Holyoke, Mass. Support for spinning-spindles	515,203	Feb. 20	2013	502	66	1263
Flanigan, Robert, Baltimore, Md. Seaming-machine for sheet-metal ware	513,994	Feb. 6	36	7	66	861
Flanigan, Robert, assignor of one-half to J. S. Detrick, Baltimore, Md. Closure for bottles	521,788	June 26	1847	440	67	1582
Flaniken, Wallace T., Tehuacana, Tex. Unloading device	525,951	Sept. 11	1090	249	68	1361
Flannery, Martin C., Washington, D. C. Laying tiles	512,579	Jan. 9	1408	340	66	278
Plath, Daniel, et al. (See Grunwald, Ludwig, assignor.)						
Flather, Joseph, Nashua, N. H. Adjustable stop for taper-turning lathes	520,918	June 5	304	74	67	1252
Flavell, Denis A., New York, N. Y., assignor to M. A. Metcalf, Boston, Mass. Pamphlet-stapling machine	516,156	Mar. 6	677	{ 159 160 }	66	1520
Fleck, Peter. (See Remick and Fleck.)						
Flegel, Mahlon P. (See Rothbrock, Isaac N., assignor.)						
Fleiner, Hermann, Chicago, Ill. Siphon	523,739	July 31	2726	675	68	569
Fleischer, Sigmund L., et al. (See Spengler, Reinhart, assignor.)						
Fleming, Allison H., Fairmount, W. Va. Watchmaker's tool	525,810	Sept. 11	851	194	68	1319
Fleming, Clifford A. (See Fleming, Peter F. and C. A.)						
Fleming, David. (See McGhee, James and C., assignors.)						
Fleming, Hugh N., Erie, Pa. Mail-bag catcher	527,548	Oct. 16	1435	{ 349 350 }	69	295
Fleming, James H., Newark, N. J. Watchcase-spring	522,320	July 3	248	66	68	50

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Fleming, James W., Columbus, Ohio. Race bulletin and displaying device.....	522,980	July 17	1388	346	68	294
Fleming, John J. (See Phillips, Fleming, and Browning.)						
Fleming, Lizzie B., Pierce City, Mo. Wheel-cleaner.....	531,171	Dec. 18	1924	458	69	1595
Fleming, Peter F. and C. A., Huntsville, Mo. Horse hay-rake.....	526,807	Oct. 2	226	55	69	43
Fleming, Samuel W., and J. W. Ressler, Delphos, Ohio. Lifting-jack.....	513,774	Jan. 30	3411	841	66	775
Fleming, Thomas E. (See Dodge, Josiah B., assignor.)						
Fleming, Wilfrid H., Bayonne, N. J. Dynamo-brush.....	513,611	Jan. 30	3143	772	66	726
Fleming, Will A., San Francisco, Cal. Harness.....	531,172	Dec. 18	1925	458	69	1596
Fleming, William, Athens, Ga. Variable friction-feed mechanism for sawmills.....	514,314	Feb. 6	587	146	66	963
Fleming, William, Newberry, Pa. Trigger for double-barreled guns.....	521,021	June 5	476	114	67	1282
Flemming, William Y. (See Ferguson and Fleming.)						
Flemming, James, Buffalo, N. Y. Music-leaf turner.....	530,031	Nov. 27	2683	645	69	1188
Flesher, Thomas, Dunkirk, N. Y. Vine-fastener.....	527,959	Oct. 23	2149	517	69	443
Fletcher, Charles R., Boston, Mass. Method of and apparatus for electrodeposition of metals.....	527,110	Oct. 9	707	173	69	147
Fletcher, Florence M., Knighton, assignor to C. E. Whitmore and C. D. Price, Leicester, England. Attachment for ladies' dresses for protecting bands of flowers.....	517,568	Apr. 3	251	58	67	49
Fletcher, Frederick W., London, England. Stopper or cap for bottles.....	528,470	Oct. 30	3046	739	69	619
Fletcher, Henry C. (See Turner and Fletcher.)						
Fletcher, John W. (See McCarty, William F. M., assignor.)						
Fletcher, Wendell C., St. Louis, Mo., assignor to N. P. Willard, trustee, Chicago, Ill. Electrical train-brake.....	520,108	May 22	2039	497 498 499	67	961
Fletcher, Wendell C., assignor of one-half to E. W. Moon, St. Louis, Mo. Electric elevator-motor.....	530,032	Nov. 27	2685	645 646	69	1189
Fletcher, Wesley H. (See Rollason, Sarah J., assignor.)						
Fletcher, William, Jr., Elizabethtown, Pa. Axle-making machine.....	514,820	Feb. 13	1404	354	66	1137
Fleuss, Henry A., London, England. Compression or exhaust pump.....	517,337	Mar. 27	2687	631	66	2007
Flexible Door and Shutter Company. (See Brown, Edwin, assignor.)						
Flexible Door and Shutter Company. (See Spaulding, Algenon S., assignor.)						
Fliess, Rudolf. (See Van Berkel and Fliess.)						
Flinn, Richard J., assignor of one-half to E. R. Coburn, Boston, Mass. Steam-trap.....	514,883	Feb. 13	1509	378	66	1156
Flint, Adelbert W. (See Gates, William, assignor.)						
Flint, Joseph A., assignor of one-half to P. J. Horan, San Francisco, Cal. Fireproof tile construction for wooden buildings.....	525,097	Aug. 28	1965	480	68	1064
Flint, Seth M., Worcester, N. Y. Flower-holder for florists' use.....	522,520	July 3	589	151	68	116
Flocke, Robert, Newark, N. J., assignor to G. Bernheim, New York, N. Y. Trunk-fastener.....	530,406	Dec. 4	577	143	69	1320
Floodquist, Carl W., Stockholm, Sweden. Apparatus for the manufacture of cellulose.....	525,540	Sept. 4	379	92	68	1221
Floori, Christian, et al. (See Brombacher, Emil, assignor.)						
Flomerfelt, James A., New York, N. Y. Cuff-button.....	518,595	Apr. 24	2004	497	67	413
Flood, Edward L., Savoy, Ark. Combined stove-hearth and ash-box.....	520,591	May 29	2873	695	67	1131
Flood, Matthew, Albany, N. Y. Air-compressing apparatus.....	519,383	May 8	815	198 199	67	709
Florence, George, assignor of one-half to R. D. Cole, Sr., Newnan, Ga. Twine-machine.....	530,891	Dec. 11	1415	336	69	1488
Florence, George L., assignor of one-half to A. Cannon, Poughkeepsie, N. Y. Gate or door.....	520,261	May 22	2323	564	67	1011
Florence, William G., and J. H. Bennett, Newark, N. J. Compound rotary steam-engine.....	525,341	Sept. 4	26	6	68	1156
Florin-Leclercq, Jules A. J., Roubaix, France. Machine for dyeing slivers, &c., direct from combs.....	530,831	Dec. 11	1318	317	69	1471
Flory, Charles L. (See Younce, Daniel B., assignor.)						
Flos, Charles F. F., Brooklyn, N. Y. Shade-roller bracket.....	523,203	July 17	1787	449	68	367
Floto, Henry. (See McKim, George W., assignor.)						
Flower, Mark D., and W. G. Denney, South St. Paul, assignor to St. Paul Clay Car Seal Company, St. Paul, Minn. Car-seal.....	513,908	Jan. 30	3616	891	66	817
Flower, Walter C. (See Le Gresley-Cox, Ernest, assignor.)						
Flowers, A. E. (See Fulton, David, assignor.)						
Flowers, Benjamin F. (See Kinnaman, Edward H., assignor.)						
Flowers, Julius W., Newport, Oreg. Vise.....	515,545	Feb. 27	2592	641	66	1384
Flowers, Julius W., Newport, Oreg. Shingle-bracket.....	518,838	Apr. 24	2424	601	67	486
Floyd, Baltimore, Md., assignor of two-fifths to E. Schaefer, Lynchburg, Va. Nail or spike.....	519,810	May 15	1545	377	67	854
Floyd, Wells & Co. (See Brooke, Isaac, assignor.)						
Fluck, Charles L. (See Rhoades and Fluck.)						
Fluke, John W., et al. (See Blakeley, John D., assignor.)						
Flynn, Peter H., Syracuse, N. Y. Adjustable perforator and cutter for business-envelopes.....	526,347	Sept. 18	1773	421	68	1503
Focht, George, Jr., Hoboken, N. J. Bicycle-wheel.....	516,482	Mar. 13	1229	294	66	1697
Foehl, Charles, assignor of one-half to H. Ruhland, Philadelphia, Pa. Revolver.....	530,759	Dec. 11	1207	294	69	1449
Foerste, Albert, Berlin, Germany. Form of ships.....	519,628	May 8	1252	301	67	726
Foerste, Albert, Berlin, Germany. Ship.....	523,518	July 24	2345	589	68	484
Fogg, George O., Boston, Mass. Sign-staff.....	518,780	Apr. 24	2332	578	67	470
Foglesong, Washington, assignor to Baker & Foglesong Manufacturing Company, Dayton, Ohio. Machine for making paper vessels.....	519,153	May 1	380	91 92 93	67	611
Foglesong, Washington, assignor to Baker & Foglesong Manufacturing Company, Dayton, Ohio. Fastening device for paper vessels.....	519,571	May 8	1153	278 279	67	769
Foiret, Alphonse A., Nice, France. Magazine-camera.....	524,802	Aug. 21	1427	349	68	953
Foix, Louis, Ysleta, Tex. Lifting-jack.....	525,890	Sept. 11	1007	227	68	1347
Foland, Charles G., Oneida, N. Y. Culinary frying-frame.....	528,446	June 5	165	37	67	1227
Foley, John P., B. H. Dunshee, and D. H. Anderson, Phillipsburg, Mont. Ore separator and classifier.....	517,799	Apr. 3	640	160	67	124
Foley, Michael, assignor to Standard Furniture Company, Herkimer, N. Y. Type-writer cabinet.....	527,272	Oct. 9	983	238	69	197
Folger, Arthur, and W. H. Winder, Cincinnati, Ohio. Game-counter.....	529,118	Nov. 13	1065	257	69	860
Folin, Claes E. V., Hammarby, Sweden. Machine for removing bark, &c.....	528,664	Nov. 6	260	64	69	692
Folk, Samuel E., Bryan, Ohio. Vapor-burner.....	513,909	Jan. 30	3617	891 892	66	817
Follenius, Reinhold H., St. Louis, Mo. Name or inscription plate for monuments, signs, &c.....	527,744	Oct. 16	1755	423	69	353
Follett, Joseph L., New York, N. Y. Sewing-machine.....	512,105	Jan. 2	626	150 151	66	120
Folsom, George A. (See Folsom, Rufus, assignor.)						
Folsom, George F., assignor to H. M. Esselen, manager, Boston, Mass. Snow-guard.....	512,178	Jan. 2	746	182	66	142
Folsom, George F., assignor to H. M. Esselen, manager, Boston, Mass. Snow-guard.....	512,179	Jan. 2	747	182	66	143

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Folsom, H. J. (See Appleyard, Arthur E., assignor.)						
Folsom, Rufus, Chelsea, assignor of one-half to G. A. Folsom, Boston, Mass. Vessel and propelling mechanism therefor	518,028	Apr. 10	1019	257	67	204
Foltz, Irving E., Rockford, Ill. Making ornamental screens	525,593	Sept. 4	458	110	68	1237
Fonda, Arthur S., Whitewater, Wis. Clothes-line reel	524,167	Aug. 7	345	81	08	724
Fonda, Isaac I., Boston, Mass. Bicycle-stand	529,827	Nov. 27	2315	551	69	1117
Fong, Chu, New York, N. Y. Making beverages from rice	528,514	Oct. 30	3117		69	632
Fontaine, Antime, Northampton, Mass. Corner-bracket	515,204	Feb. 20	2014	502	66	1263
Fontneau, Frank, Attleborough, Mass. Press-strainer for tea or coffee pots	519,108	May 1	287	68	67	590
Foos, John. (See Voll, Henry, assignor.)						
Footte, Edward D. (See Diessel and Footte.)						
Footte, Herbert W., Brooklyn, N. Y., assignor of four-fifths to A. L. Clarke, Elizabeth, N. J. Tie-plate	512,180	Jan. 2	748	182	66	143
Footte, James H., Cincinnati, Ohio. Sash-fastener	524,379	Aug. 14	725	176	68	810
Footte, James H., Cincinnati, Ohio. Pulley-casing for window-frames	527,111	Oct. 9	709	173	69	147
Footte, Willis O. (See Diessel and Footte.)						
Forbes, Alexander, Jersey City, N. J., and A. G. O'Neil, New York, N. Y., assignors to Peter Henderson & Company, of New Jersey. Secc-rack	515,580	Feb. 27	2644	657	66	1395
Forbes, Charles H., Philadelphia, Pa. Shade	515,048	Feb. 20	1765	445	66	1216
Forbes, Emma L. (See Wendt, William C., assignor.)						
Forbes, George, Niagara Falls, N. Y. Dynamo-electric machine	518,944	May 1	15	4	67	539
Forbes, George, Niagara Falls, N. Y. Dynamo-electric machine	518,945	May 1	16	4, 5	67	539
Forbes, George, Niagara Falls, N. Y. Construction of solenoids or coils of wire used in electric machinery	518,946	May 1	18	5	67	540
Forbes, George, London, England. Commutator-brush for dynamos	529,784	Nov. 27	2234	532	69	1101
Forbes, John, Halifax, Canada. Skate	522,321	July 3	249	66	68	50
Forbes, John, London, England. Umbrella-rib retainer	529,255	Nov. 13	1317	{ 316 } { 317 }	69	905
Forbes, Walter T., Atlanta, Ga. Apparatus for treating ramie	519,422	May 8	882	213	67	721
Forbes, Walter T., Atlanta, Ga. Apparatus for extracting oil from cotton-seed	519,424	May 8	885	214	67	722
Forbes, Walter T., Atlanta, Ga. Extracting apparatus	531,103	Dec. 18	1801	432	69	1573
Forbes, Walter T., Jersey City, N. J. Apparatus for treating ramie or other fibrous growths	519,423	May 8	883	214	67	721
Forbes, William D., Hoboken, assignor to A. A. Griffing Iron Company, Jersey City, N. J. Machine for milling and tapping metal	512,542	Jan. 9	1354	327	66	267
Forbes, William D., Hoboken, assignor, by mesne assignments, to H. B. Miller, trustee, Montclair, N. J. Register for street-cars	526,567	Sept. 25	2168	518	68	1587
Forbes, William H. (See Wendt, William C., assignor.)						
Forbus, George, Williamsport, Pa. Hanger for trolley-wires	515,907	Mar. 6	274	64	66	1505
Forbush, Walter R., Boston, Mass. Artificial lithographic and hectographic stone	516,370	Mar. 13	1049		66	1663
Forbush, Walter R., Boston, Mass. Composition for building constructions	531,369	Dec. 25	2238		69	1678
Force & Co., William A. (See Chase, Henry A., assignor.)						
Force & Co., William A. (See Spielmann, Charles, assignor.)						
Ford, Albert. (See Low, Isaac W., assignor.)						
Ford, Alfred N., London, England. Manufacturing insulating compositions for electrical purposes	530,517	Dec. 11	797		69	1377
Ford, Benjamin F., New Castle, Me. Sink	521,406	June 12	1159	275	67	1424
Ford, Bruce, Johnstown, Pa. Electric-arc lamp	515,205	Feb. 20	2015	502	66	1263
Ford, Charles E., Leavenworth, Kans. Bicycle	519,252	May 1	565	137	67	647
Ford, Charles E., Cincinnati, Ohio. Rein-support	531,173	Dec. 18	1926	452	69	1596
Ford, Edward, assignor of one-half to Pittsburg Plate Glass Company, Creighton, Pa. Grinding and polishing machinery	521,953	June 26	2146	{ 514 } { 515 }	67	1640
Ford, Edward L., Youngstown, Ohio. Metallurgical plant	513,099	Jan. 23	2282	{ 551 } { 552 }	66	527
Ford, Edward L., Youngstown, Ohio. Furnace	513,100	Jan. 23	2283	552	66	527
Ford, Ellsworth, New Haven, Conn. Expansible bit	525,386	Sept. 4	115	30	68	1171
Ford, George W., Cleveland, Ohio. Rack for displaying samples of paint	512,691	Jan. 16	1600	324	66	329
Ford, Johnson & Co. (See Morris, Henry B., assignor.)						
Ford, Johnson & Co. (See Morris, Henry B. and E., assignors.)						
Ford, Robert, Sr., Earling, Iowa. Wagon-brake lock	526,620	Sept. 25	2251	538	68	1603
Ford, Simeon J., Placerville, Cal. Car-coupling	518,140	Apr. 10	1201	301	67	235
Ford, William A., Indianapolis, Ind. Sole	518,060	Apr. 10	1075	272	67	213
Ford, William H., Shelton, Conn. Driving and steering action for cycles	511,839	Jan. 2	145	37	66	31
Fordham & Smith. (See Lane, Edward S., assignor.)						
Fordyce, Edmond A. (See Bostedo and Fordyce.)						
Fordyce, Edmond A., Chicago, Ill. Receiving-box for pneumatic dispatch-tubes	525,594	Sept. 4	460	110	68	1237
Fore, John R. (See Culbreath, Walter W., assignor.)						
Forest, William E., New York, N. Y., assignor to Livgro Incandescent Lamp Company, of New Jersey. Incandescent electric lamp	523,204	July 17	1789	449	68	367
Forestell, Walter S. (See White and Forestell.)						
Forhan, Thomas. (See Wallingford and Forhan.)						
Forman, Henry, Chellaston, England. Plow or cultivator	521,022	June 5	478	114	67	1283
Formander, Alfred, New York, assignor to E. Faber, West New Brighton, N. Y. Blotting-pad	526,365	Sept. 18	1823	432	68	1512
Forney, Matthias N., New York, N. Y. Steam-boiler	518,399	Apr. 17	1673	413	67	339
Forney, Matthias N., New York, N. Y. Car-seat	527,842	Oct. 23	1916	{ 460 } { 461 }	69	400
Forney, Matthias N., New York, N. Y. Locomotive-axle box	527,960	Oct. 23	2150	517	69	443
Forney, Matthias N., New York, N. Y. Means for counterbalancing momentum of reciprocating elements	528,294	Oct. 30	2738	{ 661 } { 662 }	69	564
Forrest, Harry C. (See Darling, James D., assignor.)						
Forrester, Carriel, and A. H. Doneken, assignors of one-third to J. H. Thissen, Omaha, Nebr. Brick-kiln	512,106	Jan. 2	633	152	66	121
Forrester, William H., assignor of one-half to G. C. Humphrey, Syracuse, N. Y. Folding washbench and clothes-bar	518,186	Apr. 10	1279	323	67	249
Forsberg, Carl A., assignor of one-half to S. A. Roberts, New Whatcom, Waah. Striking-bag	524,894	Aug. 21	1577	385	68	979
Forsell, Frans E., Providence, R. I. Lock	530,935	Dec. 18	1490	353	69	1517
Forsgren, Ernst L., New York, N. Y. Trunk	519,179	May 1	430	{ 105 } { 106 }	67	621
Forst, Moritz, New York, N. Y. Newspaper-stand	523,934	July 31	3080	767	68	637
Forst, Moritz, New York, N. Y. Walking-cane	524,678	Aug. 14	1214	296	68	901
Forster, Thomas V. (See Hart, Milton H., assignor.)						
Forster, William E., and E. H. Taylor, Lynn, Mass.; said Taylor assignor to said Forster. Beating-out machine	513,385	Jan. 23	2743	668	66	618

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Forstner, Thomas, New Ulm, Minn. Drilling-machine	512,235	Jan. 9	920	224	66	186
Forstner, Thomas, New Ulm, Minn. Car-coupling	512,236	Jan. 9	923	224	66	187
Forstner, Thomas, New Ulm, Minn. Windmill	515,863	Mar. 6	203	49	66	1492
Forsyth, Daniel M., Franklin, Ind. Harness	523,981	Aug. 7	23	6	68	667
Forsyth, Henry H., Sr., Henry H., Jr., and W. H., Chicago, Ill. Holding mechanism for spring-actuated shades	524,060	Aug. 7	153	34	68	690
Forsyth, Samuel, <i>et al.</i> (See Terhune, Eugene A., assignor.)						
Forsyth, Wilber D., and E. T. Bell, Dublin, Ind. Device for cleaning the interiors of boiler-tubes	526,997	Oct. 2	532	131	69	100
Forsyth, William H. (See Forsyth, Henry H., Sr., Henry H., Jr., and W. H.)						
Forsythe, Andrew J., Kokomo, Ind. Wire-fence machine	519,603	May 8	1203	290	67	778
Forsythe, Seneca. (See Hendricks and Forsythe.)						
Fort, Foster W. (See Kellner, Eugene, assignor.)						
Forth, Charles, and H. Glenzer, Cleveland, Ohio, assignors to E. L. Thurston, trustee. Mech- anism for justifying matrix-lines	520,140	May 22	2114	{ 515 516 }	67	972
Fortin, Jules E., assignor to E. Pare and J. P. Roy, Quebec, Canada. Leather-measuring machine	514,821	Feb. 13	1406	{ 354 355 }	66	1137
Fosgate, Daniel O., assignor of one-half to F. E. Merrill, Aurora, Ill. Corn cutter and shocker	513,495	Jan. 30	2942	{ 724 725 }	66	689
Fosmer, William H. (See McDonald, Alexander J., assignor.)						
Foss, Edgar B. (See Church, Dwight M., assignor.)						
Foss, Edgar B., <i>et al.</i> (See Church, Dwight M., assignor.)						
Foss, Edgar B., <i>et al.</i> (See Church, Dwight M., assignor.) (Reissue.)						
Foss, John H., Passaic, N. J. Inside shoe	520,417	May 29	2575	623	67	1076
Foster, Albert W., Akron, assignor of one-half to F. A. Foster, Canton, Ohio. Clothes- line reel	523,853	July 31	2933	731	68	608
Foster, Alexander W., assignor to Singer, Nimick & Company, Limited, Pittsburg, Pa. Machine for drawing metal	527,486	Oct. 16	1333	325	69	278
Foster, Alfred F., Alton, Ill. Screw-dummy for sewer-pipe dies	521,445	June 12	1239	{ 292 293 }	67	1438
Foster, Benjamin W., and B. S. Leeds, England. Drying apparatus	524,039	Aug. 7	117	25, 26	68	683
Foster, Benjamin R., St. Louis, Mo. Soap-powder canister	527,329	Oct. 9	1070	258	69	213
Foster, Benjamin S. (See Foster, Benjamin W., and B. S.)						
Foster, Charles E., Washington, D. C., assignor to National Company, Chicago, Ill. Con- trolling device for elevators	530,936	Dec. 18	1491	353	69	1518
Foster, Charles H., New York, N. Y., assignor to Singer Manufacturing Company of New Jersey. Sewing-machine guide	530,173	Dec. 4	160	42	69	1244
Foster, Charles I., Meriden, Conn., assignor of one-half to G. A. Foster. Ice-lowering ap- paratus. (Reissue)	11,425	July 3	683	173	68	133
Foster, David A., Indianapolis, Ind. Vehicle running-gear	518,809	Apr. 24	2383	{ 589 590 }	67	479
Foster Engineering Company. (See Foster, John M., assignor.)						
Foster, Festus. (See Hadley and Foster.)						
Foster, Frank A. (See Foster, Albert W., assignor.)						
Foster, George A. (See Foster, Charles I., assignor.) (Reissue.)						
Foster, George A., and C. E. Hoffman, New Albany, Ind. Dental plugger	513,362	Jan. 23	2707	657	66	610
Foster, George T., Rochester, N. Y. Safety-guard for street-cars	514,121	Feb. 6	227	52, 53	66	897
Foster, Glombard S. (See Murphy, Edward E., assignor.)						
Foster, Hiram A., assignor of one-half to E. W. Thomas, Lowell, Mass. Spindle for loom- shuttles	515,206	Feb. 20	2016	503	66	1264
Foster, James A., Fulton, N. Y. Skinning-knife	525,737	Sept. 11	728	168	68	1297
Foster, John M., assignor to Foster Engineering Company, Elizabeth, N. J. Safety check- valve	525,196	Aug. 28	2133	520	68	1094
Foster, John W., Westfield, Mass. Spooling-machine	514,884	Feb. 13	1512	{ 378 379 }	66	1156
Foster, John W., Westfield, Mass. Cone-holder for warping or other machines	514,885	Feb. 13	1515	379	66	1157
Foster, John W., Westfield, Mass. Tube-holder for thread-winding machines	514,886	Feb. 13	1516	380	66	1157
Foster, John W., assignor to Foster Machine Company, Westfield, Mass. Machine for winding thread	527,602	Oct. 16	1524	369	69	311
Foster, John W., assignor to Foster Machine Company, Westfield, Mass. Thread-winding machine	529,548	Nov. 20	1859	442	69	1023
Foster, Lucian M., Boston, assignor to B. Poole, Topsfield, Mass. Registering ballot-box	520,482	May 29	2688	651	67	1096
Foster, Lucian M., Boston, assignor to B. Poole, Topsfield, Mass. Registering ballot-box	530,034	Nov. 27	2689	{ 646 647 }	69	1189
Foster Machine Company. (See Foster, John W., assignor.)						
Foster, Merriam & Company. (See Sutfill, James R., assignor.)						
Foster, Morrison, Sewickley, Pa. Pumping machinery	517,449	Apr. 3	63	13, 14	67	14
Foster, Oscar S., Utica, N. Y. Spring-bed	526,831	Oct. 2	264	64	69	50
Foster, Oscar S., Utica, N. Y. Chair-seat	529,485	Nov. 20	1749	415	69	1003
Foster, Oscar S., Utica, N. Y. Bedstead-fastening	529,486	Nov. 20	1750	415	69	1003
Foster, Stephen A., Toledo, Ohio, assignor of one-half to W. B. McClaren, Frankfort, Ind. Seal	531,174	Dec. 18	1928	459	69	1596
Foster, Theodore W., Providence, R. I. Combined match-box and cigar-tip cutter	517,546	Apr. 3	213	49	67	43
Foster, William. (See Foster, Benjamin W., and B. S.)						
Foster, William C., La Crosse, Wis. Velocipede	526,775	Oct. 2	179	42	69	34
Foster, William J., Hoboken, N. J. Safety-guard for railway-cars	512,181	Jan. 2	749	{ 182 183 }	66	143
Foster, William S., Dallas, Wis. Trunk	526,568	Sept. 25	2170	518	68	1587
Foster, Zebulon, Chicago, Ill. Supply system for electric railways	530,033	Nov. 27	2687	646	69	1189
Foucault, Henri, Canton, assignor of one-half to E. Block & Co., Cleveland, Ohio. Carpen- ter's plane	529,681	Nov. 20	2066	495	69	1062
Foucher, Auguste, Paris, France. Type-founding machine	526,569	Sept. 25	2171	{ 518 519 }	68	1587
Fongère, Angus, assignor to R. H. Cushing and J. A. Harris, Moncton, Canada. Nut-lock	522,937	July 10	1304	325	68	262
Foulds, John, Jr., Lynn, assignor to General Electric Company, Boston, Mass. Splitting mica	518,237	Apr. 17	1383	347	67	286
Fourman, Emanuel, Arcanum, Ohio. Dirt-loading machine	523,034	July 17	1483	369	68	311
Fourness, Henry, Manchester, England. Water-oil-gas apparatus	526,364	Sept. 18	1814	{ 430 431 }	68	1510
Fournier, Louis J. B., Marseilles, France. Apparatus for manufacturing hollow candles	521,407	June 12	1161	{ 275 276 }	67	1424
Fouse, Levi G., Philadelphia, Pa. Calendar-holder	522,251	July 3	131	31	68	25
Fouts, George S., Aberdeen, Wash. Grip-block	523,273	July 17	1905	479	68	329

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Fowden, Robert A., Philadelphia, Pa., assignor to Fowden Printing Telegraph Company, Trenton, N. J. Printing-telegraph.....	524,711	Aug. 21	1273	{ 313 314 }	{ 68 }	924
Fowden Printing Telegraph Company. (See Fowden, Robert A., assignor.)						
Fowell, Harry, Belleville, Canada. Aerator.....	526,998	Oct. 2	533	131	69	100
Fowler, Alfred B., and G. E. Warren, Exeter, N. H. Tack-pulling attachment for sewing-machines.....	520,775	June 5	24	5	67	1201
Fowler, Benjamin F., Minneapolis, Minn. Device for carrying off odors from cooking-vessels.....	512,650	Jan. 9	1531	367	66	302
Fowler, Charles M., Lowell, Mass. Window-fastener.....	524,803	Aug. 21	1429	{ 349 350 }	{ 68 }	953
Fowler, Charles M., assignor of part to G. M. Thompson and C. B. Cutler, Lowell, Mass. Fire-escape.....	524,481	Aug. 14	892	220	68	842
Fowler, Charles M., and W. Whitoe, Springfield, Mass. Hand-printing device.....	530,304	Dec. 4	401	101	69	1288
Fowler, Edward C., and G. A. Downs, Forestville, Conn. Clamp for lamp-burners.....	520,042	May 22	1923	{ 349 348 }	{ 67 }	939
Fowler, Elbert W., Chicago, Ill. Boltwork for safes.....	526,181	Sept. 18	1488	{ 349 350 }	{ 68 }	1446
Fowler, George, assignor of one-half to J. W. Mathers, Philadelphia, Pa. Heel.....	530,760	Dec. 11	1208	294	69	1450
Fowler, Henry A., <i>et al.</i> (See Turner, William A., assignor.)						
Fowler, Henry A., and J. H. Lingley, Worcester, Mass. Curtain-rod.....	527,273	Oct. 9	984	238	69	197
Fowler, Herbert C., <i>et al.</i> (See Fuller, Franklin P., assignor.)						
Fowler, John W., Northport, N. Y., W. J. England, El-Mora, and A. E. Nielsen, Elizabeth, N. J.; said Nielsen assignor to A. Atkinson, Brooklyn, N. Y. Fare-register.....	527,387	Oct. 9	1165	{ 285 286 }	{ 69 }	231
Fowler & Rockwell. (See Rockwell and Hull, assignors.)						
Fowler, Rufus B., Worcester, Mass. Valve.....	528,933	Nov. 13	763	180	69	806
Fowl Samuel, <i>et al.</i> (See Turner, William A., assignor.)						
Fowler, Samuel O., and W. R. Taylor, Fort Worth, Tex. Curling-iron heater.....	616,004	Mar. 6	438	101	66	1534
Fowler, William, <i>et al.</i> (See Harris, William A., and B. S. H., assignors.)						
Fowler, William M., Milford, Conn. Liquid-dispensing apparatus.....	522,322	July 3	250	66, 67	68	50
Fowler, William R., Baltimore, Md. Safety car-fender.....	515,581	Feb. 27	2646	657	66	1396
Fowler, Willmore W., Oskaloosa, Iowa. Box-lid holder.....	527,274	Oct. 9	986	239	69	197
Fox, Albert M., <i>et al.</i> (See Fox and Yates, assignors.)						
Fox, Ansley H., Baltimore, Md. Breech-loading breakdown gun.....	522,464	July 3	500	127	68	99
Fox, Barbary, Napoleon, Ind. Fire escape.....	522,981	July 17	1390	346	68	294
Fox, Barbary, Napoleon, Ind. Fire-escape.....	527,467	Oct. 16	1335	325	69	278
Fox, Benjamin F. (See Richards, Charles A., assignor.)						
Fox, Charles F. (See Thiele and Fox.)						
Fox, Conrad, Jr. (See Albert and Fox.)						
Fox, Edward, assignor of two-thirds to J. Harris and J. J. McCarthy, St. Louis, Mo. Wheel.....	519,790	May 15	1516	369	67	849
Fox, Edward P., Garner, Iowa. Apparatus for ditching or grading.....	529,026	Nov. 13	915	217	69	832
Fox, Frank A., New York, and A. P. Yates, Syracuse, assignors of one-half to D. H. Roberts, New York, N. Y., and A. M. Fox, Toledo, Ohio. Pyrotechnic railway danger-signal.	520,639	May 29	2944	712	67	1144
Fox, Franklin J., Coraopolis, Pa. Power-hammer.....	513,637	Jan. 30	3192	783	66	735
Fox, George, New York, N. Y. Angle-plate for boiler-fronts.....	520,674	May 29	3022	731	67	1157
Fox, George M., <i>et al.</i> (See Green, Ira L., assignor.)						
Fox, George W., Manchester, England. Manufacture of pipes.....	525,197	Aug. 28	2135	521	68	1094
Fox, Harrison W. (See Fox, Jesse W. and H. W.)						
Fox, Henry, Jr. (See Miner, John C., assignor.)						
Fox, Ivan, Philadelphia, Pa. Eyeglasses.....	527,275	Oct. 9	986	239	69	197
Fox, Jacob G., assignor of one-half to W. F. Brenkelman, Grayling, Mich. Sash-fastener.....	530,266	Dec. 4	335	82	69	1277
Fox, Jesse W. and H. W., Alverton, Pa. Water-regulator for boilers.....	527,417	Oct. 16	1218	298	69	254
Fox, John C., <i>et al.</i> (See Warner, Frank A., assignor.)						
Fox, John C., Chicago, Ill. assignor of two-thirds to P. Thompson, Kansas City, Mo., and F. A. Warner, Chicago, Ill. Elevator.....	520,043	May 22	1924	471	67	940
Fox, John H., Boston, Mass. Device for operating valves for fluid-pressure brakes.....	513,676	Jan. 30	3257	800	66	747
Fox, John H., Jersey City, N. J. Block system for automatically operating air-brakes.....	530,937	Dec. 18	1492	354	69	1518
Fox, John H., Jersey City, N. J. Mechanism for automatically actuating air-brakes.....	530,938	Dec. 18	1495	{ 354 355 }	{ 69 }	1518
Fox, John H., Jersey City, N. J. Dog for actuating air-brakes.....	530,939	Dec. 18	1498	355	69	1519
Fox, John J., New York, N. Y. Pneumatic tire.....	515,908	Mar. 6	275	65	66	1505
Fox, Samson, Harrogate, England, assignor to Fox Solid Pressed Steel Company, Chicago, Ill. Car-truck.....	521,709	June 19	1697	{ 398 399 }	{ 67 }	1539
Fox Solid Pressed Steel Company. (See Barnes, David L., assignor.)						
Fox Solid Pressed Steel Company. (See Fox, Samson, assignor.)						
Fox Solid Pressed Steel Company. (See Mackenzie-Hughes, Edward W., assignor.)						
Fox, William R., Grand Rapids, Mich. Sash-pulley.....	529,256	Nov. 13	1318	317	69	905
Fox, William T., Rochester, N. Y. Water-closet.....	518,753	Apr. 24	2292	569	67	462
Foy, John K., Gardiner, Me. Ice-creeper.....	512,608	Jan. 9	1452	651	66	285
Foy, Lavinia H., New Haven, Conn. Corset.....	523,888	July 31	2990	744	68	619
Frack, Alfred B., Girard, Ohio. Line-tightener.....	530,035	Nov. 27	2694	647	69	1190
Fracker, Willard. (See Rogers and Fracker.)						
Fradenburg, Edward C. (See Cliff, James, assignor.)						
Fraker, William W., Alma, Mich. Oar.....	522,201	July 3	32	8	68	8
Frale, David R., assignor of one-half to G. H. Beall, Winston, N. C. Tobacco-casing machine.....	523,910	July 31	3025	752	68	625
Frale, George B., San Francisco, assignor to J. L. Eckley, Eckley's Station, Cal. Storage-battery.....	513,910	Jan. 30	3620	892	66	817
Frale, William K., Lebanon, Ind. Hoof-trimmer.....	513,910	Jan. 2	272	62	66	53
Frame, John, and R. B. Morden, Cooper, Iowa. Electric burglar-alarm.....	517,450	Apr. 3	65	14	67	14
Frame, Oliver C., Pasadena, Cal. Device for untying bale-wires, &c.....	518,839	Apr. 24	2425	601	67	486
France, John M. D., St. Joseph, Mo. Bill-file.....	514,921	Feb. 20	1573	395	66	1182
Francis, Charles E., Cincinnati, Ohio. Veneer-press.....	524,380	Aug. 14	725	176	68	811
Francis, Edward R., Minneapolis, assignor, by mesne assignments, of one-half to J. N. McGibben, Sauk Centre, Minn. Commutator.....	516,732	Mar. 20	1672	396	66	1795
Francis Fritsch Manufacturing Company. (See Brauer, John, assignor.)						
Francis, George B., and E. P. Dawley, Providence, R. I. Metallic-floor construction.....	523,143	July 17	1678	420	68	348
Francis, George T., Chicago, Ill. Compression-tank.....	527,678	Oct. 16	1645	397	69	333
Francis, Thomas, Stevens' Point, Wis., assignor of one-half to J. S. Seeley, Chicago, Ill. Gage.....	529,613	Nov. 20	1960	466	69	1043
Francisci, Carl, Schweidnitz, Germany. Furnace for distilling zinc.....	526,808	Oct. 2	223	55	69	43
Frank, John W., New Haven, Conn. Meat-tenderer.....	525,595	Sept. 4	460	111	68	1237
Frank, Charles P. (See Speed, Barker, and Frank.)						
Frank, Ferdinand, Calistoga, Cal. Ruler.....	515,522	Feb. 27	2553	633	66	1377

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Frank, François, Chicago, Ill. Combined cap, pillow, and life-preserver	529,119	Nov. 13	1067	258	69	860
Frank, Gustav, Jr., Jefferson, Tex. Treadle-spring	515,760	Mar. 6	43	13	66	1463
Frank, Isaiah, Creston, Iowa. Lifting-jack	511,767	Jan. 2	40	10	66	11
Frank Miller Company. (See Miller, James L., assignor.)						
Frank, William E., St. Louis, Mo. Folding brush	516,483	Mar. 13	1231	295	66	1698
Frank, Charles, Chicago, Ill. Animal-trap	514,068	Feb. 6	143	35	66	881
Frankenberg, Louis A., Columbus, Ohio. Attachment for bicycles	527,549	Oct. 16	1439	350	69	296
Franklin, Albert. (See Franklin, Alvin and A.)						
Franklin, Alvin and A., Westerville, Ohio. Nut and bolt lock	526,697	Oct. 2	42	12	69	11
Franklin, Edward, Boston, Ga. Hand-cultivator	528,425	Oct. 30	2966	718	69	604
Franklin Electric Company. (See Irving, Frank K., assignor.)						
Franklin Engraving and Electrotyping Company. (See Letz, Charles M., assignor.)						
Franklin, Frank A., Evansville, Wis. Windmill	517,854	Apr. 10	721	181	67	153
Franklin, Frank A. and F. L., Evansville, Wis. Windmill	527,276	Oct. 9	928	239	69	197
Franklin, Fred L. (See Franklin, Frank A. and F. L.)						
Franklin, John H., assignor to J. A. Jeffrey, Columbus, Ohio. Conveyer	516,702	Mar. 20	1613	384	66	1785
Franklin, Robert G. (See McLaughlin, James, assignor.)						
Franks, Robert M., Ford's Ferry, Ky. Calf or colt weaner	513,386	Jan. 23	2744	669	66	618
Frantz, Ulrich, Zabize, Germany. Car-tilting device	529,549	Nov. 20	1863	443	69	1024
Franz, Charles, and R. T. Merrill, Beloit, Wis. Ventilator or chimney-cap	530,036	Nov. 27	2695	647	69	1190
Frasch, Hans A., Cleveland, Ohio. Manufacturing ammonia	515,909	Mar. 6	276	65	66	1505
Frasch, Hans A., Cleveland, Ohio. Refining petroleum	525,811	Sept. 11	852		68	1319
Frasch, Hans A., assignor to Grasselli Chemical Company, Cleveland, Ohio. Making concentrated nitric acid	517,098	Mar. 27	2296	541	66	1930
Frasch, Hans A., assignor to Grasselli Chemical Company, Cleveland, Ohio. Petroleum sulfo-acid	518,989	May 1	85		67	552
Frasch, Hans A., assignor to Grasselli Chemical Company, Cleveland, Ohio. Petroleum sulfo-acid	518,990	May 1	87		67	552
Frasch, Hans A., assignor to Grasselli Chemical Company, Cleveland, Ohio. Brown petroleum nitro dye	518,991	May 1	88		67	552
Frasch, Hans A., assignor to Grasselli Chemical Company, Cleveland, Ohio. Petroleum dye	518,992	May 1	90		67	552
Frasch, Hans A., assignor to Grasselli Chemical Company, Cleveland, Ohio. Brown petroleum dye	519,036	May 1	159		67	567
Fraser, Allan, Providence, R. I. Antirattler for thill-couplings	529,525	Nov. 20	1824	434	69	1017
Fraser, Angus W. (See Gordon, James R., assignor.)						
Fraser, David B. (See Miller, John S., assignor.)						
Fraser, David B., New York, N. Y. Machine for hulling, scouring, and cleaning coffee	528,595	Nov. 6	128	30, 31	69	669
Fraser, Henry P., Antioch, Cal. Explosive-engine	526,348	Sept. 18	1777	421	68	1503
Fraser, Horatio N., New York, N. Y. Vessel for collecting precipitates	512,874	Jan. 16	1943	460	66	395
Fraser, Horatio N., New York, N. Y. Holding-ring for respirators	512,952	Jan. 16	2076	492	66	418
Fraser, Joseph C., Manix, Ill. Fence	529,067	Nov. 13	985	234	69	845
Fraser, Peter, Whitman, Mass. Combined seat and folding berth	528,271	Oct. 30	2695	650	69	557
Fraser, Thomas. (See Borbridge, Fraser, and Prenter.)						
Fraser, William E., Osceola, Tex. Pitch-board	529,027	Nov. 13	916	217	69	833
Frauz, Herman E., Baltimore, Md. Steam-generator	527,526	Oct. 16	1402	341, 342	69	289
Frawley, John J., president. (See Barrett, Patrick J., assignor.)						
Frazee, John, assignor to C. A. Worsley, New Orleans, La. Box for cigars or other articles	512,609	Jan. 9	1453	351	66	286
Frazer, Alexander, assignor to Goshen Sweeper Company, Grand Rapids, Mich. Boring-machine	524,138	Aug. 7	295	69	68	716
Frazer, Charles R., San Francisco, Cal., assignor to Pacific Labeling Company, of California. Can-labeling machine	529,257	Nov. 13	1319	317, 318	69	905
Frazer, Francis M. (See Delabarre, Frazer, and Carrick.)						
Frazer, David C., New Market, N. J. Bicycle-gearing	513,101	Jan. 23	2284	553	66	528
Frazeur, David C., New Market, assignor of one-half to J. A. Frech, Somerville, N. J. Power-transmitting mechanism	521,108	June 5	636	149, 150	67	1312
Frazier Cycle Company. (See Kirsch-King, Albert W., assignor.)						
Frazier, Edward S., Aurora, Ill. Bicycle-tire	529,120	Nov. 13	1069	258	69	861
Frazier, James L., Chicago, M. W. Speulda and N. Du Bois, Springfield, said Speulda and Du Bois assignors, by mesne assignments, to Frazier Lock Company, Chicago, Ill. Door-securer	511,840	Jan. 2	148	37	66	31
Frazier, Julius O., assignor of one-half to L. A. Becnel, McCall, La. Fine-cleaner	530,832	Dec. 11	1320	317	69	1471
Frazier Lock Company. (See Frazier, Speulda, and Du Bois, assignors.)						
Freakley, William, Stoke-upon-Trent, England. Furnace	522,340	July 3	283	74	68	57
Frech, John A. (See Frazeur, David C., assignor.)						
Fréchette, Isidore, Montreal, Canada. Hand lasting-tool	519,859	May 15	1624	395	67	869
Frederick, George D., Clarno, Wis. Corn-planter	515,329	Feb. 27	2243	555, 556	66	1318
Frederick, Lawrence N. (See Martin, James, assignor.)						
Frederick, Phillip A. H., and J. M. Riedel, Philadelphia, Pa. Combination-tool for nurling, milling, screw-cutting, turning, and grooving metal	523,854	July 31	2934	731	68	608
Frederick, William B. (See Chope, Thomas, assignor.)						
Fredericks, Jacob H., Newark, N. J. Combined carpenter's bench pin, guide, and knife	521,234	June 12	856	201	67	1365
Frederiksen, Johan D. (See Jensen, Jens S., assignor.)						
Free, Charles C., Colorado Springs, Colo. Stove	519,705	May 15	1379	332	67	823
Free, Charles C., and N. F. Heath, Denver, Colo. Bicycle-lock	527,418	Oct. 16	1219	298	69	254
Freedley, Louis E., Boston, Mass. Electric operating mechanism for vehicles	518,781	Apr. 24	2332	578, 579	67	470
Freeman, Charles A. (See Parker and Freeman.)						
Freeman, Daniel A., Boston, Mass. Safety-guard for street-cars	530,174	Dec. 4	161	42	69	1244
Freeman, Edward B. (See Morton and Freeman.)						
Freeman, George B., Racine, Wis. Machine for making bridle-bits	512,875	Jan. 16	1944	460, 461	66	395
Freeman, George W., Salem, Mass. Bicycle	516,157	Mar. 6	680	160	66	1580
Freeman, Jesse M., Oakland, Cal. Curtain attachment for windows	526,306	Sept. 18	1712	403	68	1491
Freeman, John C., Richmond, Va. Harrow	525,648	Sept. 4	541	131	68	1251
Freeman, Samuel D. (See Smith and Freeman.)						
Freer, Harry H., Pontiac, Mich. Collapsible pail	516,194	Mar. 13	754	176	66	1609
Freese, August H., Boston, Mass. Extensible bed-bottom	531,370	Dec. 25	2389	546	69	1678
Freese, Daniel T., and J. D. Gawn, North Amherst, Ohio. Submarine boat	521,854	June 26	1948	468, 469	67	1602

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Freese, John S., Brooklyn, N. Y. Fishing-reel.....	522,323	July 3	253	67	68	51
Freise, William, <i>et al.</i> (See Platt, Edward T., assignor.)						
Freise, William A., Newark, N. Y. Filter and cleaning same	528,630	Nov. 6	184	45	69	679
Fremont Saddlery Company. (See Thielen, John, assignor.)						
French, Alexander W. (See French, James W. and A. W.)						
French, Alonzo, Romeo, Mich. Ax-helve.....	511,768	Jan. 2	41	11	66	11
French, Arthur S. (See Dixon, Joseph M., assignor.)						
French, Charles E., Manchester, N. H. Ash-sifting machine.....	515,399	Feb. 27	2361	586	66	1341
French, Harry C. (See Klein and French.)						
French, James W. and A. W., Michigan City, Ind. Nut-lock.....	522,888	July 10	1207	300	68	244
French, John C., <i>et al.</i> (See Pratt, Walter C., assignor.)						
French, La Martine M., and C. Nalence, Chicago, Ill. Piano attachment.....	515,426	Feb. 27	2411	597	66	1349
French, Marion. (See Moehn, John N., assignor.)						
French, Philo N., assignor to Morris Box Lid Company, Pittsburg, Pa. Axle-box lid.....	522,050	June 26	2318	557	67	1670
French, Philo N., assignor to A. French Spring Company, Pittsburg, Pa. Spring.....	526,895	Oct. 2	380	95	69	71
French, Samuel R., Farmington, Iowa. Derrick.....	514,355	Feb. 6	640	164	66	973
French, Zachary T., and W. C. Meyer, Boston, Mass. Sewing-machine.....	525,047	Aug. 28	1870	456 457	68	1049
French, Zachary T., and W. C. Meyer, Boston, Mass. Channeling-machine.....	529,900	Nov. 27	2432	584	69	1140
Frenette, Joseph, Chippewa Falls, Wis. Hand-truck.....	522,202	July 3	32	9	68	8
Frenot, Louis D., Newark, N. J. Nut-lock.....	514,315	Feb. 6	588	147	66	963
Frichs, Jurgen, Gilman, Ill. Chimney-regulator.....	517,919	Apr. 10	825	207	67	173
Fretwell, John A., Gainesville, Ga. Bed-brace.....	515,706	Feb. 27	2850	709	66	1435
Fretz, Alva B., Caldwell, N. J. Revolving holder for maps, &c.....	519,763	May 15	1464	355	67	839
Fretz, Samuel S. (See Price and Fretz.)						
Fretz, Samuel S., and J. B. Jesson, Philadelphia, Pa.; said Jesson assignor to said Fretz. Umbrella-runner retainer.....	530,037	Nov. 27	2696	647	69	1190
Frey, Benedict, assignor to H. Maurer, New York, N. Y. Glaze for clay articles.....	517,609	Apr. 3	312		67	61
Frey, Cornelius E. (See Davis, William W., assignor.)						
Frey, George W., <i>et al.</i> (See Wilson, James N., assignor.)						
Frey, Milton E. (See Ruby and Frey.)						
Freyer, Charles H., London, England. Oil-purifying apparatus.....	516,703	Mar. 20	1615	384	66	1785
Friant, Thomas, <i>et al.</i> (See Billings, George W., assignor.)						
Friant, Thomas, <i>et al.</i> (See Childs, Charles H., assignor.)						
Friant, Thomas, <i>et al.</i> (See Raymond, Emma H., assignor.)						
Frichette, Petar, Sheridan, Cal. Mechanical motor.....	514,356	Feb. 6	642	164	66	974
Frick, Frederick. (See McCaskey, John L., assignor.)						
Frick, Henry, Granger, Iowa. Wire reel and stretcher.....	519,037	May 1	160	38	67	567
Frick, Louis C. S., Buffalo, N. Y. Stuffing-box.....	518,210	Apr. 24	2387	590	67	479
Fricke, Harry C., Pittsburg, Pa. Fastener for electric wires.....	525,891	Sept. 11	1008	227	68	1347
Fridlund, Lewis. (See Johnson and Fridlund.)						
Fridrich, George W., St. Louis, Mo. Hot-air furnace.....	519,304	May 1	658	160	67	665
Fridrich, George W., St. Louis, Mo. Air-moistening device for hot-air furnaces.....	528,202	Oct. 30	2576	623	69	534
Friede, Samuel M., assignor to Star Coupler Company, St. Louis, Mo. Combination soft and hard metal pipe coupling.....	521,437	June 12	1217	288	67	1433
Friede, Samuel M., assignor of one-third to J. W. Donnell, St. Louis, Mo. Compound-action monkey-wrench.....	525,318	Aug. 28	2328	563	68	1131
Friede, Samuel M., assignor of one-third to J. W. Donnell, St. Louis, Mo. Combined pipe, ratchet, and monkey wrench.....	525,683	Sept. 4	612	146	68	1263
Friede, Samuel M., assignor of one-third to J. W. Donnell, St. Louis, Mo. Combined monkey and pipe ratchet-wrench.....	525,684	Sept. 4	615	146	68	1264
Friede, Samuel M., assignor of one-third to J. W. Donnell, St. Louis, Mo. Combined monkey and pipe wrench.....	530,518	Dec. 11	798	198	69	1377
Friedeborn, Hermann, Münden, Germany. Twin-screw steam-engine.....	514,650	Feb. 13	1124	280 281	66	1083
Friedel, Robert, Chicago, Ill. Metal roofing-plate.....	525,098	Aug. 28	1966	481	68	1064
Friedel, Robert, Chicago, Ill. Curling-iron.....	527,172	Oct. 9	807	196	69	165
Friedenstein, Joseph, Brooklyn, N. Y. Joint for metal wheel-rims.....	517,610	Apr. 3	313	74	67	62
Friederici, Otto, London, England. Boiler-furnace.....	531,525	Dec. 25	2558	612	69	1730
Friedheim, Firm of Max. (See Bauer, Friederich R., assignor.)						
Friedlander, Ellen. (See Hunter, Wallace B., assignor.)						
Friedlander, Henry, Perry, Okla. Ter. Beer-tapping device.....	530,761	Dec. 11	1209	294	69	1450
Friedlander, John, St. Louis, Mo. Machine for polishing shoes.....	524,139	Aug. 7	297	69, 70	68	716
Friedman, Gabriel, <i>et al.</i> (See Engel, Isidor, assignor.)						
Friedman, Joseph L., and J. W. Keiler, Paducah, Ky. Bottle.....	517,800	Apr. 3	641	160	67	125
Friend, J. H. (See Stebbins, Henry W., assignor.)						
Friend, Joseph P. (See Parker and Friend.)						
Friese, Augustus W. (See Hobbs, Horace, assignor.)						
Friese, Eugen F., <i>et al.</i> (See Krantz, Felix C., assignor.)						
Friese-Greene, William, assignor of one-half to C. Brawn, London, England. Apparatus for measuring electricity.....	528,870	Nov. 6	641	153	69	763
Frink, Herbert J., Holyoke, Mass. Calendaring-machine.....	516,646	Mar. 20	1518	361	66	1767
Frisbee, Daniel D., Detroit, Mich. Fence.....	519,995	May 15	1845	451	67	909
Frisbie, Henry R., assignor to F. Kinsley, Bridgeport, Conn. Steam chime-whistle.....	520,418	May 29	2576	623	67	1076
Frisbie, Henry R., Newark, assignor to Eastwood Wire Manufacturing Company, Belleville, N. J. Globe-valve.....	530,478	Dec. 4	690	172	69	1341
Frisbie, Oteria E., <i>et al.</i> (See Welling, John E., assignor.)						
Frisbie, Samuel, Unionville, Conn. Vise.....	528,426	Oct. 30	2967	718	69	604
Frisbie, Samuel, Unionville, Conn. Door-check.....	530,101	Dec. 4	41	12	69	1222
Frisbie, William M., New Haven, Conn. Elevator.....	516,987	Mar. 20	2081	493	66	1873
Frischen, Johann H., assignor to Siemens & Halske, Berlin, Germany. Semaphore-operating device.....	513,496	Jan. 30	2944	725	66	690
Frischen, Johann H., assignor to Siemens & Halske, Berlin, Germany. Switch and signal operating device.....	513,497	Jan. 30	2947	725	66	691
Frischen, Johann H., assignor to Siemens & Halske, Berlin, Germany. Semaphore-operating device.....	513,562	Jan. 30	3069	755	66	713
Frischen, Johann H., assignor to Siemens & Halske, Berlin, Germany. Train-operated signaling system.....	529,165	Nov. 13	1149	277	69	876
Frischen, Johann H., and R. Pfeil, assignors to Siemens & Halske, Berlin, Germany. Train-operated device.....	513,498	Jan. 30	2948	726	66	691
Frisen, Malcolm, Paterson, N. J. Safety-pin.....	513,563	Jan. 30	3071	755	66	713
Frith, Enstace, London, England. Book back or cover.....	529,614	Nov. 20	1961	466 467	69	1043

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Fritsche, Friederike, Berlin, Germany. Galvanic chain.....	526,182	Sept. 18	1495	350	68	1447
Fritsche, Waldemar, Berlin, Germany. Armature for electric machines.....	515,467	Feb. 27	2466	611	66	1360
Fritz, George, Rib Lake, Wis. Device for side-dressing saw-teeth.....	530,833	Dec. 11	1321	318	69	1471
Frizell, Edward B., Larned, Kans. Pump.....	531,175	Dec. 18	1928	459	69	1596
Fromberg, Richard, San Francisco, Cal. Mop-head.....	512,543	Jan. 9	1355	328	68	268
Froelich, Christopher, Brooklyn, N. Y. Railway-switch.....	519,062	May 1	246	58	67	583
Froidevaux, Arnold, Brooklyn, assignor to Froidevaux & Co., New York, N. Y. Detergent.....	522,708	July 10	906		68	190
Froidevaux & Co. (See Froidevaux, Arnold, assignor.)						
Froman, Felix K., and H. C. Murray, Vale, Oreg. Sage-brush cutter.....	515,546	Feb. 27	2593	641	66	1384
Fromholt, Félix J. G., Paris, France. Mechanical sawing and molding stone, marble, &c.....	518,029	Apr. 10	1020	257	67	205
Fromholt, Félix J. G., Paris, France. Machine for cutting tooth-recesses in saw-blades.....	530,407	Dec. 4	578	143	69	1321
Fromholt, Félix J. G., Paris, France. Rotary borer with diamond bit.....	530,408	Dec. 4	579	144	69	1321
Frontier Iron Works. (See Symington, Duncan, assignor.)						
Frost, Artemesia F., Highland, Kans. Rack or holder for fruit-jars.....	517,380	Mar. 27	2758	649	66	2021
Frost, Charles E., New Lisbon, Ohio. Brick-kiln.....	531,371	Dec. 25	2290	546	69	1678
Frost, Ellis F., Washington, D. C. Switchboard.....	516,862	Mar. 20	1872	443	66	1834
Frost, Floyd T., Washington, D. C., assignor of one-fourth to C. A. Voris, Chicago, Ill. Carpet-beater.....	529,682	Nov. 20	2067	495	69	1062
Frost, John C., Winston, N. C. Spraying device for tobacco-casing machines.....	519,425	May 8	887	214	67	722
Frost, John O., Greensburg, assignor of one-half to M. Johnson, Uniontown, Pa. Coin-controlled electrical apparatus.....	520,044	May 22	1926	472	67	940
Frost, Thomas W., Wayland, Mass. Paint-brush binder.....	519,936	May 15	1846	451	67	909
Frost, Walter E., assignor to D. A. Field, Lewiston, and G. P. Smith, Auburn, Me. Electric arc lamp.....	523,144	July 17	1680	420	68	348
Fry, Frank L., and W. J. Fisher, Tacony, Pa. Artificial-stone pavement.....	530,988	Dec. 18	1588	377	69	1534
Fry, George S., and S. L. Walker, Loogootee, Ind. Spoke-sawing machine.....	526,699	Oct. 2	44	12, 13	69	11
Fry, Henry A., San Francisco, Cal. Gas-burner.....	515,669	Feb. 27	2784	693	66	1423
Fry, John H., Grand Rapids, Mich. Drafting-table.....	516,089	Mar. 6	574	134	66	1559
Fry, John H., assignor of one-half to J. G. Alexander, Grand Rapids, Mich. Folding drafting-table.....	527,017	Oct. 2	567	137	69	107
Fry, Joseph F., Wever, Iowa. Vehicle running-gear.....	516,567	Mar. 13	1381	328	66	1726
Fry, Stephen D., and J. R. Hamilton, Attica, Ind. Churn.....	525,980	Sept. 11	1149	261	68	1373
Fry, Urias J., Milwaukee, Wis., and G. M. Basford, Oak Park, Ill. Electrical block-signal apparatus.....	530,762	Dec. 11	1210	295	69	1450
Fry, Urias J., Milwaukee, Wis., and G. M. Basford, Oak Park, Ill. Block-signal apparatus.....	530,763	Dec. 11	1215	295	69	1451
Frye, James, Philadelphia, Pa. Valve.....	523,855	July 31	2935	731	68	609
Fryer, Aaron, assignor of one-half to D. Wiggins, Bath-on-the-Hudson, N. Y. Means for multiplex telegraphing between cars of railways.....	528,902	Nov. 6	688	165	69	772
Fryer, John O., Chelsea, Mass. Loom for weaving narrow fabrics.....	523,114	July 17	1622	406	68	339
Fryer, John W. (See Balthasar, Curt J., assignor.)						
Fryer, Robert M., assignor to J. P. V. Ritter, A. S. Johnson, C. H. Burgess, W. C. Avery, B. E. Emmert, and G. H. La Fetra, Washington, D. C. Valve-gear for engines.....	527,679	Oct. 16	1647	397	69	334
Fryer, Robert M., assignor to J. P. V. Ritter, A. S. Johnson, C. H. Burgess, W. C. Avery, B. E. Emmert, and G. H. La Fetra, Washington, D. C. Steam-valve.....	528,537	Nov. 6	20	7	69	650
Fryer, William, and F. A. Coles, Birmingham, England. Mount for jugs or the like.....	526,104	Sept. 18	1361	316	68	1424
Frysinger, James M., Ohio City, Ohio. Baggage-truck.....	526,698	Oct. 2	43	12	69	11
Fuchs, Benjamin F., Marble Falls, Tex. Piano-tuning hammer.....	528,154	Oct. 30	2493	604	69	520
Fuchs, Carl. (See Schwéers and Fuchs.)						
Fuchs, Gustav, Chicago, Ill. Revolving show and advertising stand.....	524,107	Aug. 7	233	54, 55	68	704
Fuchs, Henry and J. F., Toledo, Ohio. Trunk.....	528,719	Nov. 6	342	83	69	708
Fuchs, John F. (See Fuchs, Henry and J. F.)						
Fuchs, Nathan, assignor of two-thirds to T. Craney and T. C. Stokes, Louisville, Ky. Bung.....	518,811	Apr. 24	2389	590	67	480
Fuchs, Oscar J., assignor of one-half to S. E. Mosher, Chillicothe, Ohio. Cyclometer.....	513,040	Jan. 16	2203	528	66	443
Fuchs, Simon, assignor to D. I. Neudorf, St. Louis Mo. Sash for windows.....	519,450	May 8	922	222	67	729
Fuchslocher, Carl, et al. (See Zanger, Theodor, assignor.)						
Fuerth, William G., Newark, N. J., assignor to A. B. Dick Company, of Illinois. Stencil-printing machine.....	521,464	June 19	1282	299	67	1462
Fügel, Hugo. (See Ench, Fügel, Cooke, and Schultze.)						
Fulford, George A., assignor of one-half to S. C. Howard, Providence, R. I. Switch-operating device.....	525,892	Sept. 11	1009	227	68	1347
Fulghum, Elisha J., Traverse City, Mich. Saw-handle.....	522,558	July 3	653	165	68	128
Fulgham, Emma R. (See Henley and Fulgham, assignors.)						
Fulgham, Jesse P. (See Henley and Fulgham.)						
Fullenlove, McClelland C., assignor of one-half to J. C. Cosgrove, Chicago, Ill. Safety appliance for elevators.....	524,979	Aug. 21	1719	421	68	1004
Fuller, Albert W., Saugus, Mass. Electric-wire cleat or holder.....	513,564	Jan. 30	3072	755	66	713
Fuller, Charles D. (See St. John, Garland B., assignor.)						
Fuller, Clinton H. (See Garing, Adolph, assignor.)						
Fuller, Eben E., Monticello, Minn. Baling-press.....	512,182	Jan. 2	751	183	66	143
Fuller, Eugene J., Sheridan, N. Y. Vine-fastener.....	525,010	Aug. 28	1800	439	68	1036
Fuller, Franklin P., assignor of three-fourths to H. C. Fowler, L. W. Armentrout, and F. G. Porter, Mt. Vernon, Ohio. Grate-bar.....	516,888	Mar. 20	1912	452	66	1842
Fuller, George, et al. (See Demmick, George W., assignor.)						
Fuller, George M. (See Pelkey and St. Louis, assignors.)						
Fuller, Henry C., assignor of two-thirds to T. M. Wyatt and F. F. Dumont, Bentonville, Ark. Toy.....	514,620	Feb. 13	1079	269	66	1074
Fuller, Herbert M. (See Brightly, Fuller, and Singer.)						
Fuller, Horace S., et al. (See Hakewessell, Reinhold, assignor.)						
Fuller, Horace S., et al. (See Henn, Edwin C., assignor.)						
Fuller & Johnson Manufacturing Company. (See Starks, Nils O., assignor.)						
Fuller & Johnson Manufacturing Company. (See Starks and Johnson, assignors.)						
Fuller, Judson M., Oak Park, Ill. Puzzle.....	518,061	Apr. 10	1077	272	67	213
Fuller, Levi K. (See Bailey, Frank J., assignor.)						
Fuller, Louis E., and A. J. Taylor, Norfolk, Va. Electric belt.....	531,109	Dec. 18	1803	429	69	1573
Fuller, Marie L., New York, N. Y. Mechanism for the production of stage effects.....	513,102	Jan. 23	2226	553	66	528
Fuller, Marie L., New York, N. Y. Garment for dancers.....	518,347	Apr. 17	1583	392	67	322
Fuller, Maybell, assignor of one-half to R. Pollard, Syracuse, N. Y. Fruit or vegetable steamer.....	517,217	Mar. 27	2494	586	66	1969
Fuller, Myron H., Phelps, assignor to Clifton Springs Manufacturing Company, Manchester, N. Y. Fork.....	530,892	Dec. 11	1417	337	69	1488

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Fuller, Rodolphus, Detroit, Mich. Brush-holder for dynamo-electric machines	522,051	June 26	2319	557	67	1670
Fuller, Theodore W., Washington, D. C. Bench or other plane	528,987	Oct. 23	2378	574	69	484
Fuller & Warren Company. (See Wolfe, Gurdon G., assignor.)						
Fuller, Willard M., Denver, Colo. Pulverizing-machine	517,381	Mar. 27	2759	{ 649 650 }	66	2021
Fuller, Willie C., Salina, Kans. Electric belt	513,387	Jan. 23	2746	669	66	618
Fullerton, James, Columbus, Ohio. Stairway	525,198	Aug. 29	2136	521	66	1094
Füllner, Alwin G. E., Warmbrunn, Germany. Pulp-catcher for paper-manufactories	518,238	Apr. 17	1384	347	67	286
Fallner, Franz, Chicago, Ill. Galvanic battery	522,559	July 3	654	165	68	128
Falmer, Jacob M., McZena, Ohio. Fence	514,922	Feb. 20	1574	395	66	1183
Fulton, David, assignor of one-half to A. E. Flowers, Enterprise, Oreg. Sliding gate	528,934	Nov. 13	764	1+0	69	806
Fulton, David M., Baltimore, Md. Nut-lock	524,895	Aug. 21	1577	366	68	979
Fulton, James A., South Bend, Ind. Sand-band for wagons	528,538	Nov. 6	23	7	69	650
Fulton, Joseph H., West Lebanon, assignor of two-fifths to W. R. Hamilton, Indiana, Pa. Churn-dasher	513,041	Jan. 16	2206	528	66	413
Fulton, Louis B. (See Fudan and Fulton.)						
Fulton, Mahlon, Philadelphia, Pa. Smoke-consuming furnace	519,530	May 8	1084	259	67	756
Funk, Charles E., Chicago, Ill. Pump	513,315	Jan. 23	2633	639	66	597
Funk, Charles E., Chicago, Ill. Pump	513,316	Jan. 23	2636	639	66	597
Funk, H. W. (See Staley, Joseph L., assignor.)						
Funk, Levi L., Chicago, Ill. Electric mouth-battery	527,037	Oct. 2	598	144	69	113
Funk, William R., assignor of one-half to A. G. Henry, McFarland, Kans. Extension tie-plate	530,409	Dec. 4	580	144	69	1321
Funke, Max, Dresden, Germany. Machine for bordering placards, &c.	526,307	Sept. 18	1713	404	68	1491
Funke, Robert C., assignor of one-half to S. Corkran, Philadelphia, Pa. Hammock stretcher or spreader	518,568	Apr. 17	1960	484	67	389
Funkhauser, James L., Moravia, Iowa. Hay-stacker	517,099	Mar. 27	2228	542	66	1931
Funkhouser, I. N., et al. (See Humbert, James H., assignor.)						
Furay, John B. (See McARDLE and Furay.)						
Furbush, Charles O., Jr., Minneapolis, Minn. Lubricator for bicycles	531,176	Dec. 18	1930	459	69	1597
Furman, Charles L., and G. E. Holland, Peoria, Ill. Adjustable angle attachment for dental handpieces	513,178	Jan. 23	2412	582	66	553
Furnas, Robert W., Indianapolis, Ind. Street-sweeper	514,676	Feb. 13	1174	292	66	1092
Furnas, Robert W., Indianapolis, Ind. Street-sweeper	514,677	Feb. 13	1176	293	66	1092
Furnas, Robert W., Indianapolis, Ind. Street-sweeper	514,678	Feb. 13	1177	294	66	1093
Furness, Frank, assignor of one-third to D. H. Watts, Philadelphia, Pa. Tile floor, wall, &c.	527,961	Oct. 23	2153	{ 517 518 }	69	443
Furr, Jacob. (See Leonard, Caswell L., assignor.)						
Fustian Cutting Machine Company. (See Mann, Smith, and Read, assignors.)						
Fyfe, John C. (See Timbrell and Fyfe.)						
Fyfe, John C., assignor of one-half to J. Hayes, Chicago, Ill. Electric-arc lamp	519,283	May 1	615	150	67	656
Fyfe, John C., assignor of one-half to J. Hayes, Chicago, Ill. Commutator	522,052	June 26	2320	557	67	1670
Fyfe, John C., assignor of one-half to J. Hayes, Chicago, Ill. Rheostat ..	528,539	Nov. 6	24	7, 8	69	650
G. D. Colton & Company. (See Anderson, Abraham, assignor.)						
Gabb, William J., et al. (See Hakowessell, Reinhold, assignor.)						
Gabb, William J., et al. (See Henn, Edwin C., assignor.)						
Gabel, Thomas R., Albuquerque, N. Mex., assignor to Q. & C. Company, Chicago, Ill. Combined tie-plate and rail-brace	530,175	Dec. 4	162	42	69	1244
Gadey, Charles H., assignor of one-half to Brown Brothers Manufacturing Company, Chicago, Ill. Grate-bar	513,565	Jan. 30	3073	756	66	714
Gaffney, James F. (See Beron, Frank G., assignor.)						
Gaffron, Phillip E., Denver, Colo. Gold-amalgamating machine	520,847	June 5	170	37	67	1228
Gage, Bessie F., Oakland, Cal. Coffee-making apparatus	514,592	Feb. 13	1034	260	66	1065
Gage, Burt O. (See Hall and Gage.)						
Gage, Robert, et al. (See Weston, Edward D., assignor.)						
Gage, Wellesley W., New York, N. Y. Pipe-coupling	521,465	June 19	1283	299	67	1462
Gage, William E., Augusta, Me. Joint for articles of wood	525,387	Sept. 4	116	30	68	1171
Gagnon, Gilbert, Nanaïmo, Canada. Cable-grip for logging and other purposes	526,224	Sept. 18	1572	369	68	1462
Gagnon, Thomas, assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Drop-jack for railway or platform scales	526,621	Sept. 25	2252	538	68	1603
Gail, Daniel H., Chicago, Ill., assignor to L. H. Gail. Wire mattress	516,195	Mar. 13	755	176	66	1609
Gail, Louisa H. (See Gail, Daniel H., assignor.)						
Gaines, Henry P., McKenzie, Tenn. Wagon-bed	516,595	Mar. 13	1423	{ 337 338 }	66	1733
Gair, Marie, St. Louis, Mo. Curtain-banger	525,143	Aug. 28	2045	499	68	1079
Gair, Robert, Brooklyn, N. Y. Paper box	519,451	May 8	924	283	67	729
Gaiser, August L., Württemberg, Germany. Fire-extinguishing apparatus	530,834	Dec. 11	1323	318	69	1472
Gaither, David A., Williston, Tenn. Pea-shelling machine	513,911	Jan. 30	3621	892	66	818
Galbraith, George. (See Wallia and Galbraith.)						
Galbraith, George J. (See Thomson and Galbraith.)						
Galbreath, Charles E., Osage Mission, Kans. Switch	516,527	Mar. 13	1318	314	66	1714
Galbreath, Thomas M., Memphis, Tenn. Wagon-railway	516,327	Mar. 13	965	{ 227 228 }	66	1649
Gale, Andrew, and E. Tremblay, assignors to said Gale and Belcher & Taylor Agricultural Tool Company, Chicopee, Mass. Swivel-plow	522,341	July 3	285	74	68	57
Gale, Buriou L., assignor to Warren Extension Table Company, Warren, Pa. Knockdown box	521,310	June 12	994	234	67	1390
Gale, Edward, Peoria, Ill. Trolley-wire finder	513,566	Jan. 30	3074	756	66	714
Gale, Horace B., San Francisco, Cal. Speed and power regulator for motors	526,183	Sept. 18	1496	351	68	1447
Gale, John T., Columbus, Ohio. Temporary binder	518,062	Apr. 10	1078	273	67	213
Gale, Moses F., Brooklyn, N. Y. Dust collector and separator	515,330	Feb. 27	2245	556	66	1319
Gallagher, Henry, Savannah, Ga. Car-coupling	516,371	Mar. 13	1050	249	66	1663
Gallagher, Daniel. (See Perkins and Scollay, assignors.)	528,124	Oct. 23	2442	591	69	495
Gallagher, Edward J., Jr., Philadelphia, Pa. Safety stable device	530,617	Dec. 11	966	237	69	1407
Gallagher, George F., et al. (See Moore, Thomas B., assignor.)						
Gallagher, George F., and T. B. Moore, assignors of one-third to H. Gallagher, Rochester, N. Y. Furnace	526,776	Oct. 2	180	42	69	34
Gallagher, Henry. (See Gallagher and Moore, assignors.)						
Gallagher, Henry, et al. (See Moore, Thomas B., assignor.)						
Gallagher, John F., Forest City, Pa. Car-axle box	524,200	Aug. 7	400	95	68	734
Gallagher, Thomas M., St. Louis, Mo. Car-coupling	512,692	Jan. 16	1601	384	66	329
Gallagher, Thomas M., assignor of one-half to C. D. Stevens, St. Louis, Mo. Smoke-abating furnace	512,183	Jan. 2	753	183	66	144

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Galland, Annie M., New York, N. Y. Box	528,935	Nov. 13	766	180	69	807
Gallant, William L. (See McLaughen and Gallant.)						
Galleazzi, Joseph, San Francisco, Cal. Accordion	517,648	Apr. 3	337	92, 93	67	75
Gallegos, José, Ocos, Guatemala. Back-brace	530,038	Nov. 27	2697	648	69	1190
Galligan, Henry F., Lebanon, Mo. Coin-controlled electrical apparatus	526,388	Sept. 25	1868	444	68	1533
Galloway, Robert, Macedon, N. Y. Grain-drill	530,585	Dec. 11	917	225	69	1399
Galloway, Robert, Macedon, N. Y., assignor to Bickford & Hoffman Company, of New York. Gearing for grain-drills	529,375	Nov. 20	1531	366	69	966
Galloway, Samuel J., Santiam, Oreg. Combined car and air-brake coupling	514,184	Feb. 6	344	82, 83	66	918
Galloway, William G., Chicago, Ill. Drying-kiln	526,349	Sept. 18	1778	422	68	1504
Galloway, William G., Chicago, Ill. Drying-kiln	526,350	Sept. 18	1780	422	68	1504
Gallup, James W. (See Conner, Daniel E., assignor.)						
Galt, John C., Philadelphia, Pa. Guard for globes of electric lights or lamps	524,168	Aug. 7	347	81	68	725
Galt, Thomas A., Sterling, Ill. Lawn-rake	529,901	Nov. 27	2434	585	69	1140
Gamble, James N. (See Strong, George S., assignor.)						
Gamble, Will M., New Whatcom, Wash. Shoulder-brace	531,372	Dec. 25	2291	{ 546 547 }	69	1679
Gamewell Fire-Alarm Telegraph Company. (See Burns, Michael J., assignor.)						
Gamewell Fire-Alarm Telegraph Company. (See Decrow, William E., assignor.)						
Gamewell Fire-Alarm Telegraph Company. (See Kiruan, William H., assignor.)						
Gamewell Fire-Alarm Telegraph Company. (See Suren, Nathan H., assignor.)						
Gammous, Ferdinand C., assignor to Eagle Cotton Gin Company, Bridgewater, Mass. Pneumatic seed-cotton conveyor	516,733	Mar. 20	1673	{ 396 397 }	66	1795
Gammous, Welcome P., Jr., New York, N. Y. Machine for sewing sweat-bands into hats	519,038	May 1	162	38, 39	67	567
Ganon, Henry F., Indianapolis, Ind. Thread-cutting ring	530,332	Dec. 4	453	113	69	1296
Ganduxer, Jacinto F., Gracia, Spain. Automatic line discharger	523,889	July 31	2992	744	68	620
Gandy, Frederick, Fern Bank, Ohio. Core for casting hollow cylinders, pipes, &c	526,029	Sept. 18	1326	283	68	1400
Gano, Avery, Greene county, Ill. Farm-gate	524,489	Aug. 21	1513	370	68	967
Gans, Moses, Baltimore, Md. Machine for slotting umbrella-sticks	524,418	Aug. 14	797	195	68	824
Gauswindt, Hermann, Scheeneberg, Germany. Propeller for aerial vehicles	526,700	Oct. 2	53	13	69	13
Garcelon, Fred. M., Lewiston, Me. Spindle	526,670	Sept. 25	2349	560	68	1621
Garcelon, Fred. M., Lewiston, Me. Spindle and bolster	528,936	Nov. 13	767	181	69	807
Gardam, Frederick W., Brooklyn, N. Y. Toy microscope	513,912	Jan. 30	3624	893	66	818
Garden, Anthony D. (See Walter, Thomas U., assignor.)						
Gardner, Clement E., Hempstead, N. Y. Manufacture of candy whistles	530,039	Nov. 27	2698	648	69	1191
Gardner, John. (See Moore and Gardiner.)						
Gardner, Cuthbert, Redcar, England. Combined life-boat and ship's safe	516,968	Mar. 20	2048	{ 484 485 }	66	1868
Gardner, Edward. (See Gardner, Thomas H. and E.)						
Gardner, Frederick A., New Bedford, Mass. Hot-water furnace	529,121	Nov. 13	1070	258	69	861
Gardner, Frederick N., Beloit, Wis., assignor to C. H. Besly, Chicago, Ill. Shaft-hanger	523,774	Nov. 6	445	{ 109 110 }	69	727
Gardner, George C., Chicago, Ill. Sash-fastener	521,341	June 12	1063	249	67	1404
Gardner, George H., Boston, Mass. Primary battery	530,764	Dec. 11	1219	{ 295 296 }	69	1452
Gardner, Henry K., Pawtucket, R. I. Cigar-bunching machine	528,903	Nov. 6	691	{ 166 167 }	69	772
Gardner, Henry L. (See Donovan and Gardner.)						
Gardner, Henry L., Springfield, Mass. Trolley-cycle	526,832	Oct. 2	265	64	69	50
Gardner, Horace C., assignor to himself and G. F. Swift, Chicago, Ill. Extensible vestibule for use in leading refrigerator-cars	514,923	Feb. 20	1575	396	66	1183
Gardner, Levi S., G. Cook, and A. O. Tannenberg, assignors to W. H. Befinger, New Orleans, La. Cotton-band cutter	529,258	Nov. 13	1323	318	69	905
Gardner, Marshall, assignor, by mesne assignments, to Gardner Sewing Machine Company, Aurora, Ill. Sewing-machine. (Reissue)	11,412	Apr. 10	1341	{ 334 335 }	67	262
Gardner, Onslow K., Pittsburg, Pa. Sash lock, lift, and balance	522,889	July 10	1208	301	68	244
Gardner Sewing Machine Company. (See Gardner, Marshall, assignor.) (Reissue.)						
Gardner Sewing Machine Company. (See Levedahl, Axel, assignor.)						
Gardner, Thomas H. and E., Manchester, England. Dental chair	519,109	May 1	288	68, 69	67	590
Gardner, Thomas H. and E., Manchester, England. Retaining or lowering apparatus	519,110	May 1	290	69, 70	67	591
Gardner, William F., Washington, D. C. Time-ball	530,879	June 5	223	50	67	1238
Gardy, Henry D., assignor of one-half to T. C. Burk, Chester, Pa. Roundabout	527,962	Oct. 23	2153	518	69	443
Gare, Thomas, Stockport, England. Burnishing-machine	521,977	June 26	2191	527	67	1647
Garay, Wilbur E., Chicago, Ill. Electric indicator	519,945	May 15	1758	431	67	893
Garfield, Charles M., Minneapolis, Minn. Cigar-moistening device	520,141	May 22	2118	516	67	973
Garfield, Frank R., Concord, Mass. Cash-receptacle	527,239	Oct. 9	919	221	69	186
Garfield Injector Company. (See Young, Edwin J., assignor.)						
Garford, Arthur L., Elyria, Ohio. Bicycle-saddle	523,115	July 17	1624	407	68	339
Garich, Robert, Chicago, Ill. Mash-machine	512,093	Jan. 16	1602	{ 384 385 }	66	330
Garies, Fannie M., assignor of one-half to M. E. Bustard, New York, N. Y. Instrument for chiropodists' use	527,240	Oct. 9	920	222	69	186
Garing, Adolph, Allentown, assignor of one-half to C. H. Fuller, Catasauqua, Pa. Sand-box for cars	528,904	Nov. 6	711	168	69	776
Garis, John E., and H. J. Welch, Port Carbon, Pa. Valve for compressor and blowing engines	512,369	Jan. 9	1055	258	66	210
Garl, Manious, Akron, Ohio. Annunciator	513,775	Jan. 30	3412	842	66	775
Garland, Frank M., New Haven, Conn. Package of ammunition	513,567	Jan. 30	3076	756	66	714
Garland, Frank M., New Haven, Conn. Machine-gun	513,995	Feb. 6	37	8	66	861
Garland, George M., Des Plaines, Ill. Transom-lifter	513,913	Jan. 30	3625	893	66	818
Garland, Howard P., Petaluma, Cal. Wheel	526,622	Sept. 25	2253	539	68	1604
Garland, Julia A. (See Garland, Michael, assignor.)						
Garland, Michael. (See Thomas, Edwin E., assignor.)						
Garland, Michael, Bay City, Mich. Coupler for cable conveyers, &c	516,568	Mar. 13	1383	329	66	1726
Garland, Michael, Bay City, Mich. Coupling for cable conveyers, &c	517,338	Mar. 27	2690	631	66	2007
Garland, Michael, Bay City, Mich. Twin circular sawing machine	518,031	Apr. 10	1022	258	67	205
Garland, Michael, Bay City, Mich. Sawing-machine	528,088	Oct. 23	2379	574	69	484
Garland, Michael, assignor to J. A. Garland, Seabright, N. J. Water-closet	524,246	Aug. 7	466	109	68	747
Garland, Michael, assignor to M. Garland Company, Bay City, Mich. Driving live-rolls	530,333	Dec. 4	454	114	69	1297
Garland, Michael, and C. M. Prescott, Bay City, Mich.; said Prescott assignor to said Garland. Sawing-machine	515,734	Feb. 27	2889	721	66	1443
Garland, Richard T., Altoona, Pa. Car-door	531,110	Dec. 18	1806	429	69	1574
Garlock, Stephen G., and B. W. Marshall, assignors to W. J. Marshall, St. Louis, Mo. Adjustable desk-bracket for electric lamps	517,569	Apr. 3	252	58	67	49

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Garner, Thomas D., Jr., Iberia, Mo. Flue for smoke-pipes	515,427	Feb. 27	2412	597	66	1349
Garnier, Jules, Paris, France. Extracting nickel from its oxides	511,886	Jan. 2	274	63	66	53
Garnsey, Frederick A., Southborough, Mass. Loom-temple	524,587	Aug. 14	1062	262	68	873
Garraux, Frederick, assignor to Winship Machine Company, Atlanta, Ga. Apparatus for elevating seed-cotton	521,159	June 12	724	171	67	1341
Garrett, A. M., <i>et al.</i> (See Dodder, George W., assignor.)						
Garrett, Allison. (See Tanquary, Cassius M., assignor.)						
Garrett, Elmer E., Philadelphia, Pa. Duplicating cash or receipt book	521,879	June 26	1987	480	67	1610
Garrison, William F., Brooklyn, N. Y. Water-regulating valve for condensers	519,083	May 1	248	58	67	583
Garrison, William F., Brooklyn, N. Y. Puppet-valve for pistons of air or gas pumps	525,541	Sept. 4	381	93	68	1221
Garrison, William M. S., Elizabeth, N. J. Portable elevator	522,252	July 3	132	31, 32	65	26
Garrott, Joseph C., Brooklyn, N. Y. Floor-washing machine	515,877	Mar. 6	227	53	66	1496
Garside, Irad L., Paterson, N. J. Bell for doors, tables, &c.	512,435	Jan. 9	1150	286	66	235
Garside, Irad L., Paterson, N. J. Door-bell, &c.	513,499	Jan. 30	2950	726	66	691
Garside, Irad L., Paterson, N. J., assignor to Multi-Stroke Bell Company, of New Jersey. Signal-bell	531,373	Dec. 25	2293	547	69	1679
Garst, Dudley, assignor of one-half to J. E. Turner, Greenville, Ohio. Wire fence	525,701	Sept. 11	660	151	68	1285
Garstang, Richard, assignor of two-thirds to C. F. Sparks and Alton Novelty Manufacturing Company, Alton, Ill. Steam-engine	523,631	July 24	2520	{ 631 632 }	{ 68 67 }	517
Gartman, Charles E., <i>et al.</i> (See Dixon, William H., assignor.)						
Gartin, George, assignor of one-half to H. Murphy, Millville, N. J. Oar-lock	525,099	Aug. 28	1967	481	68	1065
Gartrell, John H., Penzance, England. Apparatus for indicating and regulating fluid-pressure	517,451	Apr. 3	66	14	67	15
Garven, William H., Portland, Oreg. District-telegraph call	525,649	Sept. 4	541	131	68	1251
Garver, Abraham L., Roaring Spring, Pa. Book-backing machine	519,997	May 15	1847	{ 451 452 }	{ 67 67 }	909
Garver, Madison M. (See Willyoung and Garver.)						
Garver, Madison M., and E. G. Willyoung, assignors to Queen & Company, Incorporated, Philadelphia, Pa. Electrical measuring-instrument	514,593	Feb. 13	1036	{ 260 261 }	{ 66 66 }	1065
Garver, Martin V., Bryan, Ohio. Wheelbarrow	520,919	June 5	304	74	67	1253
Garver, Martin V., Bryan, Ohio. Wheelbarrow-tray	520,920	June 5	305	75	67	1253
Garvey, Charles J., assignor to Colhoun Manufacturing Company, Chicago, Ill. Curry-comb	531,412	Dec. 25	2351	561	69	1690
Garvin, James E., Merritt's Corners, N. Y. Nut and bolt lock	526,308	Sept. 18	1715	404	68	1491
Garvin, William L., <i>et al.</i> (See Prosser, Daniel F., assignor.)						
Garwood, Spencer, Milford Centre, Ohio. Wheel	525,011	Aug. 28	1801	{ 439 440 }	{ 68 68 }	1036
Gas Meter Company. (See Gow, John, assignor.)						
Gas-Motoren-Fabrik-Deutz. (See Langen, Eugen, assignor.)						
Gas-Motoren-Fabrik-Deutz. (See Schumm, Hermann, assignor.)						
Gas Traction Company. (See Prawacke, August, assignor.)						
Gaskill, Silas S. C., assignor to F. M. Whiteman, Canton, Ohio. Tumbler-washer	529,527	Nov. 20	1826	434	69	1017
Gaskill, Elijah T., assignor of one-half to C. D. Patterson, New Berne, N. C. Mattress-filling machine	530,040	Nov. 27	2693	648	69	1191
Gaskill, Isaac N., St. Louis, Mo. Automatic pressure-regulator and stop-valve	530,765	Dec. 11	1220	296	69	1452
Gaskill, William C., Kansas City, Mo. Plate or platter	529,526	Nov. 20	1825	434	69	1017
Gaskill, William H., Philadelphia, Pa. Ferrule	521,765	June 19	1811	429	67	1558
Gaskill, William H., assignor to F. W. Evans, Jr., Philadelphia, Pa. Ferrule	521,342	June 12	1063	249	67	1404
Gaskins, Thomas, Arcadia, Fla. Cooking stove or range	520,229	May 22	2268	552	67	1001
Gaskins, Thomas, Arcadia, Fla. Seal-lock	528,471	Oct. 30	3047	739	69	619
Gassaway, Benjamin F., Dublin, Tex. Overcoat	519,670	May 8	1312	{ 313 314 }	{ 67 67 }	797
Gassett, Oscar, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Steam-trap	526,862	Oct. 2	324	79	69	61
Gassett, Oscar, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Steam-trap	528,605	Nov. 6	261	64	69	693
Gaston, James M., Louisville, Ky. Bolt and nut lock	530,766	Dec. 11	1222	296	69	1452
Gaston, Stephen M., Sherman, Tex. Automatic damper-regulator	514,887	Feb. 13	1517	380	66	1157
Gatchell, George S., <i>et al.</i> (See Finley, James H., assignor.)						
Gates, Albert J., assignor to Gates Iron Works, Chicago, Ill. Gyrating crusher	525,413	Sept. 4	167	43	68	1181
Gates, Caleb C., assignor to himself and J. S. Hopkins, Forsyth, Mont. Railway rail or tie distributor	521,023	June 5	479	114	67	1283
Gates, Calvin M. (See Johnston and Gates.)						
Gates, Charles M., La Salle, Ill., assignor of one-half to J. C. Smalley, Lafayette, Ind. Hay-loader	513,996	Feb. 6	38	8	66	861
Gates Iron Works. (See Brewis, John J., assignor.)						
Gates Iron Works. (See Carman, Charles L., assignor.)						
Gates Iron Works. (See Carman and Gates, assignors.)						
Gates Iron Works. (See Carman, Hanna, and Gates, assignors.)						
Gates Iron Works. (See Gates, Albert J., assignor.)						
Gates Iron Works. (See Gates, Philetus W., assignor.)						
Gates Iron Works. (See Gates, Ryerson D., and P. W., assignors.)						
Gates Iron Works. (See Hoyt, Avery E., assignor.)						
Gates Iron Works. (See Van Wagner, Isaac M., assignor.)						
Gates, James, assignor of one-half to G. Reid, Sombra, and T. Elliott, Goodrich, Canada. Car-coupling	513,677	Jan. 30	3258	800	66	747
Gates, Philetus W. (See Carman and Gates.)						
Gates, Philetus W. (See Carman, Hanna, and Gates.)						
Gates, Philetus W. (See Gates, Ryerson D. and P. W.)						
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Inclined diaphragm of gyrotory stone-breakers	525,405	Sept. 4	154	39	68	1179
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Stone-crusher	525,406	Sept. 4	155	39	68	1179
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Method of and means for securing stone-crusher heads to shafts	525,407	Sept. 4	156	40	68	1179
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Gyrotory crusher	525,408	Sept. 4	159	40, 41	68	1180
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Gyrotory stone-breaker	525,409	Sept. 4	160	41	68	1180
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Bearing for gyrotory shafts for stone-breakers or other machines	525,410	Sept. 4	162	41, 42	68	1180
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Sealing, lubricating, and bearing support for gyrotory screens, &c.	525,411	Sept. 4	164	42	68	1181
Gates, Philetus W., assignor to Gates Iron Works, Chicago, Ill. Apparatus for casting journal-boxes	525,412	Sept. 4	165	42	68	1181
Gates, Ryerson D., Oak Park, Ill. Cigar-holder	515,825	Mar. 6	154	38	66	1482

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Gates, Ryerson D., Oak Park, Ill. Rock or ore breaker.....	525,144	Aug. 28	2046	{ 499 500 }	68	1080
Gates, Ryerson D. and P. W., assignors to Gates Iron Works, Chicago, Ill. Rock or ore crusher.....	530,102	Dec. 4	41	12	69	1223
Gates, William, assignor of one-half to A. W. Flint, New Haven, Conn. Extension attachment for ladders.....	515,562	Feb. 27	2647	658	66	1396
Gates, William H., assignor of one-half to E. F. Dakin, Worcester, Mass. Trammel.....	522,053	June 26	2322	557	67	1670
Gatewood, William F., Alton, Ill. Gate.....	513,914	Jan. 30	3626	893	66	818
Gatewood, William F., Alton, Ill. Gate.....	526,701	Oct. 2	54	14	69	13
Gatewood, William L., Louisiana, Mo. Cant-hook.....	514,455	Feb. 13	792	202	66	1020
Gathright, Josiah B., Louisville, Ky. Street-sweeper.....	512,544	Jan. 9	1356	328	68	268
Gatling, Richard J., Hartford, Conn. Cartridge.....	513,997	Feb. 6	39	9	66	861
Gatling, Richard J., Hartford, Conn. Bicycle.....	519,384	May 8	817	199	67	709
Gandin, Eugene V., New Orleans, La. Awning.....	524,712	Aug. 21	1282	314	68	926
Gaudrie, Francis X., Port Hope, Canada. Can-labeling machine.....	527,843	Oct. 23	1920	462	69	400
Gaugh, Maria A. (See Fitzgerald and Gaugh.)						
Gaul, Marie, Philadelphia, Pa. Refreshment-server.....	523,068	July 17	1530	383	68	320
Gaul, Ray, Brooklyn, N. Y. Apparatus for producing draft in smoke-stacks or chimneys.....	512,508	Jan. 9	1309	316	66	259
Gaul, Ray, Brooklyn, N. Y. Device for increasing draft in smoke-stacks.....	522,009	Jan. 26	2259	541	67	1658
Gault, John H., and C. F. Schrader, assignors to S. B. Rowley, Philadelphia, Pa. Valve-stopper for bottles.....	522,203	July 3	34	9	68	9
Gaunt, Fillmore, assignor of one-half to E. C. Haines, Woodstown, N. J. Potato-planter.....	525,893	Sept. 11	1010	{ 227 228 }	68	1348
Gauntz, George, Greenfield, Ohio. Strainer for pump-spouts.....	514,924	Feb. 20	1576	396	66	1183
Gause, Benjamin, Atlanta, Ga., assignor to J. C. Calhoun, New York, N. Y. Cotton-harvester.....	520,045	May 22	1928	{ 472 473 }	67	940
Gauthier, Agile N., New Orleans, La. Roller-jewel protector for watches.....	525,264	Aug. 28	2231	544	68	1112
Gauthier, Agile N., New Orleans, La. Mainspring-barrel for watches.....	525,265	Aug. 28	2232	545	68	1112
Gauthier, Agile N., New Orleans, La. Watchcase-pendant.....	526,030	Sept. 18	1228	283	68	1400
Gauthier, Albert. (See McKercher, Alphonse C., assignor.)						
Gautran, Alfred J., Stamford, Conn. Bed-lounge.....	531,461	Dec. 25	2455	584	69	1710
Gavey, William S., Brooklyn, N. Y. Electrically-operated railway-switch.....	517,743	Apr. 3	554	135	67	107
Gavioli, Claude, Paris, France. Mechanism for actuating keyboards by means of perforated cards.....	531,413	Dec. 25	2352	{ 561 562 }	69	1691
Gawn, James D. (See Freese and Gawn.)						
Gay, Chauncey W., Springfield, Mass. Machine for bending paper-box blanks.....	519,671	May 8	1313	{ 314 315 }	67	797
Gay, Chauncey W., West Springfield, Mass. Machine for scoring paper-board.....	527,963	Oct. 23	2155	518	69	444
Gay, Chauncey W., Springfield, assignor of one-half to L. W. Brown & Co., Brightwood, Mass. Paper-box machine.....	519,531	May 8	1085	{ 260 261 }	67	757
Gay, George E., and J. H. Parsons, Augusta, Me. Trolley-catcher.....	511,941	Jan. 2	362	84, 85	66	69
Gay, William P., Leominster, Mass. Making tape from leather-board or other material.....	518,030	Apr. 10	1021	257	67	205
Gayley, James, Braddock, Pa. Method of and apparatus for extracting moisture from air for blast-furnaces.....	527,844	Oct. 23	1923	463	69	401
Gaylord, Jared E., et al. (See Cole, William G., assignor.)						
Gaynor, Thomas F., Louisville, Ky., assignor to United Fire Alarm and Police Signal Company, of West Virginia. System for signaling and communication.....	515,761	Mar. 6	44	13	66	1463
Gaynor, Thomas F., Louisville, Ky., assignor to United Fire Alarm and Police Signal Company, of West Virginia. Electric signal-box.....	515,762	Mar. 6	53	13, 14	66	1464
Gazlay, Henry W., Cortland, assignor of one-half to P. B. Spaulding, New Hartford, N. Y. Milk cooler and aerator.....	521,648	June 19	1597	374	67	1518
Gearhart, Alfred V., Wausau, Wis. Counter for type-writers.....	519,180	May 1	431	106	67	621
Geary, Frank M. (See Denison and Geary.)						
Geary, John J., assignor of one-half to J. J. Mossop, Chester, Pa. Electromagnetic call-bell.....	525,145	Aug. 28	2048	500	58	1080
Geary, John J., assignor of one-half to J. J. Mossop, Chester, Pa. Circuit-closing device.....	525,266	Aug. 28	2233	545	68	1113
Gebauer, John, St. Louis, Mo. Horse-collar-stuffing machine.....	529,721	Nov. 27	2134	511	69	1084
Geddes, John H., managing director. (See Bennett, Thomas O., assignor.)						
Geddes, Franz, and C. Schunke, Berlin, Germany. Lamp.....	516,925	Mar. 20	1979	465	66	1853
Geer, Costello B., assignor of one-half to J. E. Beebe, Union City, Pa. Combination-furniture.....	516,005	Mar. 6	439	101	66	1534
Geer, Giles A., Utica, N. Y. Apparatus for ventilating cars.....	526,702	Oct. 2	55	14	69	13
Geer, Maurice F. (See Smith and Geer.)						
Geery, James. (See Buford and Geery.)						
Gehly, Theodore H., et al. (See McLaughlin, James F., assignor.)						
Geiger, Adolph, Rochester, N. Y. Oscillating pump.....	526,127	Sept. 18	1398	325	68	1430
Geiger, Charles E., Louisville, Ky. Driving mechanism for electric elevators.....	521,160	June 12	726	{ 171 172 }	67	1342
Geiger, Harry M., assignor to Champion Cash Register Company, Grand Rapids, Mich. Actuating device for manual recorders.....	519,253	May 1	567	138	67	647
Geiger, John H., et al. (See Knauer, Cyrus A., assignor.)						
Geis, Mary K. (See Lawlor, John, assignor.)						
Geisendorfer, John, Weimar, Cal. Pipe-wrench.....	519,254	May 1	569	138	67	647
Geiser, Daniel S., Waynesborough, Pa. Combined thrashing and separating machine.....	516,926	Mar. 20	1980	{ 465 466 467 }	66	1853
Geiser, Jacob, Basle, Switzerland. Lamp.....	524,526	Aug. 14	968	{ 237 238 }	68	855
Geisler, Wilhelm H., Hempstead, N. Y. Sawing-machine.....	525,456	Sept. 4	237	58	68	1194
Geissinger, Edward J., Philadelphia, Pa., assignor of one-half to George A. Ohl & Company, Newark, N. J. Metal-bending machine.....	520,262	May 22	2324	{ 564 565 }	67	1012
Gelabert, William P., assignor of one-half to T. G. Nelson, Sweet Springs, Mo. Hame-tug fastening.....	521,567	June 19	1461	342	67	1494
Gélaridin, Jules, Paris, France. Saw-frame.....	527,845	Oct. 23	1926	463	69	401
Gelb, Phillip, New York, N. Y. Spool-box.....	520,355	May 22	2461	601	67	1041
Gelbaugh, William H., assignor of one-half to A. Hutchinson, Manitou, Colo. Nut-lock.....	526,896	Oct. 2	382	95	69	71
Geldowsky, Martha C., St. Louis, Mo. Dress-skirt.....	529,828	Nov. 27	2316	552	69	1118
Gelhaar, Otto. (See Leidgen, Nicolaus, assignor.)						
Gelina, John, et al. (See Winters, John W., assignor.)						
Gelinek, Ferdinand I., Riga, Russia. Process of and apparatus for the production of dough from cereals.....	523,116	July 17	1625	407	68	339
Gem City Manufacturing Company. (See Thies, John B., assignor.)						
Gem City Stove Manufacturing Company. (See Kaempfen, Folliert, Jr., assignor.)						
Gemlo Iron Works Company. (See Joncas, Henry, assignor.)						
Gemmer, George A., Williamsport, Ind. Hay-rake.....	518,993	May 1	91	22	67	552

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Gendron, Joseph A., assignor to M. H. St. Denis, Farnham, Canada. Car-coupling.....	516,158	Mar. 6	683	161	66	1581
General Electric Company. (See Ball, Henry P., assignor.)						
General Electric Company. (See Bassett, Norman C., assignor.)						
General Electric Company. (See Bell, Louis, assignor.)						
General Electric Company. (See Bentley, Edward M., assignor.)						
General Electric Company. (See Blood, John B., assignor.)						
General Electric Company. (See Burke, James, assignor.)						
General Electric Company. (See Burnett and Doane, assignors.)						
General Electric Company. (See Clark, John H., assignor.)						
General Electric Company. (See Darley, John W., Jr., assignor.)						
General Electric Company. (See Demmick, George W., assignor.)						
General Electric Company. (See Dewson, Edward H., Jr., assignor.)						
General Electric Company. (See Ekström, Axel, assignor.)						
General Electric Company. (See Elkins, William H., assignor.)						
General Electric Company. (See Erben, Hermann F. T., assignor.)						
General Electric Company. (See Fiske, Jonathan P. B., assignor.)						
General Electric Company. (See Foulds, John, Jr., assignor.)						
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General Electric Company. (See Knight, Walter H., assignor.)						
General Electric Company. (See Lieb, Charles A., assignor.)						
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General Electric Company. (See Metzger, Amandus, assignor.)						
General Electric Company. (See Moody, Walter S., assignor.)						
General Electric Company. (See Peirce, Arthur W. K., assignor.)						
General Electric Company. (See Potter, William B., assignor.)						
General Electric Company. (See Priest, Edward D., assignor.)						
General Electric Company. (See Reist, Henry G., assignor.)						
General Electric Company. (See Rice, Edwin W., Jr., assignor.)						
General Electric Company. (See Riddell, John, assignor.)						
General Electric Company. (See Robinson, Cyrus, assignor.)						
General Electric Company. (See Shugg, John H., assignor.)						
General Electric Company. (See Steinmetz, Charles P., assignor.)						
General Electric Company. (See Swan, Alfred, assignor.)						
General Electric Company. (See Thomson, Elihu, assignor.)						
General Electric Company. (See Thomson and Rice, assignors.)						
General Electric Company. (See Tinnerholm and Peterson, assignors.)						
General Electric Company. (See Turner, Ora N., assignor.)						
General Electric Company. (See Veeder, Curtis H., assignor.)						
General Electric Company. (See Veeder and Priest, assignors.)						
General Electric Company. (See Weber and Marcle, assignors.)						
General Electric Company. (See Whitmore, Frederic C., assignor.)						
General Electric Company. (See Wirt, Herbert C., assignor.)						
General Incandescent Arc Light Company. (See Lavens, Erwin, assignor.)						
General Incandescent Arc Light Company. (See Swoboda, Hans O., assignor.)						
Genett Air Brake Company. (See Rothschild, Moses L., assignor.)						
Gengnagel, Charles, Wabasha, Minn. Horse-hitching device.....	529,487	Nov. 20	1751	416	69	1003
Gennert, Emil F., Brooklyn, N. Y. Insulating-joint.....	514,822	Feb. 13	1407	355	66	1137
Genovar, Harry, Jacksonville, Fla. Apparatus for collecting drippings from beer-faucets and returning same to kegs under gas-pressure.....	523,274	July 17	1906	480	68	389
Gent, Joseph F., Columbus, Ind. Dust-collector.....	531,414	Dec. 25	2358	563	69	1692
Gentry, Neil. (See Easting, Eugene M., assignor.)						
Gentry, Neil. (See Shelton and Gentry.)						
Gentry, William T., Atlanta, Ga. Telephone-call-station instrument.....	516,433	Mar. 13	1148	275	66	1632
Gentry, William T., Atlanta, Ga. Telephone-call register.....	527,759	Oct. 16	1779	429	69	358
Genty, Owen B., Vallejo, Cal. Propeller.....	520,563	May 29	2626	682	67	1122
Geitzsch, Adolf, Vienna, Austria-Hungary. Insulating compound.....	517,452	Apr. 3	67	67	15	
Geo. F. Blake Manufacturing Company. (See Hall, Albert F., assignor.)						
Geo. F. Blake Manufacturing Company. (See Laval, George de, assignor.)						
Geo. F. Blake Manufacturing Company. (See Whiting and Wheeler, assignors.)						
Geo. V. Cresson Co. (See Pessano, Antonio C., assignor.)						
George A. Ohl & Company. (See Geissinger, Edward J., assignor.)						
George, Albert F., assignor of one-half to J. H. Fink, Kansas City, Mo. Mail-bag.....	530,683	Dec. 11	1085	263	69	1427
George, Amos D., Gibbon, Nebr. Potato-planter.....	512,370	Jan. 9	1055	264	66	210
George D. Ellis & Sons Company. (See Ellis, John D., assignor.)						
George F. Blake Manufacturing Company, of New Jersey. (See Hall and Gage, assignors.)						
George, Jerome R. (See Miller and George.)						
George, John S., Buffalo, N. Y. Slat-and-wire fabric.....	527,550	Oct. 16	1439	350	69	296
George, S. H., et al. (See Scates, George R., assignor.)						
George, William B., Columbus, Ohio. Car-fender.....	531,374	Dec. 25	2294	547	69	1679
George, William R., Staunton, Ill. Pnmp.....	531,111	Dec. 18	1807	429	69	1574
George Ziegler Company. (See Lucas, Henry, assignor.)						
Georges, Jules des, Paris, France. Brake for vehicles.....	529,785	Nov. 27	2235	533	69	1102
Gerard, John J., Minneapolis, Minn. Dust-collector.....	512,247	Jan. 2	854	206	66	161
Gérard, Joseph, Bradford, assignor of one-half to H. Yampel, Ashton, Ill. Carpet-rag looper.....	524,435	Aug. 14	821	200	68	829
Gerard, William L., Wichita, Kans. Disinfectant-cup.....	519,811	May 15	1546	378	67	854
Geran, Francis, Brooklyn, N. Y. Device for registering measures of liquids.....	519,181	May 1	434	106	67	621
Gerber, Charles, Washington, D. C., assignor of one-half to C. P. Young, York, Pa. Ham-mock-holder.....	512,580	Jan. 9	1411	340	66	278
Gerber, Emanuel, Chattanooga, Tenn. Pot or kettle.....	519,764	May 15	1465	355	67	839
Gerber, George H. (See Phillips, John H., assignor.)						
Gerber, Joseph. (See Tanner and Burch, assignors.)						
Gerber, Joseph, Fremont, Mich. Leather-shaving machine.....	512,953	Jan. 16	2076	492	66	418
Gerberens, Denis F., New York, N. Y. Chocolate dip or coating tray.....	522,788	July 10	1071	265	68	218

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Gerbig, August D., assignor to Laclede Car Company, St. Louis, Mo. Ratchet for car-brake shafts	517,405	Mar. 27	2836	{ 663 664	{ 66	2036
Gerding, Charles H. A., Nashville, Tenn. Ice-cream freezer	517,114	Mar. 27	2320	{ 546 547	{ 66	1935
Gerding, Louis F., and E. C. Harrison, St. Joseph, Mo. Brick-press	525,199	Aug. 28	2137	{ 521 522	{ 68	1094
Gerdorn, Gregory, West Troy, assignor of one-half to J. H. Reynolds, Troy, N. Y. Breech-loading ordnance	515,707	Feb. 27	2851	710	66	1435
Gere, George H., Grand Rapids, Mich. Carpet-sweeper	523,339	July 24	2025	509	68	428
Gere, George H., Grand Rapids, Mich. Dust-pan	531,177	Dec. 18	1932	459	69	1597
Gerhardt, Henry J., and F. E. Jageron, Neenah, Wis. Movement for shakers, &c.	526,389	Sept. 25	1871	445	68	1533
Geritz, Claus P., Freeland, and F. H. C. Stamm, Hazleton, Pa. Tobacco or snuff receptacle ..	523,632	July 24	2521	632	68	517
Gerlach, Carl C., assignor of one-half to R. P. Gerlach, Cleveland, Ohio. Electromagnet ..	529,325	Nov. 13	1434	345	69	928
Gerlach, Emil, Santa Monica, assignor of one-half to H. Matson and A. N. Bruhn, Los Angeles, Cal. Wave-motor	523,963	July 31	3135	781	68	647
Gerlach, Rudolph P. (See Gerlach, Carl C., assignor.)						
German, Solomon, Wetheredville, Md. Clothes-pin	519,998	May 15	1849	452	67	910
Gerry, Edward M., Brooklyn, N. Y. Tubular resonator	527,488	Oct. 16	1336	325	69	278
Gerry, James H., Brooklyn, assignor to Self Winding Clock Company, New York, N. Y. Electrical time signaling apparatus	513,262	Jan. 23	2560	{ 616 617 618	{ 66	582
Gerry, James H., and F. M. Schmidt, Brooklyn, assignors to Self Winding Clock Company, New York, N. Y. Electric-clock system	513,469	Jan. 23	2887	{ 710 711 712	{ 66	644
Gerson, Isidor I., administrator. (See Woodruff, Theodore T.)						
Gerteis, Louis. (See Baenziger, Emil F., assignor.)						
Gery, Aldis J., Dolgeville, and R. Dolge, New York, assignors, by mesne assignments, to C. F. Zimmermann Company, Dolgeville, N. Y. Harp	521,109	June 5	638	150	67	1312
Geselius, John A., Spring Vale, Minn. Drag-saw	520,640	May 29	2947	713	67	1144
Gessner, David, Worcester, Mass. Mechanism for oiling bearings	521,235	June 12	857	202	67	1366
Gessner, Ernst, Aue, Germany. Cloth-pressing machine	512,610	Jan. 9	1454	352	66	286
Gessner, Ernst, Aue, Germany. Ring-frame spindle	525,200	Aug. 28	2139	522	68	1094
Getchell, Augustus W., assignor of one-half to J. G. Chadwick, Cleveland, Ohio. Buoyant screw-propeller	512,186	Jan. 2	760	185	66	145
Getty, Fred I., assignor to National Chromatic Printing Company, Springfield, Ill. Printing-block	523,307	July 17	1958	{ 493 494	{ 68	400
Getty, Fred I., assignor to National Chromatic Printing Company, Springfield, Ill. Chromatic-printing block	523,308	July 17	1962	494	68	399
Getty, Fred I., assignor to National Chromatic Printing Company, Springfield, Ill. Printing-block	523,310	July 17	1968	495	68	401
Getty, Fred I., Springfield, assignor of one-half to I. W. Van Zandt, Bloomington, Ill. Chromatic-printing device	523,309	July 17	1964	{ 494 495	{ 68	400
Getze, Frank F., Los Angeles, Cal. Hasp-lock	531,178	Dec. 18	1932	460	69	1597
Geyer, George, Brooklyn, N. Y. Machine for softening skins	531,462	Dec. 25	2456	585	69	1710
Geyer, George H., assignor to Jones & Laughlin, Limited, Pittsburg, Pa. Molding	524,169	Aug. 7	348	81, 82	68	725
Geyer, George H., assignor to Jones & Laughlin, Limited, Pittsburg, Pa. Guide-pulley ..	525,319	Aug. 28	2320	564	68	1132
Gharkey, Sylvester, et al. (See Barr, Samuel D., assignor.)						
Gibbon, Thomas H., New York, N. Y. Construction of railway-tracks	523,340	July 24	2026	509	68	428
Gibboney, John W., Lynn, assignor to General Electric Company, Boston, Mass. Block system for electric railways	516,806	Mar. 20	1774	419	66	1814
Gibboney, John W., Lynn, assignor to General Electric Company, Boston, Mass. Lighting-arrester	520,776	June 5	26	5	67	1201
Gibboney, John W., Lynn, assignor to General Electric Company, Boston, Mass. System of power distribution and regulation	524,381	Aug. 14	727	176	68	811
Gibbons, Michael J., Dayton, Ohio. Grease-trap	530,684	Dec. 11	1087	264	60	1427
Gibbons, Pierce F., Oak Park, and E. Buchanan, Hebron, Ill., assignors to D. H. Burrell & Co., Little Falls, N. Y. Artificially enriching cheese	515,523	Feb. 27	2554	633	66	1377
Gibbons, William R. (See Conyngham and Gibbons.)						
Gibbs, Cyrenus A., Schenectady, N. Y. Grain measuring and registering apparatus	529,068	Nov. 13	987	{ 234 235	{ 69	845
Gibbs, Edmund D., assignor to National Cash Register Company, Dayton, Ohio. Duplicating order-book	518,400	Apr. 17	1675	414	67	339
Gibbs, Frances A., Philadelphia, Pa. Fastening for the ends of dress-stays	515,583	Feb. 27	2680	658	66	1396
Gibbs, Hiram H., Indianapolis, Ind. Elastic-tread horseshoe	522,789	July 10	1072	265	68	218
Gibbs, Jacob S., assignor to Perkins Electric Switch Manufacturing Company, Hartford, Conn. Electric switch	517,100	Mar. 27	2299	542	66	1931
Gibbs, James S. (See Pruyn, Henry S., assignor.)						
Gibbs, Lewis, Canton, Ohio. Lawn-rake	514,989	Feb. 20	1670	418	66	1201
Gibbs Loom, Harness and Reed Company. (See Vogelsang, Herman, assignor.)						
Gibbs, Robert R., Utica, N. Y. Die for cutting soles	518,596	Apr. 24	2006	497	67	413
Gibbs, William E., New York, N. Y. Percussion-tool	518,032	Apr. 10	1025	258	67	205
Giblin, John T., assignor of one-half to Springfield Emery Wheel Company, Bridgeport, Conn. Chuck for emery-wheels	523,890	July 31	2992	745	68	620
Gibney, John. (See Weller, Chester A., assignor.)						
Gibney, Terence, Rockaway, assignor of one-third to I. D. Condit, Jr., Dover, N. J. Device for holding pipe-nipples	515,826	Mar. 6	156	38	66	1482
Gibson, Brace, et al. (See Turner and Fletcher, assignors.)						
Gibson, Charles C., et al. (See Mackey, Frank M., assignor.)						
Gibson, Everett G., assignor of one-half to E. G. Durfee, Providence, R. I. Car-truck	517,688	Apr. 3	463	112	67	89
Gibson, Everett G., assignor of one-half to E. G. Durfee, Providence, R. I. Car-truck	517,744	Apr. 3	556	135	67	108
Gibson, Gerolt, St. Louis, Mo. Nut-lock	524,295	Aug. 7	553	131	68	760
Gibson, Patrick J. (See Cleather and Gibson.)						
Gibson, Ralph E. (See Dudley and Gibson.)						
Gibson, Robert A., Buffalo, N. Y. Vehicle-wheel rim	528,666	Nov. 6	263	65	69	693
Gibson, Wyatt, assignor of one-half to J. F. Sadler, Dodd, Tex. Beer-cooler	516,196	Mar. 13	757	177	66	1610
Giddings, C. M. (See Carpenter, Rolla C., assignor.)						
Giddings, Lois A., et al. (See Billings, George W., assignor.)						
Giddings, Lois A., et al. (See Childs, Charles H., assignor.)						
Giese, James A., assignor to Adams & Westlake Company, Chicago, Ill. Keyhole-guard ..	528,667	Nov. 6	263	65	69	693
Gieseler, K., et al. (See Evans, Morris, assignor.)						
Giesen, Andreas. (See Müller and Giesen.)						
Giesen, Conrad W. (See Snow, Charles A., assignor.)						
Giesler, Franklin B., Milwaukee, Wis. Furnace	526,524	Sept. 25	2104	501	68	1575
Giesler, Franklin B., Milwaukee, Wis. Atomizer	526,525	Sept. 25	2105	502	68	1575
Giessen, Charles H., Cleveland, Ohio. Tent-pole attachment	524,086	Aug. 7	198	44	68	697

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Giessler, William J., assignor of one-half to A. Kilpatrick and F. J. Hanleth, St. Louis, Mo. Fireproof door or shutter	530,410	Dec. 4	581	145	69	1321
Giffen, Robert K., Paterson, N. J. Seamless figured fabric	512,694	Jan. 16	1604	385	66	330
Gifford, Charles A., assignor to Taplin, Rice & Company, Akron, Ohio. Means for opening or closing air-inlet or draft doors	529,166	Nov. 13	1152	277	69	876
Gifford, Cyrus P., Erie, Pa. Mechanical toy speller	527,964	Oct. 23	2157	510	69	444
Gifford, Harry E., Wollaston, Mass., assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type-writing machine	523,788	July 31	2306	697	68	524
Gifford, Martin S., Lockport, N. Y. Lawn-rake.	530,041	Nov. 27	2701	649	69	1191
Giglio, Giovanni, New York, N. Y. Window.	521,585	June 19	1494	350	67	1499
Gilbert, A. E. (See Ruppel, Henry, assignor.)						
Gilbert & Barker Manufacturing Company. (See Clarke and Griffen, assignors.)						
Gilbert, Benjamin A., Boston, Mass., assignor to H. E. Kirstein, Rochester, N. Y. Bridge-spring for eyeglasses or spectacles	527,745	Oct. 16	1757	423	69	354
Gilbert Corset Company. (See Gilbert, Thomas S., assignor.)						
Gilbert, David D., New York, N. Y. Steam blower or injector for boiler-furnaces	526,703	Oct. 2	58	15	69	13
Gilbert, George H., Philadelphia, Pa. Cam for knitting-machines	521,367	June 12	1699	258	67	1412
Gilbert, Henry G., Dayton, Ohio. Brick-machine	518,597	Apr. 24	2006	498	67	413
Gilbert, Henry J., Saginaw, Mich. Wood pulley and building same	527,965	Oct. 23	2152	519	69	444
Gilbert, James R., Kissimee, Fla. Broom-head	521,161	June 12	728	172	67	1342
Gilbert, Joseph, Philadelphia, Pa. Handle for umbrellas	526,184	Sept. 18	1498	351	68	1448
Gilbert, Matthew C., Columbus, Ga. Motor	517,856	Apr. 10	723	182	67	154
Gilbert, Matthew C., assignor of one-half to H. A. Payne, Columbus, Ga. Wood-sawing machine	512,876	Jan. 16	1947	462	66	395
Gilbert, Thomas S., assignor to Gilbert Corset Company, Springfield, Mass. Abdominal corset	527,966	Oct. 23	2162	520	69	445
Gilbert, Thomas S., assignor to Gilbert Corset Company, Springfield, Mass. Corset	531,179	Dec. 18	1934	460	69	1598
Gilbert, Truman H. (See Hubbell and Gilbert.)						
Gilbert, William H. (See Howell and Gilbert.)						
Gilbreath, Emmett, <i>et al.</i> (See Cadenhead, Benjamin F., assignor.)						
Gilchrist, Peter S., Charleston, S. C. Apparatus for making sulfuric acid	527,680	Oct. 16	1653	398	69	335
Gilcrest, J. S., <i>et al.</i> (See Stanley, John E., assignor.)						
Gildersleeve, Ezra B., New York, N. Y. Clothes-drier	521,368	June 12	1100	258	67	1412
Gildersleeve, Frank D., St. Louis, Mo. Express-car	516,007	Mar. 6	443	102	66	1535
Gile, Jacob M., Denver, Col. Electrician's combination-tool	529,488	Nov. 20	1752	416	69	1004
Giles, Carl E., and A. H. Maxwell, Council Bluffs, Iowa; said Maxwell assignor to G. W. Sues, Omaha, Nebr. Hay rake and loader	511,887	Jan. 2	275	63	66	54
Giletti, Secondo. (See Chatain and Giletti.)						
Gilhaus, George E. (See Clark and Gilhaus.)						
Gilhaus, George E., and J. A. Richter, Kansas City, Kans. Gas-purifying apparatus	525,072	Aug. 28	1917	469	68	1057
Gill, George C., Chicago, Ill., and L. C. Atwood, St. Louis, Mo.; said Atwood assignor to said Gill. Lantern	519,255	May 1	570	133	67	648
Gill, John. (See Pullan, Mann, and Gill.)						
Gill, John E., Franklin, Pa. Car-axle lubricator	524,318	Aug. 14	598	144	68	789
Gill, Leonard U. (See Bradley, Alfred, assignor.)						
Gill, Thomas, Cleckheaton, England. Gas-reflector	518,598	Apr. 24	2008	499	67	413
Gillam, Manly M., Philadelphia, Pa. Art of and apparatus for coloring the printing-surface of cast type	518,063	Apr. 10	1082	273	67	214
Gillen, Albert L., Bradford, and A. Godfrey, Haverhill, Mass. Sofa-bed	526,150	Sept. 18	1442	337	68	1438
Giller, John R., assignor to Randolph & Clowes, Waterbury, Conn. Lavatory-leg	516,679	Mar. 20	1578	376	66	1779
Gillespie, Thomas W. (See Wynn and Gillespie.)						
Gillot, Alexis F., assignor to himself, G. W. and J. D. Whiteaker, Kearney, Nebr. Steam-generator	518,101	Apr. 10	1140	287	67	224
Gillett, Abbie W. (See Merrill, Marcus H., assignor.)						
Gillette, Mott G. (See Parker and Gillette.)						
Gillette, Mott G., New York, N. Y. Hair-clipper	525,783	Sept. 11	803	184	68	1311
Gillette, Webster, assignor to A. S. Williams, New York, N. Y. Telephone signaling system	514,823	Feb. 13	1408	356	66	1137
Gillham, Robert J., Orlando, Fla. Combined measure and funnel	520,307	May 22	2395	582	67	1025
Gilliam, John W. T., Baltimore, Md. Sash fastener and operator	513,388	Jan. 23	2747	669	66	618
Gilliam, John W. T., Baltimore, Md. Railway-car fender	520,320	May 22	2270	552	67	1001
Gillies, Daniel, <i>et al.</i> (See Himes, Jndson W., assignor.)						
Gilliland, Ezra T., Pelham Manor, N. Y., assignor to American Bell Telephone Company, Boston, Mass. Telephone-call system	525,702	Sept. 11	661	155	68	1285
Gilliland, Ezra T., Pelham Manor, N. Y., assignor to American Bell Telephone Company, Boston, Mass. Telephone-call system	525,703	Sept. 11	663	155	68	1285
Gilliland, Ezra T., and F. W. Toppan, New York, N. Y. Attachment for automatically operating photographs	518,209	Apr. 10	1332	333	67	260
Gilliland, James A., Warrensburg, Mo. Shipping-coop for poultry	529,259	Nov. 13	1324	318	69	906
Gilling, John A., assignor to himself, L. and J. Dondero, Chicago, Ill. Awning-worker	523,519	July 24	2346	599	68	424
Gilling, Frank E., assignor of two-thirds to F. M. Oliver and F. J. Shovar, Toledo, Ohio. Car-brake	518,401	Apr. 17	1677	414	67	339
Gillingham, John, assignor of one-third to J. Deakyn, Wilmington, Del. Bicycle	530,042	Nov. 27	2702	649	69	1191
Gillispie, Robert A., <i>et al.</i> (See Curry, James H., assignor.)						
Gilman, Benjamin I., Brookline, Mass. Book-holder	529,442	Nov. 20	1668	397	69	990
Gilman, Isaac H., Beloit, Wis. Tool-grinder	512,545	Jan. 9	1358	328	66	268
Gilmartin, Thomas J., Ogden, Utah Ter. Refrigerator-car	522,112	June 26	2417	580	67	1688
Gilmore, Charles C., Indianapolis, Ind. Gas-making apparatus	514,185	Feb. 6	346	83, 84	66	919
Gilmore, Mathew. (See Hawkins and Gilmore.)						
Gilmore, William B., Columbia, Ill. Bait-receptacle	531,112	Dec. 18	1808	430	69	1574
Gilmore, William C., Letts, assignor to L. Van Horn & Snyder, Louisa county, Iowa. Hand garden-plow	528,937	Nov. 13	768	181	69	307
Gilpa, Tilman, and L. McHargue, Broadhead, Ky. Drilling-machine	528,472	Oct. 30	3048	739	69	619
Gilson, William L. (See Bailey and Gilson.)						
Gilson, William M., Blanchard, Iowa. Photographic head and body rest	527,056	Oct. 9	629	153	69	133
Gilstrap, James W., Rolla, and W. D. Gilstrap, Racine, assignors of one-third to A. L. McRae, Rolla, Mo. Burglar-alarm for sates	530,411	Dec. 4	582	145	69	1322
Gilstrap, William D. (See Gilstrap, James W. and W. D.)						
Gindele, Albert H., Jersey City, N. J. Condenser and drip for gas-service pipes	520,675	May 29	3023	731	67	1157
Gindler, Carl, Salzgitter, Germany. Horse-hoe	527,419	Oct. 16	1220	298	69	254

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Gindorff, Peter. (See Gindorff, Matthew, assignor.)						
Ginn, Isaac M., Blanchard Springs, Ark. Coffee-stirrer.....	513,179	Jan. 23	2415	583	66	554
Ginn, William E., assignor of fifty-one one-hundredths to L. Steigerwald, Baltimore, Md. Scissors or knife sharpener.....	525,414	Sept. 4	168	43	68	1182
Gipe, Emanuel C., assignor to Standard Store Service Company, Freeport, Ill. Package-carrier.....	528,203	Oct. 30	2578	624	69	535
Girard, Arthur L., Lincoln, Nebr. Bicycle-seat.....	523,341	July 24	2028	500	68	428
Girard, Moses D., Pentwater, Mich. Lumberman's rubber and stocking.....	528,473	Oct. 30	3049	740	69	619
Gird, William K., Chino, Cal. Beet-harvester.....	512,287	Jan. 9	925	225	66	187
Girouard, Theophile, St. Catharines, Canada. Exterior finish for frame structures.....	529,722	Nov. 27	2136	511	69	1084
Giroud, Peter G., Newark, N. J., assignor to Accurate Time Stamp Company, Wheeling, W. Va., and New York, N. Y. Time-stamp motor.....	522,730	July 10	964	241	68	199
Girr, Frederick, Hoboken, N. J. Pulley.....	529,028	Nov. 13	917	218	69	833
Girvan, George T. (See Girvan, Thomas, assignor.)						
Girvan, Thomas, assignor to G. T. Girvan, New York, N. Y. Reduction apparatus.....	522,590	July 10	712	182	68	155
Gist, John A. L., Curia, Ark. Weight for plow-beams.....	531,027	Dec. 18	1658	393	69	1547
Gist, Lane, Scranton, assignor of one-half to G. L. Brower, Des Moines, Iowa. Well-boring apparatus.....	530,989	Dec. 18	1589	377	69	1534
Gitchell, Albert W., Rockford, Ill. Leaf-turner.....	516,008	Mar. 6	445	102	66	1535
Githens, George M., Brooklyn, N. Y. Blasting rock.....	512,816	Jan. 16	1835	434	66	374
Githens, George M., Brooklyn, N. Y. Rock drilling and splitting.....	517,689	Apr. 3	464	112	67	89
Githens, George M., Brooklyn, N. Y. Packing for rock-drilling engines.....	517,690	Apr. 3	466	112	67	90
Given, Andrew, and C. B. Smith, Dunedin, New Zealand. Expanding pulley.....	516,197	Mar. 13	758	177	66	1610
Givens, Frank M. (See Cooper, Edward H., assignor.)						
Givens, Royal. (See Jarmin, George W., assignor.)						
Givens, Rovall, Corpus Christi, Tex. Soot-preventing composition.....	523,117	July 17	1627		68	340
Gladding, George S., Chester, Conn. Bath or flesh brush.....	511,769	Jan. 2	43	11	66	11
Gladfelter, George, Cedar Rapids, Iowa. Car-coupling.....	529,029	Nov. 13	918	218	69	833
Gladwin, Frederic E. (See English and Gladwin.)						
Glahn, George A., assignor to Simpson, Hall, Miller & Co., Wallingford, Conn. Orange-holder.....	527,603	Oct. 16	1524	370	69	311
Glahn, Henry von. (See Doelle and Glahn.)						
Glanville, William W., San Francisco, Cal. Insole.....	511,942	Jan. 2	363	85	66	69
Glaser, Hermann, Vienna, Austria-Hungary. Candle-grasp.....	531,028	Dec. 18	1658	393	69	1547
Glasgow, Arthur G., London, England. Water-gas apparatus.....	519,039	May 1	165	39	67	568
Glasgow, Arthur G., London, England. Water-gas apparatus.....	519,040	May 1	166	40	67	568
Glasgow, Robert E., Richmond, Va. Wrapper-holder.....	512,019	Jan. 2	484	115	66	93
Glass, Carl R. (See Quietzsch and Glass.)						
Glass, Sheldon J., Milwaukee, Wis. Electrically-operated register.....	522,113	June 26	2419	581	67	1688
Glauber, Isaac N., Cleveland, Ohio. Attachment for washstands.....	526,390	Sept. 25	1873	445	68	1534
Glauber, Isaac N. and J. H., Cleveland, Ohio. Step-valve for water pipes or mains. (Reissue.)	11,431	July 10	1344	334	68	271
Glauber, Joseph H. (See Glauber, Isaac N. and J. H.) (Reissue.)						
Glazier, Elias C., Rochester, N. Y. Headlight.....	517,920	Apr. 10	826	207	67	173
Glazier, Frank P. (See Welch, Allie R., assignor.)						
Glazier, George W., Salem, Mass. Paper-box-setting-up machine.....	515,207	Feb. 20	2017	{ 503 } { 504 }	{ 66 } { 66 }	{ 1264 } { 1264 }
Gleason, Benjamin F., Brockport, N. Y. Flower-bracket for burial-caskets.....	519,426	May 8	889	215	67	722
Gleason, Duane N. (See Wunderlich and Gleason.)						
Gleason, Edward D., Philadelphia, Pa. Differential pulley.....	514,888	Feb. 13	1520	{ 380 } { 381 }	{ 66 } { 66 }	{ 1158 } { 1158 }
Gleason, Henri B., Oneida, N. Y. Wheel.....	528,125	Oct. 23	2443	591	69	495
Gleason, James E. (See Gleason, William and J. E.)						
Gleason, Jedediah F., Quincy, Mass. Device for filling joints of metal pipe.....	519,672	May 8	1315	315	67	798
Gleason, Michael, Liberty, Ind. Fence-machine.....	525,495	Sept. 4	292	72	68	1206
Gleason, William, Rochester, N. Y. Feed mechanism for metal-planers.....	514,594	Feb. 13	1042	261	66	1066
Gleason, William and J. E., Rochester, N. Y. Automatic gear-planer.....	518,497	Apr. 17	1832	{ 455 } { 456 } { 144 }	{ 67 } { 67 }	{ 368 } { 368 }
Gledhill, Benjamin H., Philadelphia, Pa. Jacquard mechanism for looms.....	524,319	Aug. 14	600	{ 144 } { 145 }	{ 68 } { 68 }	{ 789 } { 789 }
Gledhill, Benjamin H., Philadelphia, Pa. Jacquard mechanism for looms.....	526,365	Sept. 18	1820	{ 432 } { 433 }	{ 68 } { 68 }	{ 1512 } { 1512 }
Gledhill, Manassah, assignor to Sir Joseph Whitworth & Company, Limited, Manchester, England. Device for inserting or removing tubes in ordnance.....	523,633	July 24	2522	{ 632 } { 633 }	{ 68 } { 68 }	{ 517 } { 517 }
Gleixner, Joseph A., Fair Haven, and P. Schaif, Baldwin, Pa. Seed-sower.....	515,208	Feb. 20	2020	504	66	1264
Glen Cove Machine Company. (See Stuart, Charles C., assignor.)						
Glenn, John H., assignor of two-thirds to G. G. Kurtz, Harriman, Tenn., and J. H. Kurtz, Shenandoah, Pa. Composition for plaster.....	514,357	Feb. 6	643	164	66	974
Glenzer, Henry. (See Forth and Glenzer.)						
Gluck, Henry S., Casey, Ill. Wheel.....	523,342	July 24	2030	510	68	429
Glines, Humphrey M., assignor of one-half to H. F. Livermore, Boston, Mass. Pipe or nut wrench.....	525,320	Aug. 28	2331	564	68	1132
Globe Buffer Company. (See Webster, Harold A., assignor.)						
Globe Button-Hole Machine Company. (See Dahl, Charles A., assignor.)						
Globe Button-Hole Machine Company. (See Thomson, Robert W., assignor.)						
Globe Company. (See Carnahan, Charles M., assignor.)						
Globe Company. (See Dom, Alexander, assignor.)						
Globe Register Company. (See Fisher, Charles, assignor.)						
Glover, Charles, assignor to P. & F. Corbin, New Britain, Conn. Manufacture of brackets for transom-lifters.....	515,670	Feb. 27	2785	694	66	1423
Glover, Henry P. (See Lockwood, George D., assignor.)						
Gloze, William L., et al. (See Evans, John F., assignor.)						
Glyn, Thomas, Philadelphia, Pa. Coffee-pot.....	530,835	Dec. 11	1324	318	69	1472
Gnant, Franz E., Munich, Germany. Apparatus for decorating glass.....	513,180	Jan. 23	2416	583	66	554
Goan, Peter, assignor of one-half to M. V. Barney, Chicago, Ill. Steam-separator.....	525,012	Aug. 28	1802	440	68	1036
Gobber, John. (See Stanley, Oramel C., assignor.)						
Godbey, Thomas K., Waldo, Fla. Fruit-clipper.....	519,999	May 15	1850	452	67	910
Godchaux, Ernest, La Roche-sur-Chiers, France. Product for oiling wool.....	515,077	Feb. 20	1807		66	1235
Goddard, Asa, Worcester, Mass. Drilling-machine.....	520,142	May 22	2118	517	67	973
Goddin, Edgar A., London, England. Apparatus for use in printing letters or other indications for indexes of books, &c.....	522,890	July 10	1209	301	68	244
Godfrey, Alexander. (See Gillen and Godfrey.)						
Godfrey, George L., Old Town, Me. Boat.....	529,786	Nov. 27	2237	533	69	1102

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Godfrey, Henry W., C. F. Leake, and C. E. Lucas, London, England. Method of and apparatus for manufacturing floor-cloth	514,186	Feb. 6	347	84	66	919
Godfrey, Joseph S., assignor of one-half to S. H. Row, Lansing, Mich. Rotary pressure-blower or force-pump	517,273	Mar. 27	2580	605	66	1986
Godfrey, William S., Providence, R. I. Button	519,946	May 15	1760	431	67	894
Goding, Edwin L., assignor to Holdfast Sole Stay Company, Portland, Me. Shoe	521,789	June 26	1849	440	67	1582
Godwin, Lorenzo R., Memphis, Tenn. Adjustable gate for street-cars	524,040	Aug. 7	118	26	68	684
Goebel, August, Trobnitz, Germany. Mechanism for facilitating climbing hills	516,372	Mar. 13	1052	249 } 250 }	66	1664
Goeddel, Albert C., Pittsburg, Pa., assignor to W. G. Miller. Attachment for cook-stoves	513,967	Jan. 30	3709	913	66	835
Goeblor, George J. H., assignor to Cary Safe Company, Limited, Buffalo, N. Y. Safe	524,941	Aug. 21	1662	407	68	993
Goehring, Elias A., Beaver Falls, Pa. Fence	517,921	Apr. 10	828	208	67	174
Goellner, Frederick, et al. (See Schweitzer, Albert, assignor.)						
Goerger, John E., St. Louis, Mo. Bottle-rack	526,309	Sept. 18	1716	404 } 405 }	68	1492
Goerlitz, Philip, New York, N. Y. Ventilator	522,410	July 3	407	104	68	81
Goersch, Charles, Jeddo, Pa. Tree-protector	531,113	Dec. 18	1810	430	69	1575
Goertz, August, Newark, N. J. Purse or coin receptacle	519,765	May 15	1468	356	67	839
Goetz, Carl P., Schöneberg, and E. Von Höegh, Wilmsdorf, Germany. Lens for optical purposes	528,155	Oct. 30	2495	604	69	520
Goetsch, Herman, Chicago, Ill., assignor of one-half to J. W. Sefton Manufacturing Company, of Indiana. Paper box	530,334	Dec. 4	456	114	69	1297
Goetz, George W., Milwaukee, Wis. Extracting copper from its ores	519,111	May 1	291		67	591
Goetz, George W., Milwaukee, Wis. Removing enamel from metal	528,156	Oct. 30	2497		69	520
Goetz, Henry A., New Albany, Ind. Anchor-box	517,186	Mar. 27	2448	576	66	1960
Goetz, Henry A., New Albany, Ind. Joist-hanger	522,829	July 10	1132	281	68	229
Goetze, Carl W., and A. Knopp, Chicago, Ill. Billiard or pool register	523,468	July 24	2248	565	68	466
Goetze, Max, Sturgis, S. D. Finger-rest for penholders	516,009	Mar. 6	447	102	66	1535
Goff, Frank, Camdon, and T. H. Joiner, Burlington, N. J. Magazine-lighter	521,466	June 19	1285	299	67	1462
Goff, Hubbard S., and A. B. Judkins, Los Angeles, Cal. Trap	513,915	Jan. 30	3627	894	66	819
Goff, Hubbard S., Lordsburg, and A. B. Judkins, Los Angeles, Cal. Fish-hook	519,684	May 8	1342	324	67	802
Goff, Joseph G., Philadelphia, Pa. Perforating device	526,777	Oct. 2	181	42	69	34
Goff, Joseph M., Ruston, La. Grocer's cabinet	529,528	Nov. 20	1828	434 } 435 }	69	1018
Goforth, William A., Duquoin, Ill. Krant-cutter	528,157	Oct. 30	2497	604	69	520
Gogle, John E., Middleville, Mich. Seal	528,089	Oct. 23	2381	574	69	464
Göhring, Paul, Ober-Ursel, assignor to Eisengiesserei und Maschinenfabrik für Schuh und Lederindustrie, vormals Miller & Andreæ, Bockenheim, near Frankfort-on-the-Main, Germany. Sewing-machine	521,855	June 26	1851	469 } 470 }	67	1602
Göhring, Paul, Ober-Ursel, assignor to Deutsch-Amerikanischen Maschinen-Gesellschaft, Frankfort-on-the-Main, Germany. Sewing-machine	521,856	June 26	1953	470	67	1602
Gold Car Heating Company et al. (See Lamplough, Frederick, assignor.)						
Gold, Egbert H., Chicago, Ill. Steam-trap	511,943	Jan. 2	364	85	66	69
Gold, Egbert H., Chicago, Ill. Car-heating system	528,158	Oct. 30	2498	604 } 605 }	69	520
Gold, Egbert H., Chicago, Ill. Car-heater	529,723	Nov. 27	2137	511 } 512 }	69	1085
Gold, Edward E., New York, N. Y. Drainage-trap for steam-pipes	522,253	July 3	134	32	68	26
Goldbacher, Joseph N., New York, N. Y. Pneumatic tire	526,185	Sept. 18	1498	351	68	1448
Goldberg, Eugene, Philadelphia, Pa. Fire-escape	516,528	Mar. 13	1319	314	66	1714
Göhring, Otilie H., St. Louis, Mo. Car-ventilator	527,241	Oct. 9	921	222	69	186
Golden, Timothy J., Jacksonville, Fla. Umbrella drip-cap	516,391	Mar. 13	1082	257	66	1669
Goldsensky, Benson, Philadelphia, Pa. Truck	523,520	July 24	2347	589	68	484
Goldie, William. (See Rounds, Herbert G., assignor.)						
Golding, Bertha F., Chicago, Ill. Abdominal supporter	522,366	July 3	325	83, 84	68	64
Golding, John F., Chicago, Ill. Partition for buildings	530,940	Dec. 18	1501	355	69	1519
Golding, John F., Chicago, Ill., assignor to Expanded Metal Company, of Missouri. Making expanded sheet metal	527,242	Oct. 9	922	222	69	187
Golding, John F., assignor to Standard Fire Proofing Company, Chicago, Ill. Construction of floors and ceilings	529,724	Nov. 27	2139	512 } 416 }	69	1085
Golding, William H., Newton, Mass. Printing-press	529,489	Nov. 20	1753	417 }	69	1004
Goldman, Cimon S., New York, N. Y. Needle-threader	524,896	Aug. 21	1578	386 } 624 }	68	979
Goldman, Edward, Baltimore, Md. Machine for winding cotton web or similar material	520,420	May 29	2581	625 } 625 }	67	1077
Goldman, Edward, Baltimore, Md., assignor to Eureka Coat Pad Company of Baltimore City, of Maryland. Machine for shaping fleecy masses	520,419	May 29	2578	623 } 624 }	67	1076
Goldman, Isaac S., Los Angeles, Cal. Musical instrument	515,671	Feb. 27	2786	694	66	1423
Goldman, Joseph, Chicago, Ill. Ash-sieve	517,139	Mar. 27	2357	556	66	1942
Goldman, Samuel S., St. Louis, Mo. Show-top	526,186	Sept. 18	1500	351	68	1448
Goldman, Samuel S., St. Louis, Mo. Bathing apparatus	527,057	Oct. 9	631	153	69	133
Goldmann, Philipp, New York, N. Y. Life-preserving or swimming apparatus	516,720	Mar. 20	1640	390	66	1790
Goldmann, Philipp, New York, N. Y. Device for adjusting window-shades, &c	521,408	June 12	1163	276	67	1424
Goldmark, Leo. (See Nienstaedt, Ernest, assignor.)						
Goldrick, Henry P. (See Smith and Goldrick.)						
Goldschmidt, Michael, et al. (See Heinrich, Oswald, assignor.)						
Goldschmidt, Philipp, et al. (See Heinrich, Oswald, assignor.)						
Goldschmidt, Siegfried, et al. (See Heinrich, Oswald, assignor.)						
Goldsmith, Byron B., New York, N. Y., and W. Burt, Jersey City, N. J., assignors to American Lead Pencil Company, New York, N. Y. Magazine lead-pencil	512,954	Jan. 16	2078	492	66	418
Goldsmith, Nathaniel O. (See Mellen and Goldsmith.)						
Goldsmith, Nathaniel O., assignor to Weir Frog Company, Cincinnati, Ohio. Spring-frog	528,474	Oct. 30	3050	740	69	620
Goldsmith, William H., Berkeley, R. I. Drawing-roll for machines for working fibrous materials	512,651	Jan. 9	1533	367 } 327 }	66	302
Goldstein, Philip, Newark, N. J. Leather-cutting machine	521,538	June 19	1411	326 } 327 }	67	1464
Goldwater, Morris, Prescott, Ariz. Ter. Tobacco-jar	516,303	Mar. 13	926	217	66	1642
Golle, Charles. (See Bartelt, Golle, and Stein.)						
Golling, Charles H., and G. W. Lea, Nevada, Ohio. Peanut sheller and separator	512,288	Jan. 9	926	225	66	187
Gollings, Ellick H., assignor to G. Graham, Chicago, Ill. Depurator	517,274	Mar. 27	2561	605	66	1986
Gollins, Edwin, Columbus, Ohio. Bit for cutting rosettes	517,691	Apr. 3	467	112	67	90
Gölsdorf, Karl, Vienna, Austria-Hungary. Compound locomotive-engine	526,778	Oct. 2	183	43	69	35
Gómez, Alfredo D., Bucaramanga, Colombia. Boat	514,824	Feb. 13	1410	356	66	1138
Gonder, Philip, Canton, Ohio. Brick-kiln	523,275	July 17	1907	480	68	389

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Gong Bell Manufacturing Co. (See Barton, Elijah C., assignor.)						
Gong, Wong I., New York, N. Y. Gear-casing for clothes-wringers	515,910	Mar. 6	278	65	66	1505
Gonon, Paul E., New York, N. Y. Envelope-fastener	513,568	Jan. 30	3077	756	66	714
Gonser, Alfred, Canton, Ohio. Combined step and extension ladder and ironing-board support	526,570	Sept. 25	2173	519	68	1588
Gontyon, Ira H., Westborough, Mass., assignor to Wilcox & Gibbs Sewing Machine Company, of New York. Straw-braid-sewing machine	513,500	Jan. 30	2952	726	66	691
Gooch, Charles, Cincinnati, Ohio. Ice-cream freezer	525,650	Sept. 4	543	132	68	1252
Gooch, Frank A. (See Waldo and Gooch.)						
Gooch, Frank A., New Haven, and L. Waldo, Bridgeport, Conn.; said Waldo assignor to Waldo Foundry, of New Jersey. Reducing aluminium	527,847	Oct. 23	1930	464	69	402
Gooch, Frank A., New Haven, and L. Waldo, Bridgeport, Conn.; said Waldo assignor to Waldo Foundry, of New Jersey. Reducing aluminium	527,848	Oct. 23	1934	464 465	69	402
Gooch, Frank A., New Haven, and L. Waldo, Bridgeport, Conn.; said Waldo assignor to Waldo Foundry, of New Jersey. Reducing aluminium	527,849	Oct. 23	1937	465	69	403
Gooch, Frank A., New Haven, and L. Waldo, Bridgeport, Conn.; said Waldo assignor to Waldo Foundry, of New Jersey. Reducing aluminium	527,850	Oct. 23	1941	465 466	69	403
Gooch, Frank A., New Haven, and L. Waldo, Bridgeport, Conn.; said Waldo assignor to Waldo Foundry, of New Jersey. Reducing aluminium	527,851	Oct. 23	1945	466	69	404
Gooch, Frank A., New Haven, and L. Waldo, Bridgeport Conn.; said Waldo assignor to Waldo Foundry, of New Jersey. Reducing aluminium	528,365	Oct. 30	2859	692 693	69	586
Good, John M. (See Wolf, Elmer E., assignor.)						
Good, Jonathan, deceased, Ridley Park, Pa.; M. P. Good, administratrix. Toy pistol	518,882	Apr. 24	2492	618	67	499
Good, Mary P., administratrix. (See Good, Jonathan.)						
Good, Robert, Jr., Poughkeepsie, N. Y. Snap-rest	531,526	Dec. 25	2550	612	69	1730
Good, Thomas L., Wanda, Ill. Potato-planter	518,141	Apr. 10	1202	301	67	235
Good, William E., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine or compressor	515,331	Feh. 27	2246	556 557 558	66	1319
Good, William E., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine or compressor	526,031	Sept. 18	1229	283 284	68	1400
Good, William E., and G. B. Petsche, assignors to Southwark Foundry and Machine Company, Philadelphia, Pa. Compound engine	515,332	Feb. 27	2249	558	66	1320
Goodbody, John H., Brooklyn, N. Y. Hook or eye strip	529,550	Nov. 20	1865	443	69	1024
Goode, Edward, assignor of one-half to T. A. Goode, Bartow, Fla. Artificial stone	518,239	Apr. 17	1386		67	266
Goode, Joseph H., W. H. Anthony, and T. S. Lloyd, Richmond, Va. Grain-car door	515,672	Feb. 27	2788	694 695	66	1424
Goode, Thomas A. (See Goode, Edward, assignor.)						
Goodell, Adelbert. (See Parks and Goodell.)						
Goodell, Albert D., Worcester, Mass. Combined binge-gage and square	531,114	Dec. 18	1811	430	69	1575
Goodell, Charles J., Mokense, Ill. Shingling-hatchet	522,688	July 10	878	217	68	185
Goodgion, Hervey C., New York, N. Y., assignor of one-half to W. Soder, Orange, N. J. Folding square	512,436	Jan. 9	1182	287	66	235
Goodhand, James E., Baltimore, Md. Distribution system for electric railways	518,782	Apr. 24	2335	579	67	471
Goodhue, Charles F., Boston, Mass. Automatic heat-regulating apparatus	516,198	Mar. 13	759	177 178	66	1610
Goodhue, Walter S. (See Chapoan and Goodhue.)						
Gooding, Charles S. (See Knight and Gooding.)						
Gooding, Charles S. (See Parmenter and Gooding.)						
Gooding, Charles S., Brookline, and W. E. C. Goudey, Melrose, assignors to R. D. Evans, J. S. Lockwood, Boston, and M. E. Knight, South Framingham, Mass. Reel	527,368	Oct. 9	1135	277	69	226
Gooding, Josiah C., Covington, Ind. Book-holder	515,209	Feb. 20	2023	505	66	1265
Goodlett, Robert D., Nashville, Tenn. Match-safe	518,994	May 1	93	22	67	553
Goodliffe, Walter, Cambridge, England. Bedstead	520,733	May 29	3112	753 754	67	1174
Goodman, Abraham. (See Earl and Goodman.)						
Goodman, Cassel. (See Sherman and Goodman.)						
Goodman, Daniel A., Salisbury, N. C. Treating hides	528,427	Oct. 30	2969		69	605
Goodman, Edward H., Pittsburg, assignor to Union Switch and Signal Company, Swissvale, Pa. Signal	527,967	Oct. 23	2164	520	69	445
Goodman, Henry M. (See Goodman, John and H. M.)						
Goodman, Henry M. and J. Louisville, Ky. Telephone-transmitter	520,306	May 22	2393	581	67	1025
Goodman, John. (See Goodman, Henry M. and J.)						
Goodman, John and H. M., Louisville, Ky. Telephone-transmitter	518,142	Apr. 10	1205	302	67	236
Goodman, John and H. M., Louisville, Ky. Telephone-transmitter	525,201	Aug. 28	2140	522	68	1095
Goodman, John and H. M., Louisville, Ky. Telephone-transmitter	530,412	Dec. 4	584	145	69	1322
Goodman, Margaret, administratrix. (See Goodman, William.)						
Goodman, William, deceased, Minneapolis, Minn.; M. Goodman, administratrix. Piston-packing	525,073	Aug. 28	1920	470	68	1057
Goodnough, Charles S., Nough, Tenn. Combined rolling-pin and dough-cutter	522,465	July 3	504	138	68	100
Goodnow, Julius S., Brooklyn, N. Y. Store-service apparatus	521,283	June 12	938	222 223	67	1380
Goodrich, Benjamin F., and J. M. Merritt, Homer, Mich.; said Merritt assignor to said Goodrich. Wick-fastener	513,501	Jan. 30	2954	727	66	692
Goodrich, Charles E., assignor of one-half to T. J. Osborne, Pioche, Nev. Curtain-fixtue	517,453	Apr. 3	68	15	67	15
Goodrich, Emory W., Somerville, assignor to G. A. Parker, Reading, Mass. Combination-lock	512,187	Jan. 2	761	185	66	145
Goodrich, Frank L., assignor to National Sewing Machine Company, Belvidere, Ill. Vehicle-wheel rim	530,990	Dec. 18	1591	378	69	1534
Goodrich, Harry C., Chicago, Ill. Curling-iron heater for lamps	526,391	Sept. 25	1874	445	68	1534
Goodrich, Lorenzo, Nashville, Tenn. Metal roofing-shingle	512,188	Jan. 2	762	186	66	145
Goodrich, Louisa M. (See Coleman, Clyde J., assignor.)						
Goodsell, Zalmon. (See Grunow, William, Jr., assignor.)						
Goodson, George A., assignor to Goodson Type Casting and Setting Machine Company, Minneapolis, Minn. Apparatus for casting molten material	530,479	Dec. 4	691	173 173 174 175 176 177	69	1342
Goodson, George A., assignor to Goodson Type Casting and Setting Machine Company, Minneapolis, Minn. Type casting and setting machine	530,481	Dec. 4	694		69	1342
Goodson Type Casting and Setting Machine Company. (See Goodson, George A., assignor.)						
Goodspeed, Albina E., New York, N. Y., and J. Edson, Boston, Mass. Pump	512,611	Jan. 9	1456	352	66	286
Goodwillie, Charles F., assignor to D. M. Goodwillie Company, Chicago, Ill. Stamp groove or recess for shipping-cases	520,921	June 5	306	75	67	1253

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Goodwin, Adolphus D., Haran, Va. Water-conveyer	528,090	Oct. 23	2382	{ 574 575 }	69	485
Goodwin, Albert C. (See Wyman, Horace B., assignor.)						
Goodwin, Edwin B., Boulder, Colo. Roasting-furnace	527,746	Oct. 16	1758	423	69	354
Goodwin, Hannibal, Newark, N. J. Ornamenting and etching precious metal	517,275	Mar. 27	2583	.....	66	1986
Goodwin, Harry B., assignor to Goodwin Meter Company, Bordentown, N. J. Register for gas-meters, &c.	517,406	Mar. 27	2837	664	66	2036
Goodwin, Henry L., New York, N. Y., assignor to J. Starr, Halifax, Canada. Fire-ladder apparatus	522,938	Nov. 13	769	{ 181 182 }	69	808
Goodwin, John, assignor of one-half to J. F. Alderman, Savannah, Ga. Steam-boiler furnace	516,647	Mar. 20	1519	361	66	1768
Goodwin, Julius C., Philadelphia, Pa. Trimmer for sewing-machines	517,140	Mar. 27	2358	556	66	1942
Goodwin, Julius C., Philadelphia, Pa. Sewing-machine	517,141	Mar. 27	2359	557	66	1942
Goodwin, Lewis. (See Morris and Goodwin.)						
Goodwin Meter Company. (See Goodwin, Harry B., assignor.)						
Goodwin, Otis F., Valdosta, Ga. Roller cotton-gin	530,941	Dec. 18	1502	356	69	1519
Goodwin, Richard D., et al. (See Howe, Patrick, assignor.)						
Goodwin, William H. J., Raleigh, N. C. Cotton-chopper	517,570	Apr. 3	253	59	67	49
Goodyear, George C., Flint, Mich. Rotary cutter-head	520,046	May 22	1931	473	67	941
Goodyear Shoe Machinery Company. (See Briggs, Henry, assignor.)						
Goodyear Shoe Machinery Company. (See Crisp and Grandy, assignors.)						
Goodyear Shoe Machinery Company. (See Grandy, Edward F., assignor.)						
Goodyear Shoe Machinery Company. (See Hawkins, Lorenzo P., assignor.)						
Gould, Frederick D., Schenectady, assignor to Edison General Electric Company, New York, N. Y. Recording-voltmeter	525,894	Sept. 11	1012	228	68	1348
Gooley, Jacob D., Portland, Oreg. Car-coupling	521,262	June 12	906	214	67	1374
Gorden, Eugene M., Everett, Mass. Fountain-pen	525,895	Sept. 11	1013	228	68	1348
Gordon, Angus C., Rochester, N. Y., assignor to Gordon Railway Signal Company, Denver, Colo., and Rochester, N. Y. Railway time-signal	526,032	Sept. 18	1231	{ 281 285 }	68	1401
Gordon, Forrest E. (See Gordon, William J. and F. E.)						
Gordon, George, Chicago, Ill. Display-book	511,944	Jan. 2	366	85	66	69
Gordon, James L. (See Ball and Gordon.)						
Gordon, James R., Sudbury, assignor of one-half to A. W. Fraser, Ottawa, Canada. Ore-crusher	522,982	July 17	1391	{ 346 347 }	68	294
Gordon, Jo, et al. (See Keithly, Willie C., assignor.)						
Gordon, John W. (See Gordon, Thomas D., assignor.)						
Gordon, Lyman F. (See Wyman and Gordon.)						
Gordon, Minthorne T., Stapleton, assignor of one-half to C. Rudman, New York, N. Y. Burglar-alarm spring	517,547	Apr. 3	214	49	67	43
Gordon, Ora P., Hopkins Station, Mich. Device for securing barrel-heads in place	529,725	Nov. 27	2141	512	69	1085
Gordon Railway Signal Company. (See Gordon, Angus C., assignor.)						
Gordon, Thomas, South Bend, Wyo. Sickle-grinder	512,546	Jan. 9	1359	329	66	268
Gordon, Thomas D., Monmouth, Ill., assignor of one-half to J. W. Gordon, Trinidad, Colo. Bridle-bit	519,112	May 1	293	70	67	591
Gordon, Thomas J., assignor of two-thirds to D. W. Moore, Enreka Springs, Ark., and R. J. March, Lower Ridge, Ill. Clothes-pin	520,957	June 5	373	91	67	1265
Gordon, William, Boston, Mass. Turned shoe	523,634	July 24	2524	633	68	518
Gordon, William B., Cold Spring, N. Y., assignor of one-half to T. R. Morgan, Sr., Alliance, Ohio. Disappearing gun-carriage	523,570	July 24	2416	{ 605 606 }	68	497
Gordon, William J. and F. E., Philadelphia, Pa. Riding, amusement, and instructing device	525,596	Sept. 4	462	111	68	1238
Gordon, William W., Hazardville, and T. F. Pye, Hartford, Conn. Feed-alarm for carding-machines	525,013	Aug. 28	1803	440	68	1037
Gore, John K., Newark, N. J. Perforating-machine	516,199	Mar. 13	763	{ 178 179 }	66	1611
Gore, John K., Newark, N. J. Apparatus for sorting cards and compiling statistics	518,240	Apr. 17	1387	{ 348 349 }	67	287
Goreham, Herbert A., Decatur, Ill. Conduit electric railway	517,692	Apr. 3	468	113	67	90
Gorendo, F. G., et al. (See Zauger, Theodor, assignor.)						
Gorham, John A., Dayton, Ohio. Fifth-wheel for vehicles	512,695	Jan. 16	1605	385	66	330
Gorham, George E., Albany, N. Y. Invalid-bedstead	525,952	Sept. 11	1091	249	68	1362
Gorman, John H., East Greenwich, R. I. Stone-worker's gage-square	523,398	July 24	2114	531	68	444
Gormully & Jeffery Manufacturing Company. (See Jeffery, Thomas B., assignor.)						
Gormully, Richard P., Chicago, Ill. Velocipede-lantern	531,180	Dec. 18	1935	460	69	1598
Gorrell, John B., La Otto, Ind. Steam-actuated valve	519,706	May 15	1320	332	67	823
Goshen Folding Bed Company. (See Ru Ton, Hiram W., assignor.)						
Goshen Sweeper Company. (See Frazer, Alexander, assignor.)						
Goshen Sweeper Company. (See Ru Ton, Hiram W., assignor.)						
Goslin, Eli H., Washington, Ind. Wrench	513,916	Jan. 30	3629	894	66	819
Gosling, Henry J., Philadelphia, Pa., assignor to G. and H. Barnett. Machine for whetting cutting faces of chisels	526,571	Sept. 25	2174	519	68	1588
Goss, Joseph, and W. Varley, Fall River, Mass. Loom for weaving bordered fabrics	520,421	May 29	2555	626	67	1077
Goss Printing Press Company. (See Firm, Joseph L., assignor.)						
Goss Printing Press Company. (See Goss, Samuel G., assignor.)						
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Delivery apparatus for printing-presses	513,678	Jan. 30	3259	{ 800 801 }	66	747
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Machine for doubling webs of fabric longitudinally	517,693	Apr. 3	469	113	67	90
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Delivery apparatus for printing-presses	518,241	Apr. 17	1393	349	67	287
Goss, Samuel G., assignor to Goss Printing Press Company, Chicago, Ill. Delivery apparatus for printing-presses	518,242	Apr. 17	1395	{ 349 350 }	67	288
Gosselin, Joseph A., Drummondville, Canada. Card-cutting machine	527,420	Oct. 16	1242	300	69	255
Gotham, Amisa P., Newark, N. J. Heel	517,157	Mar. 27	2392	564	66	1949
Gotham, Amisa P., Newark, N. J. Heel	520,522	May 29	2754	666	67	1107
Gotham, Darwin B., Watertown, N. Y. Strainer	511,770	Jan. 2	43	11	66	11
Gotham, Darwin B., Watertown, N. Y. Strainer	530,586	Dec. 11	919	225	69	1399
Gothauer, John. (See Ryden, Swen, assignor.)						
Gott, Clarence P., Bayonne, N. J., assignor to himself, and J. S. Page, New York, N. Y. Registering mechanism	517,115	Mar. 27	2322	{ 546 547 }	66	1935
Göttsch, Friedrich A., Kiel, Germany. Calculating clock or dial	530,836	Dec. 11	1326	319	69	1472
Göttschalk, Charles, Fargo, N. D. Cash-receipts-recording apparatus	521,790	June 26	1850	441	67	1582
Gottwals, William O., Washington, D. C. Bill-file	527,277	Oct. 9	989	239	69	198
Gottwals, William O., Washington, D. C. Bill-file	527,278	Oct. 9	990	240	69	198

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Gottwals, William O., Ottawa, assignor to Eclipse Office Furniture Company of the City of Ottawa, Limited, Ontario, Canada. Letter and bill file.....	512,020	Jan. 2	485	115	66	93
Goudey, William E. C. (See Gooding and Goudey.)						
Gould, Aaron P., Canton, Ohio. Dental or surgical chair.....	529,902	Nov. 27	2436	585	69	1140
Gould, Aaron P., Canton, Ohio. Trolley-wire support and coupling.....	529,903	Nov. 27	2438	586	69	1141
Gould, Andrew J., Quincy, Cal. Water-wheel.....	518,599	Apr. 24	2009	499	67	414
Gould, Charles A., Bay Side, N. Y. Car-buffer.....	529,857	Nov. 27	2368	566	69	1127
Gould, Clement. (See West, William F., assignor.)						
Gould, Clement, Mamaroneck, N. Y. Naphtha-launch.....	523,635	July 24	2525	633	68	518
Gould, Clyde H., assignor to F. G. Kiest, Des Moines, Iowa. Combined cigar-tip cutter and advertising device.....	524,713	Aug. 21	1283	314	68	926
Gould Coupler Company. (See Bronner, Edmond D., assignor.)						
Gould Coupler Company. (See Richards, Willard F., assignor.)						
Gould, George F. (See Schumacher, Gustave W., assignor.)						
Gond, Isaac C., London, England. Case or holder for letters, &c.....	526,779	Oct. 2	185	43, 44	69	35
Gond, James, Jr., Oakland, Cal. Uniting metallic sheets.....	512,021	Jan. 2	486	116	66	93
Gond, James, Jr., Oakland, Cal. Machine for making sheet-metal tubes.....	519,182	May 1	436	107	67	622
Gond, James, Jr., assignor to Pacific Can Company, San Francisco, Cal. Can-heading machine.....	525,100	Aug. 28	1968	481	68	1065
Gond, John D., et al. (See Tisdale, Charles D., assignor.)						
Gond, Lucius D., Newark, N. J. Stove-lid, &c.....	516,373	Mar. 13	1052	250	66	1664
Goulding, William E., Oklahoma, Okla. Ter. Invalid-lifting apparatus.....	528,475	Oct. 30	3051	740	69	620
Gould's Son & Co., M. (See Bruen, William, assignor.)						
Gounelle, Charles. (See Delarue, Joseph E., assignor.)						
Gourd, Ernest W., et al. (See Gourd, Ernest W., assignor.)						
Gourd, Ernest W., Quincy, Mass. Circular-knitting machine.....	521,284	June 12	944	{ 223 224 }	67	1381
Gourd, Ernest W., assignor of two-thirds to J. R. and E. D. Gourd, Quincy, Mass. Cutting-off tool.....	519,183	May 1	438	107	67	622
Gourd, John R., et al. (See Gourd, Ernest W., assignor.)						
Gourley, John L., Tarentum, Pa. Steam-engine.....	520,757	May 29	3155	764	67	1181
Gousset, Cyprien, New York, N. Y. Chocolate-dipper.....	526,968	Oct. 2	491	120	69	92
Govin, Rafael R. (See Assorati, Antenor, assignor.)						
Gow, James W. (See Low and Gow.)						
Gow, John, assignor to Gas Meter Company, Limited, London, England. Coin-freed apparatus for the automatic sale and delivery of gas.....	524,061	Aug. 7	157	35	68	691
Gower, Eben N., Jr., Flowery Branch, Ga. Safe.....	512,022	Jan. 2	487	116	66	94
Gowing, Earle H., Reading, Mass. Clip for use in making joints in cast-iron pipe.....	517,611	Apr. 3	315	74	67	62
Grabau's Aluminium-Werke. (See Ackermann, Wilhelm, assignor.)						
Grabill, John D., Roanoke, Va. Truck.....	528,939	Nov. 13	781	163	69	809
Grable, Virgil L. (See Kelley, Thomas J., assignor.)						
Grable, W. B., et al. (See Farmer, John R., assignor.)						
Grabler, Peter, and J. J. Brown, Pittsburg, Pa. Square.....	527,968	Oct. 23	2165	521	69	445
Grabowski, Carl von, Eisleben, Germany. Process of and apparatus for purifying sulfate lyes.....	515,763	Mar. 6	61	14	66	1465
Grace, Thomas, Pittsburg, Pa. Water-closet seat.....	512,955	Jan. 16	2080	492	66	419
Grace, Thomas, assignor to Bailey Farrell Manufacturing Company, Pittsburg, Pa. Draining-testing apparatus.....	524,588	Aug. 14	1063	262	68	873
Gracia, Thomas. (See Hunter, John P., assignor.)						
Grady, Michael F., et al. (See Mullaney, Patrick J., assignor.)						
Graebert, Gustav J., assignor of one-half to J. Purdie, Detroit, Mich. Straightway-valve.	516,200	Mar. 13	765	179	66	1611
Graemiger, August, and W. T. Whitehead, Manchester, England. Apparatus for dyeing, &c.....	511,945	Jan. 2	367	86	66	70
Graf, Martin T., assignor of one-half to F. W. Barker, Buffalo, N. Y. Operating device for fare-registers.....	527,018	Oct. 2	568	138	69	107
Graff, Elie B., Baltimore, Md. Car-fender.....	529,260	Nov. 13	1325	318	69	906
Graff, Justin J. (See Labataille and Graff.)						
Graftstrom, Olivia A., New York, N. Y. Donche-bath.....	515,468	Feb. 27	2468	611	66	1360
Grafton, Alexander, Bedford, England. Crane.....	523,705	July 31	2666	661	68	559
Grafton, William S., Steubenville, Ohio, assignor to Wheeling Corrugating Company, Wheeling, W. Va. Machine for joining and rolling sheets of metal.....	517,116	Mar. 27	2324	547	66	1936
Grafton, William S., and R. R. Spears, assignors to Wheeling Corrugating Company, Wheeling, W. Va. Machine for joining and rolling sheets of metal.....	519,084	May 1	249	58, 59	67	583
Graham, Albert Y., Farmersville, Tex. Stovepipe or flue cleaner.....	515,314	Feb. 20	2213	547	66	1301
Graham, Andrew, Claremont, N. H. Bridge for stringed instruments.....	521,909	June 26	2054	494	67	1623
Graham, David F., Springfield, Ohio, and W. P. Allen, Chicago, Ill., assignors of one-third to O. S. Kelly, Springfield, Ohio. Contacting device for electric railways.....	519,328	May 8	711	{ 175 176 }	67	689
Graham, David F., Springfield, Ohio, and W. P. Allen, Chicago, Ill., assignors of one-third to O. S. Kelly, Springfield, Ohio. Conduit for electric railways.....	526,392	Sept. 25	1876	{ 445 446 }	68	1534
Graham, Edmund H., Biddeford, Me., assignor of one-half to L. Woodbury, Washington, D. C. Positive shuttle-motion for looms.....	527,783	Oct. 23	1825	439	69	384
Graham, Edmund H., Biddeford, Me., assignor of one-half to L. Woodbury, Washington, D. C. Positive shuttle-motion for looms.....	527,784	Oct. 23	1826	439	69	384
Graham, Edward M., Chicago, Ill. Pneumatic tire.....	511,771	Jan. 2	46	12	66	12
Graham, George H. (See O'Connor and Graham.)						
Graham, Gervaise. (See Gollings, Ellick H., assignor.)						
Graham, Howard, Chicopee, Mo. Center-revolving folding extension-table.....	528,250	Oct. 30	2667	642	69	552
Graham, James S., and J. Kane, Rochester, N. Y., assignors to H. Burke, Scranton, Pa., and J. M. Burke, Buffalo, N. Y. Woodworking-machine.....	522,754	July 10	1015	{ 251 252 }	68	207
Graham, Jesse, Morley, England. Smoke-consuming furnace.....	521,586	June 19	1496	{ 350 351 }	67	1499
Graham, Jesse, and H. Chapman, Morley, England. Miner's safety-lamp.....	517,520	Apr. 3	170	38	67	35
Graham, John, Albany, Mo. Automatic grain-weighing device.....	519,707	May 15	1381	333	67	823
Graham, Joseph M. (See Abernethy and Graham.)						
Graham, Julius. (See Marr and Graham.)						
Graham, Malcolm, et al. (See Mosher, Beardsley, and Moulton, assignors.)						
Graham, Robert O., Bloomington, Ill. Oil-pump.....	527,421	Oct. 16	1223	300	69	255
Graham, Robert O., Bloomington, Ill. Oil-pump.....	527,422	Oct. 16	1224	300	69	255
Graham, Samuel J., et al. (See Curry, James H., assignor.)						
Graham, Simon P., Detroit, Mich. Lawn-mower.....	519,860	May 15	1637	396	67	869
Graham, Simon P., assignor to H. C. Walker and J. G. Patterson, Detroit, Mich. Lawn-mower.....	525,388	Sept. 4	117	30, 31	68	1171
Graham, Thomas H., Toronto, Canada. Dental plate.....	521,930	June 26	2097	503	67	1630

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Graham, Warren D. (See Ridout, Chester G., E. M., and M. T., assignors.)						
Grahl, Carl B. and H. H., Council Bluffs, Iowa. Voting-booth	513,569	Jan. 30	3078	757	66	715
Grahl, H. H. (See Grahl, Carl B. and H. H.)						
Grand Montagne, Feuilien, Brussels, Belgium. Manufacturing artificial marbles	527,969	Oct. 23	2166	.....	69	446
Grand Rapids Brass Company. (See Tobey and Tower, assignors.)						
Grand Rapids Brass Company. (See Tower, Daniel W., assignor.)						
Grand Rapids Piano Case Company. (See Van Norman, Abe R., assignor.)						
Grand Rapids Seating Company. (See Bennett, George M., assignor.)						
Grand Rapids Vapor Stove Company. (See Childs, Charles H., assignor.)						
Grandy, Edward F. (See Crisp and Grandy.)						
Grandy, Edward F., Everett, Mass., assignor to Goodyear Shoe Machinery Company, Portland, Me. Lasting-machine	521,954	June 26	2151	{ 515 516 517 }	67	1640
Granger, Alford D., Molena, Ga. Mop or brush holder	519,329	May 8	714	176	67	690
Granger, Alvinza M., Grand Rapids, Mich. Hinge	517,857	Apr. 10	724	182	67	154
Granger, Frank D., New York, N. Y., assignor of one-half to H. A. Penrose, New London, Conn. Single trigger operating two locks alternately	524,140	Aug. 7	300	71	68	717
Granger, Frank D., New York, N. Y., assignor of one-half to H. A. Penrose, New London, Conn. Trigger mechanism for guns. (Reissue)	11,458	Dec. 11	1460	346	69	1496
Granges, John C. des, <i>et al.</i> (See Burton, Charles C., assignor.)						
Granges, John C. des, Pittsburg, Pa. Elevated railway	527,236	Oct. 9	912	220	69	185
Granite Filter Company. (See Emery, Avery L., assignor.)						
Granjon, Jean B., and C. Bellon, Lyons, France. Manufacture of hollow blocks	525,202	Aug. 28	2142	522	68	1095
Grannis, Hial S., Plantsville, assignor to Peck, Stow & Wilcox Company, Southington, Conn. Machine for forming penholder-tubes	526,526	Sept. 25	2106	502	68	1576
Grant, Albert E., Troy, N. Y. Stamping-machine	518,402	Apr. 17	1678	415	67	340
Grant, Albert L., Philadelphia, Pa. Horseshoe-pad	521,609	June 19	1537	360	67	1507
Grant Anti Friction Ball Company. (See Grant, Robert H., assignor.)						
Grant, Charles. (See Bartlett, John W., assignor.)						
Grant, Charles N., assignor of one-half to O. Brown, Haverhill, Mass. Roller-toboggan ...	513,570	Jan. 30	3079	{ 757 758 }	66	715
Grant, Charles N., assignor of one-half to O. Brown, Haverhill, Mass. Roller-toboggan ...	528,224	Oct. 30	2619	631	69	542
Grant, David, Chicago, Ill. Machine for peeling potatoes	521,495	June 19	1342	311	67	1473
Grant, Daniel H., and H. Miller, Raymore, Mo.; said Miller assignor to said Grant. Reversing-gear for engines	524,201	Aug. 7	401	95	68	734
Grant, Edward, Kankakee, Ill. Machine for making founders' cores	512,289	Jan. 9	928	{ 225 226 }	66	188
Grant, Edward, Kankakee, Ill. Machine for making cores	513,998	Feb. 6	40	9	66	862
Grant, Edward, Kankakee, Ill. Founder's molding-machine	516,267	Mar. 13	875	205	66	1633
Grant, Edward R. (See Ofeldt, August W., assignor.)						
Grant, George B., Lexington, Mass. Machine for generating beveled gear-teeth	512,189	Jan. 2	763	186	66	145
Grant, George B., Lexington, Mass. Bevel-gear	519,572	May 8	1154	278	67	769
Grant, James W., Bridgeport, Conn. Coin-holder	530,685	Dec. 11	1088	264	69	1428
Grant, John B., <i>et al.</i> (See Grant, Joseph A., assignor.)						
Grant, Joseph A., Dyer Brook, assignor of two-thirds to J. B. and M. R. Grant, Merrill Plantation, Me. Churn	514,358	Feb. 6	644	165	66	974
Grant, Millen R., <i>et al.</i> (See Grant, Joseph A., assignor.)						
Grant, Robert A., assignor of three-fourths to A. F. Borchardt, C. A. Hall, and J. C. Schott, Providence, R. I. Electric-railway trolley	526,897	Oct. 2	383	95	69	71
Grant, Robert H., assignor to Grant Anti Friction Ball Company, Fitchburg, Mass. Automatic turning-machine	517,004	Mar. 20	2106	498	66	1878
Grant, Robert H., assignor to Grant Anti Friction Ball Company, Fitchburg, Mass. Grinding-machine	520,019	May 15	1879	{ 459 460 }	67	915
Grant, Sidney A., Springfield, assignor to National Cycle Company, Fitchburg, Mass. Bicycle	520,396	May 22	2542	614	67	1054
Grant, William W., Brooklyn, N. Y. Vapor gas-engine	514,359	Feb. 6	645	{ 165 166 }	66	974
Grant, William W., Brooklyn, N. Y. Gas-engine	525,651	Sept. 4	546	{ 132 133 }	68	1252
Grasemann, Otto, Gera, Germany. Surgical table	517,801	Apr. 3	642	{ 160 161 }	67	125
Grasselli Chemical Company. (See Fraach, Hans A., assignor.)						
Grassl, August O., Syracuse, N. Y. Hot-water heater	522,755	July 10	1021	253	68	208
Granel, Edwin S., Cleveland, Ohio. Fan	527,423	Oct. 16	1225	301	69	255
Grauer, Edgar, New York, N. Y. Bicycle-tire	518,691	Apr. 24	2168	543	67	442
Grauert, Edgar, New York, N. Y. Exercising apparatus	522,891	July 10	1211	301	68	245
Grauert, Edgar, New York, N. Y. Bicycle-tire	529,261	Nov. 13	1326	319	69	906
Graumlich, Solomon M., Duvall, Ohio. Extension-ladder and truck	512,190	Jan. 2	767	187	66	146
Graus, Frank. (See Witz, Konrad, assignor.)						
Granten, William A., Hartford, Conn. Rail-bond	527,785	Oct. 23	1827	439	69	385
Grauvogl, Joseph, Plain, Wis. Car-coupling	516,680	Mar. 20	1579	376	66	1780
Graves, Benjamin C., Mount Vernon, N. Y. Disinfecting apparatus	515,210	Feb. 20	2024	505	66	1265
Graves, Calvin V. (See Rogers, James H., assignor.)						
Graves, Calvin V. (See Welch, Henry J., assignor.)						
Graves, Cashious M., Eddyville, Ky. Hub-attaching device	514,595	Feb. 13	1045	262	66	1067
Graves, George H. (See Hall and Graves.)						
Graves, Henry C., executor. (See Bell and Stewart.)						
Graves, John. (See Moehn and Graves.)						
Graves, John, Brooklyn, assignor to Dean & Graves, New York, N. Y. Portable heater ...	516,010	Mar. 6	447	103	66	1535
Graves, John, assignor of two-thirds to G. Demetz and L. Monjo, Brooklyn, N. Y. Sheet-metal mantle	524,714	Aug. 21	1224	{ 314 315 }	68	926
Graves, Lorenzo S., Rochester, N. Y. Elevator safety device	520,160	May 22	2152	524	67	979
Graves, William J., Gainesville, Tex. Pendulum-scale	518,545	Apr. 17	1920	{ 474 475 }	67	382
Gray, Albert L., Tarkio, Mo. Syringe	527,681	Oct. 16	1654	398	69	335
Gray, Alfred E., Uxbridge, Mass. Dental mouth-mirror	524,419	Aug. 14	799	196	68	824
Gray, Carl E., <i>et al.</i> (See Kellogg, William M., assignor.)						
Gray, Charles J., Oshkosh, Wis. Pneumatic buffer-truck for railway-trains	518,449	Apr. 17	1766	{ 437 438 }	67	356
Gray, Douglas W., Painted Post, N. Y. Device for packing tobacco-bands in cases or casks.	529,069	Nov. 13	990	235	69	845
Gray, Edward F., Bethlehem, Pa. Reverberatory and regenerative furnace	518,523	Apr. 17	1883	467	67	376
Gray, Elisha, Highland Park, Ill. Telautograph	522,892	July 10	1214	{ 302 303 }	68	245
Gray, Elisha, Highland Park, Ill. Telautograph	522,893	July 10	1221	{ 303 304 }	68	247

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Gray, Frank, Chicago, Ill. Valve for automatic fire-extinguishers	513,571	Jan. 30	3081	758	66	715
Gray, Frank S., Trenton, Ky. Gate	521,880	June 26	1990 { 480 481		67	1610
Gray, Henry F., assignor to W. P. Harrison, Columbus, Ohio. Ironing-machine	528,091	Oct. 23	2384	575	69	485
Gray, James. (See Johnston and Gray.)						
Gray, James, Chicago, Ill. Rotary measure	530,686	Dec. 11	1029	264	69	1425
Gray, James A., and J. H. Murch, San Francisco, Cal., assignors to R. D. Hume, Gold Beach, Oreg. Blank-feeding device	513,776	Jan. 30	3413	842	66	775
Gray, John H., Elwood, Nebr., assignor of one-half to R. N. Bouck, Jackson, Mich. Metallic hub	518,498	Apr. 17	1842	456	67	368
Gray, Joshua W., Albany, N. Y. Guard for bolts of spring-locks	525,074	Aug. 28	1921	470	68	1058
Gray, Joshua W., Chicago, Ill. Pneumatic door-controller	528,909	Nov. 6	720	169	69	778
Gray, Lawrence B., Boston, Mass. Insulator	514,221	Feb. 6	427	103	66	932
Gray, Lawrence B., Boston, Mass. Holder for phonograph-cylinders	529,904	Nov. 27	2439	566	69	1141
Gray, Nellie R., Elyria, Ohio. Dress-hook	512,696	Jan. 16	1606	385	66	330
Gray, Peter, Cambridge, Mass. Signal-lantern	521,162	June 12	729	172	67	1342
Gray, Richard, Bloomington, Ill. Metallic column or pile	520,047	May 22	1932	474	67	941
Gray, Robert H. (See Burrill, Lemuel B., assignor.)						
Gray, Robert H., Lexington, Ky. Baling-press	525,203	Aug. 28	2143	523	68	1065
Gray, Thomas L., Hinsleytown, assignor of one-half to T. P. Allen, Elmo, Ky. Combined planter and tobacco-hiller	522,367	July 3	325	84	68	64
Gray, William B., and H. Shepley, Halifax, Pa. Railway signal and system	520,161	May 22	2153 { 524 525		67	980
Gray, William B., and D. F. Bowen, Denver, Colo. Ticket-printing machine	521,438	June 12	1219 { 288 289		67	1433
Gray, William D., Milwaukee, Wis., assignor to Edward P. Allis Company, of Wisconsin. Flour-bolt	514,317	Feb. 6	589 { 147 148		66	963
Gray, William S., New York, N. Y. Sprinkler-head for automatic fire-extinguishing apparatus	514,220	Feb. 6	425	103	66	932
Graybill, Joseph F., York, Pa. Alarm-lock for doors, &c	527,527	Oct. 16	1404	342	69	289
Graydon, Alexander J., Indianapolis, Ind. Electric cigar-lighter	514,651	Feb. 13	1125	281	66	1083
Grayson, William. (See Crecelius, Louis J., assignor.)						
Grayson, William, and L. J. Crecelius, St. Louis, Mo. Wheel	514,360	Feb. 6	653	166	66	976
Greaves, William, deceased, (C. L. Sturtevant, administrator,) and J. Wardle, said Sturtevant assignor to Platt Brothers & Co., Limited, Oldham, England. Machinery for operating on conjoined staples for carding-engines	515,315	Feb. 20	2214 { 548 549		66	1301
Grebe, Christian, assignor to S. B. Rowley, Philadelphia, Pa. Apparatus for molding glassware	519,113	May 1	296	70	67	592
Greble, Harvey K., assignor of one-half to H. G. Wallace, Hamilton, Ohio. Book-cover	521,539	June 19	1414	327	67	1485
Gredt, Paul, Esch, Belgium. Recovering iodids, chlorids, or other salts from blast-furnace gases	529,070	Nov. 13	991	236	69	846
Greeley, Lewis A., Morenci, Mich. Implement for weaving filler-wires in wire fences	519,154	May 1	388	94	67	612
Green, Albert G., Red Cloud, Nebr. Grain carrier and regulator for thrashing-machines	522,011	June 26	2261	542	67	1659
Green, Albert J., assignor to Stoddard Manufacturing Company, Dayton, Ohio. Die for shaping metal press-wheels	518,668	Apr. 24	2135	534	67	435
Green, Albert J., assignor to Stoddard Manufacturing Company, Dayton, Ohio. Press-wheel for grain-drills	518,669	Apr. 24	2136	534	67	435
Green, Alem J. (See McCloskey, William, assignor.)						
Green, Alfred, assignor of one-half to W. Rosbrough, Rochester, N. Y. Electric connection for railway-rails	513,777	Jan. 30	3414	842	66	776
Green, Alfred F., <i>et al.</i> (See Herrington, Ephraim, assignor.)						
Green, Alfred F., <i>et al.</i> (See Herrington and Butler, assignors.)						
Green, Arthur G., assignor to Brooke, Simpson & Spiller, Limited, London, England. Red azo dye	515,764	Mar. 6	63		66	1465
Green, Bernard R., Washington, D. C. Book-stack for libraries. (Reissue)	11,401	Jan. 30	3715	915	66	837
Green, Bernard R., Washington, D. C. Book-shelf and its support	516,734	Mar. 20	1677	397	66	1796
Green, Bruce, London, England. Coin-operated sight-testing apparatus	525,652	Sept. 4	555 { 133 134 135		68	1254
Green, Casper T., Dublin, assignor to A. F. Huddleston, Randolph county, Ind. Glass receptacle	528,631	Nov. 6	186	45	69	680
Green, Cassius M. (See Green, Henry L. and C. M.)						
Green, Charles H., <i>et al.</i> (See Ball, Charles A., assignor.)						
Green, David C., Milwaukee, Wis. Oven	514,456	Feb. 13	792 { 202 203 204		66	1021
Green, Edward, Wakefield, England. Triple scraper employed on tubes of fuel-economizers	513,917	Jan. 30	3630 { 694 695		66	819
Green, Frank A. (See Chaffee, Hoffman, and Green.)						
Green, Hannah A., Womer, Kans. Kitchen-cabinet	513,010	Jan. 16	2164	515	66	435
Green, Henry J., Brooklyn, N. Y. Eyeglass-suspender	527,147	Oct. 9	772	188	69	158
Green, Henry L. and C. M., near West Mansfield, Ohio. Halter	512,290	Jan. 9	929	226	66	188
Green, Ira L., assignor of five-sixths to G. M. Fox, W. Reynolds, C. C. Shadle, Kittanning, M. D. Wayman, Ford City, and J. M. Patterson, Sharpsburg, Pa. Electrical railway-signal	516,596	Mar. 13	1424 { 338 339		66	1733
Green, Ira L., assignor of five-sixths to G. M. Fox, W. Reynolds, C. C. Shadle, Kittanning, M. D. Wayman, Ford City, and J. M. Patterson, Sharpsburg, Pa. Semaphore-signal	516,597	Mar. 13	1427	339	66	1734
Green, Ira L., assignor of five-sixths to G. M. Fox, W. Reynolds, C. C. Shadle, Kittanning, M. D. Wayman, Ford City, and J. M. Patterson, Sharpsburg, Pa. Electrical railway-signal	516,598	Mar. 13	1430	340	66	1735
Green, James E., St. Louis, Mo. Steam-boiler	517,745	Apr. 3	556 { 135 136		67	108
Green, James R., <i>et al.</i> (See Rust, Robert S., assignor.)						
Green, John. (See Abbott and Green.)						
Green, John, Renovo, Pa. Combined pipe wrench and cutter	514,000	Feb. 6	43	10	66	862
Green, John, Renovo, Pa. Ironing-table	520,183	May 22	2190	533	67	937
Green, John, Renovo, Pa. Support for game-boards	527,279	Oct. 9	992	240	69	198
Green, John C. (See Drake and Green.)						
Green, John D., Toledo, Ohio. Railway frog, switch, and guard-rail block	526,442	Sept. 25	1981	472	68	1553
Green, John J., Boonton, N. J. Miter-box	522,591	July 10	714 { 182 183		68	156
Green, John J., Boonton, N. J., assignor to Universal Electric Company, New York, N. Y. Contact-shoe for electric locomotives	522,709	July 10	907	224	68	190
Green, John J., Boonton, N. J., assignor to Universal Electric Company of the City of New York, New York, N. Y. Contact-bar for electric locomotives	522,710	July 10	909 { 224 225		68	191

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Green, John J., Boonton, N. J., assignor to Universal Electric Company of the City of New York. Electric-railway supply system.	530,482	Dec. 4	720	177	69	1346
Green, John J., Boonton, N. J., assignor to Conduit Construction Company, New York, N. Y. Supply system for electric railways.	522,711	July 10	911	225	68	191
Green, John J., assignor to Loando Hard Rubber Company, Boonton, N. J. Trolley-wire hanger.	526,704	Oct. 2	59	15	69	14
Green, John R., Woodstock, Ala. Steel combination railway-tie.	527,682	Oct. 16	1655	399	69	335
Green, Joseph J., Mulberry Grove, Ga. Cotton-chopper.	528,159	Oct. 30	2501	605	69	521
Green, Joseph W., Jr. (See Moore, George C., assignor.)						
Green, Lewis H., et al. (See Roberts, Henry P., assignor.)						
Green, Roselle T., Worcester, Mass. Adjustable curtain-bracket.	526,920	Oct. 2	424	105	69	79
Green, Squire, Stretford, assignor to H. E. Wollmer, Manchester, England. Means for attaching handles to heads of brooms.	520,984	June 5	421	101	67	1273
Green, Stephen C. (See Mullin and Green.)						
Green, Thomas, Philadelphia, Pa. Rotary blower.	515,212	Feb. 20	2026	505	66	1266
Green, Thomas, Sioux City, Iowa. Brick-kiln.	514,709	Feb. 13	1227	305	66	1103
Green, Thomas, Sioux City, Iowa, assignor of one-half to Sioux City Brick and Tile Company. Continuous brick-kiln.	513,999	Feb. 6	41	9, 10	66	862
Green, William A., assignor of thirteen-twentieths to B. G. D. Unger, G. H. Whitehead, N. Jahn, Trenton, and T. H. Clark, Ewing, N. J. Street-sweeper.	525,075	Aug. 28	1922	471	68	1058
Green, William E., Tiffin, assignor of two-thirds to J. G. Walter and H. Day, Maple Grove, Ohio. Wire-stretcher.	529,643	Nov. 20	2011	481	69	1052
Greenawalt, Peter C., Reading, Pa. Sad-iron.	528,366	Oct. 30	2862	693	69	586
Greene, Charles. (See Olsen, Ole, assignor.)						
Greene, Charles M. (See Nolon, Edward, assignor.)						
Greene, David H., Charleston, S. C. Package for soap powder, &c.	512,551	Jan. 9	1412	340	66	278
Greene, George A., Rogers, Tex. Refrigerator.	526,225	Sept. 18	1574	369	68	1462
Greene, George F., Detroit, Mich. Water-closet bowl and seat.	522,010	June 26	2260	541	67	1659
Greene, Henry S., Lawrence, and T. H. Greene, Lowell, Mass. Cloth-napping machine.	522,560	July 3	655	166 167 168	68	128
Greene, Henry W., North Dana, assignor of one-half to J. F. Barnes, Petersham, Mass. Glass door-plate.	519,256	May 1	571	138	67	648
Greene & Knox Manufacturing Company. (See King, Thomas, assignor.)						
Greene, John R., et al. (See Hutchinson, Calvin A., assignor.)						
Greene, John W., assignor of one-half to T. D. Brown, Canandaigua, N. Y. Single-piece sheet-metal spout.	530,587	Dec. 11	921	225	69	1390
Greene, Samuel F., and S. W. Law, Philadelphia, Pa. Window-shutter.	530,837	Dec. 11	1328	319	69	1473
Greene, Thomas D. (See Abbott and Greene.)						
Greene, Thomas H. (See Greene, Henry S. and T. H.)						
Greene, William A., Ocean Grove, assignor of one-half to E. R. Cahoon, Newark, N. J. Stove or range for burning bituminous coal.	529,376	Nov. 20	1533	367	69	966
Greenfield Automatic Fastener Company. (See Greenfield, Edwin T., assignor.)						
Greenfield, Edwin T., New York, N. Y. Metal-covered elbow.	517,276	Mar. 27	2535	606	66	1986
Greenfield, Edwin T., New York, N. Y. Electric motor.	517,658	Apr. 10	725	182	67	154
Greenfield, Edwin T., assignor to Greenfield Automatic Fastener Company, New York, N. Y. Book-stapling machine.	520,734	May 29	3112	754	67	1174
Greenfield, Edwin T., assignor to Greenfield Automatic Fastener Company, New York, N. Y. Stapling-machine.	520,735	May 29	3116	754 755	67	1174
Greenfield, Robert S., et al. (See Shank, Charles A., assignor.)						
Greengard, Morris D., St. Louis, Mo. Regulating-socket for incandescent lamps.	516,484	Mar. 13	1233	295	66	1698
Greenleaf, Abner. (See Dalsheimer and Greenleaf.)						
Greenshields, Walter, Auckland, New Zealand. Shoulder-brace.	525,597	Sept. 4	464	111	68	1238
Greenstein, Adolph. (See Dinsmore, Robert, assignor.)						
Greenwood, Arthur, Leeds, England. Coal-cutting machine.	521,263	June 12	907	214	67	1374
Greenwood, Edmund R., et al. (See Winters, John W., assignor.)						
Greenwood, Hugh M., Brooklyn, N. Y. Overhead switch for trolley-wires.	525,598	Sept. 4	465	112	68	1238
Greenwood, James, assignor to Caustic Soda and Chlorine Syndicate, Limited, London, England. Electrode for use in the manufacture of chlorin and caustic soda.	514,318	Feb. 6	592	149	66	904
Greenwood, Stephen D. (See Moritz and Greenwood.)						
Greenwood, William H. (See Herrington, Ephraim, assignor.)						
Greer, Arthur, Monticau, Mo. Feed-trough.	528,871	Nov. 6	643	153	69	764
Greer, Charles I., assignor of one-half to C. B. Peirce, Washington, D. C. Closed conduit for electric railways.	522,894	July 10	1225	304 305	68	248
Greer, Charles M. (See Lare and Greer.)						
Greer, Howard, Chicago, Ill. Railway-track brace.	527,489	Oct. 16	1337	326	69	278
Greer, William H. C., Sherman, Tex. Suspension-bridge.	513,389	Jan. 23	2748	670	66	619
Greger, Thomas P., Philadelphia, Pa. Manhole-cover.	525,101	Aug. 28	1970	482	68	1065
Gregg, Andrew F., assignor of one-half to E. S. Havens, Cincinnati, Ohio. Hot-box indicator and oiler.	526,921	Oct. 2	425	105	69	79
Gregory, Eugene, Ann Arbor, Mich. Dice-box.	528,428	Oct. 30	2970	718	69	605
Gregory, Fred L., Niagara Falls, N. Y. Electric clock.	511,946	Jan. 2	371	87	66	70
Gregory, Fred L., Chicago, Ill. Electric clock striking mechanism.	520,184	May 22	2191	534	67	987
Gregory, Fred L., Chicago, Ill. Electric clock.	525,704	Sept. 11	665	156	68	1286
Gregory, George W. (See Noyes, Bernice J., assignor.)						
Gregory, John, Newark, N. J. Making phosphoric fertilizers.	515,708	Feb. 27	2852		66	1435
Gregory, John, Marion, Ohio. Grain-drier.	516,704	Mar. 20	1615	385	66	1786
Gregory, John H., assignor of one-half to J. Newman, Ione, Cal. Wire-stretcher.	513,778	Jan. 30	3415	842	66	776
Gregory, Nathan B., assignor of one-half to E. B. Hobson and G. E. James, Joplin, Mo. Combined latch and lock.	519,284	May 1	619	150	67	657
Gregson, Harold, Detroit, Mich. Liquid-measure.	515,211	Feb. 20	2025	505	66	1265
Greider, Allen L. (See Jones, Amos, assignor.)						
Greiner, John E., Baltimore, Md. Construction of bridges, roofs, &c.	528,940	Nov. 13	783	183	69	809
Greiner, John F., assignor of one-half to T. B. Adams, McKenzie, Tenn. Plow-fender.	513,918	Jan. 30	3631	895	66	819
Grenier, Jane B. A., Woonsocket, R. I. Wheelbarrow.	528,251	Oct. 30	2668	643	69	552
Gremmels, Frederick W., assignor of one-half to A. Hamilton, Kansas City, Mo. Grip-slot closer.	522,636	July 24	2526	634	68	518
Grenet, Emile, Paris, France. Wheel-tire.	516,201	Mar. 13	766	179	66	1612
Grenfell, Hubert H., London, England. Sighting and indicating apparatus for ordnance.	517,746	Apr. 3	557	136	67	108
Grennell, Henry I., Ashland, Wis. Heating-drum.	525,696	Sept. 11	1014	229	68	1348
Gresham, James, Manchester, assignor to Vacuum Brake Company, Limited, London, England. Vacuum automatic brake apparatus.	516,863	Mar. 20	1873	443	66	1834
Gressle, Theophilus E., Indianapolis, Ind., assignor of nine-twentieths to F. Hittle, Baltimore, Md. Trolley-wire finder.	521,311	June 12	995	234	67	1391

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Greve, Bernhard, Cologno, Germany. Siphon.....	518,064	Apr. 10	1086	274	67	214
Gridley, Henry H., Springfield, Mass., assignor to Stanley Works, New Britain, Conn. Hinge.....	513,042	Jan. 16	2207	528	66	443
Gridley, Wilmer D., Brooklyn, N. Y. Bracket.....	520,564	May 29	2827	682	67	1122
Grieb, David Y., Suburba, Tenn. Hand-truck.....	530,991	Dec. 18	1592	378	69	1534
Grieneisen, Louis, Philadelphia, Pa. Ice-velocipede.....	521,496	June 19	1343	312	67	1473
Grier, G. E., et al. (See Bostwick, Charles E., assignor.)						
Grier, George S., Milford, Del. Combined sleeve-section and cuff.....	520,308	May 22	2396	582	67	1025
Grier, James W., et al. (See Bostwick, Charles E., assignor.)						
Grier, John C., et al. (See Bostwick, Charles E., assignor.)						
Grier, Matthew J. (See Broadwell, Edward C., assignor.)						
Grier, Matthew J., assignor of one-fourth to J. W. Coulston, Philadelphia, Pa. Slack-adjusting device for brake mechanism.....	518,919	Apr. 24	2561	633	67	513
Griesemer, Adam, assignor of one-half to W. G. Rippey and J. W. Luckey, Pueblo, Colo. Bracket or rest for work-benches or other purposes.....	525,014	Aug. 28	1805	440	68	1037
Griesemer, Edward K., and J. H. Manger, Reading, Pa. Harness attachment.....	514,825	Feb. 13	1412	356	66	1138
Grieser, Henry, assignor of two-thirds to C. L. Hood and C. B. Tomlinson, St. Louis, Mo. Street-car fender.....	529,726	Nov. 27	2142	513	69	1085
Griffen, Arthur B. (See Clarke and Griffen.)						
Griffin, Edwin C. (See Griffin, James K. and E. C.)						
Griffin, Edwin C., Newton, Mass. Roll for pulverizing-mills.....	520,958	June 5	374	91	67	1265
Griffin, Ellsworth, assignor of one-half to W. W. Pollock, Milwaukee, Wis. Writing-machine.....	518,499	Apr. 17	1843	457	67	369
Griffin, James F. (See Staats, William H., assignor.)						
Griffin, James K., Brooklyn, N. Y., and E. C. Griffin, Newton, Mass. Pulverizing-mill.....	515,673	Feb. 27	2789	695	66	1424
Griffin, Jesse H. (See Beavor, Francis M., assignor.)						
Griffin, John P., St. Louis, Mo. Excavator.....	526,226	Sept. 18	1575	370	68	1463
Griffin, Martin L., Holyoke, Mass. Making calcium bisulfite lignor.....	526,076	Sept. 18	1313	304	68	1415
Griffin, Michael J., Holyoke, Mass. Safety-pin.....	515,214	Feb. 20	2029	506	66	1266
Griffin, Richard F. (See Maxfield, Griffin, and Speer.)						
Griffith, David C. B., London, England. Toy track or course.....	530,767	Dec. 11	1223	296	69	1452
Griffith, Frederick B., Buffalo, N. Y. Crane.....	524,780	Aug. 21	1390	$\left\{ \begin{smallmatrix} 338 \\ 339 \\ 340 \end{smallmatrix} \right\}$	63	946
Griffith, J. K. (See Slattery, John, assignor.)						
Griffith, Jacob K., Latrobe, Pa. Sole for slippers or shoes.....	527,280	Oct. 9	993	$\left\{ \begin{smallmatrix} 240 \\ 241 \end{smallmatrix} \right\}$	60	198
Griffith, John L., et al. (See Rawles, John, assignor.)						
Griffith, Lafayette, et al. (See Walker, William E., assignor.)						
Griffith, Stephen L., Chardon, Ohio. Staple-forceps.....	512,248	Jan. 2	856	207	66	162
Griffith, Thomas A., Kansas City, Mo. Car coupling.....	515,215	Feb. 20	2030	507	66	1266
Griffith, Thomas R. (See Dow and Griffith.)						
Griffiths, David F., New York, N. Y. Packing-case.....	517,407	Mar. 27	2839	664	66	2036
Griffiths, Edward J., and J. G. Miller, Nekimi, Wis.; said Griffiths assignor to said Miller. Check-row corn-planter.....	512,697	Jan. 16	1607	386	66	331
Griffiths, Griffith W., Tecumseh, Mich. Car-axle box.....	518,524	Apr. 17	1886	467	67	376
Griffiths, Hannah. (See Putnam, Wendell P., assignor.)						
Griffiths, William. (See James and Griffiths.)						
Griffiths, William, and H. F. Woodgate, London, England. Recoil-operated gun.....	512,437	Jan. 9	1183	$\left\{ \begin{smallmatrix} 287 \\ 288 \end{smallmatrix} \right\}$	66	236
Griffiths, William A. (See Walton and Griffiths.)						
Griffiths, William U., and H. Niedermayer, Philadelphia, Pa. Air-compressing device.....	530,335	Dec. 4	457	114	69	1297
Griffiths, William U., and H. Niedermayer, Philadelphia, Pa. Air-compressing device.....	530,336	Dec. 4	459	115	69	1297
Griggs, Wilfred E., Waterbury, Conn. Machine for making perforated sheet-music.....	527,970	Oct. 23	2168	521	69	446
Grime, John, Minneapolis, Minn. Valve gear.....	512,956	Jan. 16	2081	493	66	419
Grimland, Yeren, and J. J. Ringness, Norse, Tex. Cotton-stalk-breaking machine.....	522,159	June 26	2503	601	67	1705
Grimm, Gerhardt E., Camden, N. J. Paper bobbin.....	512,698	Jan. 16	1608	386	66	331
Grimm, Gerhardt E., Camden, N. J. Paper spool or bobbin.....	513,317	Jan. 23	2637	639	66	598
Grimm, Gerhardt E., Camden, N. J. Paper spool or bobbin.....	513,318	Jan. 23	2638	640	66	598
Grindrod, John T., Heswall, assignor of one-half to J. Holt, Wanstead Park, England. Heating apparatus.....	526,780	Oct. 2	187	44	69	36
Grinnell, Amos L., Campbell, Iowa. Machine for sawing logs.....	530,942	Dec. 18	1504	357	69	1520
Griscom, William, Jr., Bound Brook, N. J., assignor to Standard Paint Company, New York, N. Y. Vulcanizable compound.....	529,727	Nov. 27	2143	.....	69	1086
Griscom, William, Jr., Bound Brook, N. J., assignor to Standard Paint Company, New York, N. Y. Vulcanizable compound.....	529,728	Nov. 27	2145	.....	69	1086
Griscom, William, Jr., Bound Brook, N. J., assignor to Standard Paint Company, New York, N. Y. Painting compound.....	529,729	Nov. 27	2147	.....	69	1086
Griscom, William, Jr., Bound Brook, N. J., assignor to Standard Paint Company, New York, N. Y. Hard vulcanized compound.....	529,730	Nov. 27	2149	.....	69	1086
Griscom, William, Jr., Bound Brook, N. J., assignor to Standard Paint Company, New York, N. Y. Compounding vulcanizable compounds and vulcanizing and applying the same.....	529,905	Nov. 27	2440	.....	69	1141
Griscom, William W., Haverford, Pa. Peroxidizing lead.....	515,333	Feb. 27	2251	.....	66	1320
Griscom, William W., Haverford, Pa. Machine for making storage-battery grids of forced lead.....	521,791	June 26	1851	441	67	1583
Grisham, Wiley M., assignor of one-half to C. H. Townsend and J. E. Eddings, Winchester, Ill. Fence.....	524,464	Aug. 14	868	214	68	837
Grissinger, Theodore, Mechanicsburg, Pa. Telephone-transmitter.....	523,276	July 17	1909	481	68	390
Griswold, Frank B., Troy, N. Y. Wire-bending machine.....	519,812	May 15	1546	378	67	854
Griswold, George M., New Haven, Conn. Making knives.....	526,033	Sept. 18	1236	285	68	1402
Griswold, George W., Manomet, Mass. Duster.....	513,390	Jan. 23	2750	670	66	619
Griswold, Marius E., Chicago, Ill. Mud-guard for bicycles.....	515,213	Feb. 20	2028	506	66	1266
Griswold, Matthew. (See Clarke, Walter H., assignor.)						
Griswold, Matthew. (See Harvey and Shields, assignors.)						
Griswold, Milton O., Rock Island, Ill. Coin-controlled game apparatus.....	511,947	Jan. 2	375	87	66	71
Groat, Louis W., Hudson, N. Y. Knitted shirt.....	527,551	Oct. 16	1441	350	69	296
Grodor, George. (See Bourque, Edouard A., assignor.)						
Groebli, Joseph A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Fabric-moving mechanism for embroidery-machines.....	528,632	Nov. 6	186	$\left\{ \begin{smallmatrix} 46 \\ 47 \\ 48 \\ 49 \\ 50 \end{smallmatrix} \right\}$	69	680
Groff, Diller B. (See Groff, Samuel A., assignor.)						
Groff, Samuel A., assignor of one-half to D. B. Groff, Washington, D. C. Letter-box.....	519,427	May 8	890	215	67	723

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Grogan, James, Prescott, Ariz. Ter. Boiler-furnace	526,485	Sept. 25	2048	487	68	1565
Grogan, John R., Quitman, Tex. Andiron	525,204	Aug. 28	2144	523	68	1096
Groom, Vincent, Wolverhampton, England. Dark lantern	523,521	July 24	2348	589	68	485
Gruos, Frederic, Naples, N. Y. Broiler or toaster	513,103	Jan. 23	2288	554	66	528
Grüper, Albin, Dusseldorf, Germany. Microphone	513,181	Jan. 23	2417	583	66	554
Gros, Christian, Delphi, and J. F. Thomas, Camden, Ind. Fence-post	521,110	June 5	639	150	67	1312
Groschlose, John C., Bangersville, Ind. Fence	513,104	Jan. 23	2289	554	66	529
Gross, Albert H., <i>et al.</i> (See Howe, Henry A., assignor.)						
Gross, Augustus, Sydney, New South Wales. Preventing the creeping of rails on railway-tracks	512,817	Jan. 16	1836	435	66	374
Gross, David G., assignor of one-half to J. R. Eden, Berlin, Canada. Car-coupling	531,375	Dec. 25	2296	548	69	1650
Gross, Eli. (See Able and Gross.)						
Gross, J. P., <i>et al.</i> (See Harvey, Isaac, assignor.)						
Gross, Joseph E. (See Huether and Gross.)						
Gross, Wilhelm, Werden, and C. Pohlitz, assignors to Firm of F. Krupp, Essen, Germany. Breech-loading ordnance	523,834	July 31	2896	{ 721 722 }	{ 68 68 }	{ 602 349 }
Grosscup, Mamas G., Chicago, Ill. Hay-carrier track and its connections	523,145	July 17	1683	421	68	349
Grossé, Ernst F., Gross-Kraussnigk, Germany. Trap-door stair	527,852	Oct. 23	1949	{ 466 467 }	{ 69 69 }	{ 405 405 }
Grosvenor & Co., J. M. (See Morstadt, Karl, assignor.)						
Groswith, Henry. (See Alexander and Groswith.)						
Grosz, Martin J., Emporia, Kans. Mail-crane	529,071	Nov. 13	992	{ 236 237 }	{ 69 69 }	{ 846 846 }
Grote, Ferdinand, Evansville, Ind. Sectional boiler	515,584	Feb. 27	2651	658	66	1396
Grote, Ludwig, Landberg-on-the-Lech, Germany. Artificial stone	521,264	June 12	908		67	1375
Grout, John C., Detroit, Mich. Bottle-stopper	521,649	June 19	1598	374	67	1519
Grove, Conrad S., Philadelphia, Pa. Die-throwing device	518,316	Apr. 17	1515	379	67	309
Grove, George W., assignor to National Cash Register Company, Dayton, Ohio. Cash-register	514,652	Feb. 13	1127	{ 281 282 }	{ 66 66 }	{ 1083 1083 }
Grove, Jacob R., assignor to W. E. Peck, trustee, New York, N. Y. Incandescent lamp	530,838	Dec. 11	1330	319	69	1473
Grover, Albert D., Malden, Mass. Bridge for banjos	530,483	Dec. 4	724	177	69	1347
Grover, Alva J., Omaha, Nebr. Self-recording canal, sewer, and rain gage or meter	530,337	Dec. 4	460	{ 115 116 }	{ 69 69 }	{ 1298 1298 }
Grover, Alva J., Omaha, Nebr. Self-recording rain-gage	530,338	Dec. 4	465	116	69	1298
Grover, George W., and J. A. Northrop, New Milford; said Grover assignor to C. L. Morgan, Danbury, Conn. Machine for wetting hat-bodies on cones	526,999	Oct. 2	534	{ 131 132 }	{ 69 69 }	{ 100 100 }
Grubb, Reuben J., Philadelphia, Pa. Apparatus for making rugs, &c.	527,971	Oct. 23	2171	522	69	446
Grubb, William V. L., and J. Peeling, Columbus, Ohio. Bolt	513,182	Jan. 23	2418	584	66	555
Grubbs, John W., Fair Play, S. C. Planter attachment for plows	527,683	Oct. 16	1656	399	69	335
Grube, Max, San Francisco, Cal. Machine for fixing threads in envelopes	515,524	Feb. 27	2556	634	66	1377
Gruebel, Emil, Baltimore, Md. Finger-ring gage	524,589	Aug. 14	1064	263	68	873
Gruell, August. (See Kropf, Paul, assignor.)						
Grueter, John B., and O. Jackson, Carrollton, Ill. Speed-multiplying gearing for bicycles or other machines	530,103	Dec. 4	44	12	69	1223
Grumbley, J. S. (See Ramsey, Philip L., assignor.)						
Grundy, Alfred, Cedar Falls, Iowa. Marking-tag	512,468	Jan. 9	1246	300	66	247
Grundy, James, Paterson, N. J. Ruling device	528,476	Oct. 30	3052	{ 740 741 }	{ 69 69 }	{ 620 620 }
Grundy, William S. (See Lever and Grundy.)						
Grundy, William S., assignor of one-half to O. Lever, Philadelphia, Pa. Sash-fastener	525,599	Sept. 4	467	112	68	1239
Gruner, Henry, assignor to Keystone Watch Case Company, Philadelphia, Pa. Engraver's chuck	520,778	June 5	29	6	67	1202
Grünig, Johann P., Mayence, Germany. Bottle-washer	513,502	Jan. 30	2955	727	66	692
Grüninger, Joseph, New York, N. Y. Newspaper-file	521,236	June 12	858	202	67	1366
Grunow, William, Jr., Mount Vernon, N. Y., assignor to Z. Goodsell, Bridgeport, Conn. Railway sanding device	520,048	May 22	1933	474	67	941
Grunow, William, Jr., Mount Vernon, N. Y., assignor to Z. Goodsell, Bridgeport, Conn. Snow-plow	520,777	June 5	27	6	67	1201
Grunow, William, Jr., Mount Vernon, N. Y., assignor to Z. Goodsell, Bridgeport, Conn. Sanding device	521,467	June 19	1286	300	67	1462
Grunwald, Ludwig, Toledo, assignor of one-half to C. Lang and D. Flath, Norwalk, Ohio. Car-coupling	530,413	Dec. 4	586	146	69	1322
Gruschow, Robert H., Chicago, Ill. Electric signal for steamboats	524,202	Aug. 7	401	95	68	735
Grunsonwerk. (See Dreger and Wratzke, assignors.)						
Grunsonwerk. (See Henning, Otto, assignor.)						
Grunsonwerk. (See Jochum, Paul, assignor.)						
Grunsonwerk. (See Kampf, August, assignor.)						
Grunsonwerk. (See Lubowski, Hermann, assignor.)						
Grunsonwerk. (See Martin, Carl, assignor.)						
Grunsonwerk. (See Mohr, Frederik, assignor.)						
Gschwendtner, Georg, Cincinnati, Ohio. Apparatus for one-ball-billiard games	520,423	May 29	2589	627	67	1078
Gschwendtner, Georg, Cincinnati, Ohio. Billiard-cue	529,731	Nov. 27	2150	513	69	1086
Gschwind, Edward, New Orleans, La. Steam-engine	523,118	July 17	1627	408	68	340
Guarantee Trust and Safe Deposit Company, administrator. (See Siemens, Charles W.)						
Guarantee Trust and Safe Deposit Company, trustee. (See Lowe, Thaddeus S. C., assignor.)						
Guay, Eugene, St. Henry of Montreal, Canada. Machine for waxing leather	522,411	July 3	408	104	68	81
Gudgell, Charles, Independence, Mo. Electric meter	513,391	Jan. 23	2751	{ 671 672 }	{ 66 66 }	{ 619 619 }
Gndmunsen, Abraham, Lehi City, Utah Ter. Car-coupling	516,304	Mar. 13	927	218	66	1643
Guels, Herman, assignor to Lansberg Brake Company, St. Louis, Mo. Automatic fluid-pressure brake mechanism	524,759	Aug. 21	1356	{ 330 331 }	{ 68 68 }	{ 939 939 }
Guels, Herman, assignor to Lansberg Brake Company, St. Louis, Mo. Automatic fluid-pressure brake mechanism	526,187	Sept. 18	1502	352	68	1448
Guerne, George E. (See Baker, Henry, assignor.)						
Guess, Emil F., Buffalo, N. Y. Machine for making slat-and-wire fabric	525,102	Aug. 28	1971	482	68	1066
Guest, James A., Washington, D. C., and J. H. Bates, Hoboken, N. J. Marine life-buoy	512,957	Jan. 16	2062	493	66	419
Guhier, Frank T. (See Pipes and Guhier.)						
Guhier, Frank T., Waynesburg, Pa. Overshoe-retainer	520,985	June 5	422	101	67	1273
Guilbert, Edmond, Woonsocket, R. I. Picker-motion for looms	527,853	Oct. 23	1950	467	69	405
Guilbert, John M., Philadelphia, Pa., assignor to A. N. Emdin, New York, N. Y. Paper bag	514,889	Feb. 13	1521	381	66	1158
Guild, George, Knoxville, Tenn., assignor of two-thirds to E. W. Codington and C. G. Memminger, Bartow, Fla. Apparatus for treating phosphate rock	512,958	Jan. 16	2063	494	66	420

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Guild, George M., assignor to L. A. Guild, Boston, Mass. Upright-piano action.....	515,049	Feb. 20	1765	{ 445 446 }	66	1217
Guild, L. A. (See Guild, George M., assignor.)						
Guillan, Rosa A., Pittsburg, Pa. Bust-form	528,633	Nov. 6	209	51	69	684
Guillaume, Alfred, assignor to T. T. Oliver, Chicago, Ill. Apparatus for extracting metals	531,309	Dec. 25	2175	521	69	1657
Guillaume, Theodore, Cologne, Germany. Electric cable	514,849	Feb. 13	1459	367	66	1147
Guillaume, Theodore, Cologne, Germany. Electric cable	531,614	Dec. 25	2706	649	69	1760
Guillaume, Theodore, Mülheim-on-the-Rhine, Germany. Electric cable	514,925	Feb. 20	1577	396	66	1123
Guinard, Henry. (See Vedovelli, Edouard, assignor.)						
Guinard, Henry, New York, N. Y. Hollow glassware	529,377	Nov. 20	1535	367	69	966
Guldhau, John J., assignor of one-half to L. Kittilsen, Stoughton, Wis. Motor.....	515,674	Feb. 27	2793	{ 696 697 }	66	1425
Guldin, Olaf N., Fort Wayne, Ind. Steam supply and circulating system for water-gas apparatus	524,108	Aug. 7	235	55	68	705
Guldin, Olaf N., Fort Wayne, Ind. Oil-feeding apparatus for gas-generators	528,872	Nov. 6	644	154	69	764
Guldin, Olaf N., Fort Wayne, Ind. Water-gas apparatus	529,262	Nov. 13	1327	319	69	906
Guli, Lorenzo. (See Ajello, Clement, assignor.)						
Gulick, Egbert, assignor to L. A. Gulick, Starkey, N. Y. Mineral fertilizer	522,561	July 3	658	.....	68	129
Gulick, Livonia A. (See Gulick, Egbert, assignor.)						
Gulickson, George, Chicago, Ill. Self-feeding smokeless furnace	520,986	June 5	422	{ 101 102 }	67	1273
Gulberg, Carl, Jersey City, N. J. Electric clock	527,528	Oct. 16	1405	342	69	289
Gullmann, Christopher, New York, N. Y. Dredging apparatus	516,090	Mar. 6	575	{ 134 135 }	66	1560
Gunderson, Neils, Ogdensburg, N. J. Railway-track	512,877	Jan. 16	1948	462	66	395
Gundlach, Frank C., Pittsburg, Pa. Medicine or sample case	526,486	Sept. 25	2019	487	68	1565
Gundlach Optical Company. (See Turner, Henry H., assignor.)						
Gunn, George P., Ilion, N. Y. Metallic fence-post	512,371	Jan. 9	1057	258	66	211
Gunn, William S. (See Deaton, Lemi B., assignor.)						
Gunner, Henry H., and F. O. Shirley, Northfield, Minn. Corn-planter	529,167	Nov. 13	1153	278	69	876
Gunning, Thomas, Pittsburg, Pa. Smoke-consumer	514,457	Feb. 13	794	204	66	1021
Gunning, Thomas, Pittsburg, Pa. Steam-boiler	529,529	Nov. 20	1831	435	69	1018
Gunsaul, John S. (See Ruthenberg, August, assignor.)						
Günther, Franz, assignor to G. Heckel, St. Johann, Germany. Sheave-pulley	522,466	July 3	504	128	68	100
Gurding, Charles E. (See Boyd and Gurding.)						
Gurney, D. M., et al. (See Illsley and Cook, assignors.)						
Gurney, Edward, Toronto, Canada. Steam or hot-water boiler	528,325	Oct. 30	2793	{ 673 674 }	69	573
Gurney, James T., Boston, Mass., and C. J. Medberry, Oshkosh, Wis. Refrigerator	514,596	Feb. 13	1046	262	66	1067
Gus, Samuel M., Harrisburg, Pa. Coupling device for rolling-mills	524,715	Aug. 21	1286	315	68	926
Gussett, Charles, Cincinnati, Ohio. Buggy-seat	523,835	July 31	2898	722	68	602
Gustavel, Louis G., Monticello, Ind. Hame-tug	513,919	Jan. 30	3632	835	66	820
Guste, Edward F., New Orleans, La. Ladder attachment	513,920	Jan. 30	3634	895	66	820
Gutenkunst, William, Milwaukee, Wis. Hay-sling	514,710	Feb. 13	1228	306	66	1103
Guthrie, John W. (See Sprague and Guthrie.)						
Guthrie, Malcolm. (See Browne, Herbert R., assignor.)						
Guthrie, Robert H., South Dumfries, Canada. Trap for flies on animals	516,048	Mar. 6	516	120	66	1548
Guthrie, William A., Durham, N. C. Automatic electric fire-alarm	514,361	Feb. 6	654	166	66	976
Guthrie, William A., Durham, N. C. Fire-alarm and sprinkler	514,362	Feb. 6	655	166	66	976
Guthrie, William A., Durham, N. C. Automatic fire-alarm	530,839	Dec. 11	1331	319	69	1473
Gutierrez, Manuel R., and M. T. Thompson, Jalapa, Mexico. Electric-arc lamp	513,921	Jan. 30	3634	896	66	820
Gutmann, Ludwig, Pittsburg, Pa. Dynamo or electric motor	515,216	Feb. 20	2031	{ 507 508 }	66	1267
Gutmann, Ludwig, Pittsburg, Pa. Alternating-current motor and operating same	530,176	Dec. 4	164	43	69	1245
Gutmann, Ludwig, Pittsburg, Pa. Alternating electric motor	530,177	Dec. 4	167	43	69	1245
Gutmann, Ludwig, Pittsburg, Pa. Electric conversion system	530,178	Dec. 4	170	43	69	1245
Guttenbrunner, Georg, Vienna, Austria-Hungary. Automatic water-gate	526,310	Sept. 18	1718	{ 405 406 }	68	1492
Gutterson, Frank E., Brooklyn, N. Y., assignor of one-half to H. H. Howard, East Orange, N. J. Seal	531,376	Dec. 25	2297	548	69	1620
Guttery, Lewis C., Lebanon, Ohio. Automatic grain-weigher	519,947	May 15	1761	432	67	894
Guttin, Alphonse, Paris, France. Feeding mechanism for wire-nail-making machines	518,500	Apr. 17	1846	458	67	369
Guy, Joseph, New York, N. Y. Heating attachment for gas cooking stoves	530,640	Dec. 11	1015	248	69	1415
Guy, Joseph P., assignor of two-thirds to J. C. Bailey, Burslem, and A. P. Llewellyn, Tunstall, England. Machine for making hollow earthenware articles	516,969	Mar. 20	2050	485	66	1868
Gny, Robert, Ashton, and O. E. Reed, Rochelle, Ill. Sash lock, lifter, and holder	521,955	June 26	2156	517	67	1641
Guy, Warwick. (See Ryan, Arthur, assignor.)						
Guyer, Caleb, Tyrone, Pa. Shingle-marker	520,424	May 29	2591	627	67	1078
Guyser, Frank C. (See Lowe and Guyser.)						
Guzowski, Joseph, Chicago, Ill. Trolley	523,163	July 17	1710	429	68	353
Gwin, Andrew J., assignor of one-half to J. F. Hill, Minden, La. Railway cattle-guard	527,684	Oct. 16	1657	399	69	336
Gwyn, Walter B., Asheville, N. C. Trunk	513,011	Jan. 16	2165	516	66	435
Gwynn, Edward F., Delaware, Ohio. Electric-arc lamp	522,790	July 10	1073	265	68	219
Gwynn, William, Jr., and D. Spencer, Napa, Cal. Tub	520,880	June 5	225	51	67	1238
H. Franke Steel Range Company. (See Erben and Koch, assignors.)						
H. H. Perkins Manufacturing Company. (See Perkins, Hazen H., assignor.)						
H. W. Butterworth & Sons Company. (See Mackinney, William C., assignor.)						
Haag, Adam W., Fleetwood, Pa. Trough	531,527	Dec. 25	2561	613	69	1730
Haag, Robert, Stuttgart, Germany. Wine and beer filtering apparatus	518,102	Apr. 10	1142	287	67	225
Haagen, Louis J., Alton, Ill. Show-stand	521,111	June 5	641	{ 150 151 }	67	1312
Haas, Emil, Meitz, Germany. Gas-mentz	522,054	June 26	2323	558	67	1671
Haas, Johannes, Eibenstock, and R. Lintz, Berlin, Germany. Sewing-machine	523,522	July 24	2349	590	68	485
Haas, Philip M. (See Miller and Haas.)						
Haas, Philip M., Youngstown, Ohio. Machine for straightening rods	518,403	Apr. 17	1680	{ 415 416 }	67	340
Haas, Philip M., and C. S. Dutton, Youngstown, Ohio. Machine for drawing bars or rods	520,592	May 29	2874	{ 695 696 }	67	1131
Haas, Samuel H., Philadelphia, Pa. Thill-tug	514,458	Feb. 13	795	205	66	1021
Habel, Jacob, Minneapolis, Minn. Level	523,205	July 17	1790	449	68	367
Habelt, John G., Boston, Mass. Tugere	521,857	June 26	1954	470	67	1603
Haberacker, Eugene O. M., Altoona, Pa. Washing-machine	523,343	July 24	2031	510	68	429
Haberhorn, Theodore H., Fort Wayne, Ind. Governor for air-brakes	531,181	Dec. 18	1936	460	69	1598
Haberle, John B., South Bend, Ind. Sprinkler	512,291	Jan. 9	930	226	66	128

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Haberle, John B., South Bend, Ind. Sprinkler	512,292	Jan. 9	932	226	66	189
Haberle, John B., assignor to Studebaker Brothers Manufacturing Company, South Bend, Ind. Sprinkler	528,252	Oct. 30	2670	643	69	552
Haberman, Frederick, New York, N. Y. Machinery for sheet-metal spinning	517,382	Mar. 27	1261	650	66	2022
Habermann, Rudolf, Berlin, Germany. Apparatus for separating air from rain-water flowing from roofs of houses	513,429	Jan. 23	2803	687	66	629
Habermann, Wilhelm. (See Wagner and Habermann.)						
Habersang, Wilhelm, and F. Zinzen, Dusseldorf, Germany. Metal-drilling machine	514,990	Feb. 20	1671	418	66	1201
Haberthür, Robert, assignor of one-half to F. E. Kämmer, West Hoboken, N. J. Combined wrench and pipe and thread cutter	521,265	June 12	910	215	67	1375
Hackley, Levant M., et al. (See Schad, Barnhard, assignor.)						
Hackman, Amandes, Peoria, Ill. Reclining-chair	524,716	Aug. 21	1287	315	68	927
Hackman, Thomas B., L. and A. Ruppel, Aurora, Mo. Hoisting and drilling machine	529,378	Nov. 20	1535	367	69	967
Hackworth, Thomas R., and W. C. McLellan, assignors of one-fourth to T. S. Richards, South Pittsburg, Tenn. Fire-alarm	528,160	Oct. 30	2503	605	69	521
Hadam, August, and C. Wolf, St. Louis, Mo. Street-indicator	530,768	Dec. 11	1224	297	69	1453
Hadaway, John B., Brockton, Mass. Stitch separating and indenting machine	521,972	June 26	2193	528 } 529 }	67	1647
Haddock, William J., Iowa City, Iowa. Forming cement walks	525,146	Aug. 28	2050	.....	68	1080
Haddox, Joseph O. (See Drummond, Edwin M., assignor.)						
Hadenfeldt, Ernst, et al. (See Müller, Rudolf, assignor.)						
Hadfield, Joseph, New York, N. Y., assignor to A. M. Fay, East Orange, N. J. Reaving device	524,247	Aug. 7	468	110	68	747
Hadfield, Robert A., Sheffield, England. Shell	522,012	June 26	2263	542	67	1659
Hadley, Charles E., Chicopee, Mass., assignor to Overman Wheel Company, Hartford, Conn., and Chicopee Falls, Mass. Resiliometer	524,546	Aug. 14	1004	247	68	862
Hadley, James, and F. Foster, Haven, Kans. Device for floating vessels over bars	515,878	Mar. 6	228	53	66	1496
Hadley, Joshua A., Brazil, assignor of one-half to W. F. Manter, Harmony, Ind. Lamp	526,665	Sept. 25	2331	557	68	1618
Hadley, Joshua A., assignor of one-half to T. C. Smith, Brazil, Ind. Stovepipe-fastener	530,484	Dec. 4	724	178	69	1347
Hadley, William, assignor of one-third to F. C. Wilkinson, Shelton, Conn. Automatic feed for wood-barking machines	528,873	Nov. 6	647	154	69	764
Haeg, Louis, Belleville, Ill. Gate-hinge	527,685	Oct. 16	1653	400	69	336
Haeseler, Charles A., et al. (See Robinson, William S., assignor.)						
Haff, Adolf, Pronten, Germany, assignor to Keuffel & Esser Company, New York, N. Y. Dividers	528,668	Nov. 6	265	65	69	693
Hafgar, Magnus J., assignor of one-half to F. Herhold & Sons, Chicago, Ill. Folding bed	514,547	Feb. 13	951	240 } 241 }	66	1050
Häfner, Carl, assignor to C. Reif and J. Kraus, trustee, Chattanooga, Tenn. Filter	591,650	June 19	1599	374	67	1519
Hagan, Joseph E. (See Buckman and Hagan.)						
Hagan, Louis T., assignor to Conn-Hagan Company, Winchester, Ky. Stave-jointing machine	530,943	Dec. 18	1505	357	69	1520
Hagan, Louis T., assignor of one-half to S. A. Conn, Winchester, Ky. Lathing-strip	531,589	Dec. 25	2664	640	69	1751
Hagens, Christian, Erfurt, Germany. Locomotive	525,205	Aug. 28	2145	523 } 524 }	68	1096
Hagar, Franklin W., Nashville, Tenn. Valve-gear	527,691	Oct. 16	1670	402 } 403 }	69	338
Hagele, Anton, assignor of one-half to J. Macdonald, Philadelphia, Pa. Floor-cloth	524,021	Aug. 7	89	.....	68	679
Hagen, Ferdinand J., New York, N. Y. Cigarette-machine	522,895	July 10	1228	305 } 306 }	68	245
Hagen, Ferdinand J., assignor, by mesne assignments, to E. H. Miller, New York, N. Y. Cigar-bunching machine	520,881	June 5	226	51	67	1239
Hagen, Henry A., Berlin, Canada. Shirt	521,610	June 19	1538	360	67	1507
Hagen, Martin P., assignor to S. Alexander, Minneapolis, Minn. Means for hitching horses	526,898	Oct. 2	384	95.96	69	72
Hageney, Patrick H., Harbor, Ohio. Apparatus for dumping cars	519,257	May 1	572	139	67	648
Hagenow, Emma, New York, N. Y. Pad for violins	519,791	May 15	1517	369	67	819
Hagenson, Olof, et al. (See Johanson, Emil G., assignor.)						
Hager, Charles. (See Ziegler and Hager.)						
Hager, Otto F., Buffalo, N. Y. Tooth-brush	520,593	May 29	2477	696	67	1131
Hagerman, George E., Brooklyn, N. Y. Brick or terra-cotta house	521,710	June 19	1698	399	67	1539
Hagey, Moses, et al. (See White, Benjamin F., assignor.)						
Haggas, Arthur L., and R. Heaton, Oakworth, England. Combing-machine	527,243	Oct. 9	923	222	69	187
Haggerty, J. Henry. (See Barr, William C., assignor.)						
Hague, James B., Horseheads, N. Y. Jointed horseshoe	526,034	Sept. 18	1237	285	68	1402
Hahlweg, Carl, Stettin, assignor of one-half to M. Bloch, Berlin, Germany. Repeating-timepiece	525,321	Aug. 28	2332	564	68	1132
Hahn, Arthur W., New York, N. Y. Brush	519,948	May 15	1763	432	67	894
Hahn, Henry, Terre Haute, Ind. Beer-cooler	519,708	May 15	1384	333	67	824
Hahn, John W., et al. (See Scheuerecker, Joseph, assignor.)						
Haigler, Charles F., Lebo, Kans. Hog-trough	517,101	Mar. 27	2301	542	66	1931
Hail, Nathan T., Flora, Ill. Saw-jointer	512,469	Jan. 9	1247	301	66	247
Hailes, Frederick A., et al., executors. (See Hailes, William.)						
Hailes, William, deceased, Albany, N. Y.; W. H. and F. A. Hailes, executors. Broiler	518,243	Apr. 17	1397	350	67	288
Hailes, William H., et al., executors. (See Hailes, William.)						
Hain, Ralph B., Grand Rapids, Mich. Combustible-vapor engine	531,182	Dec. 18	1938	461	69	1598
Haines, Edward C. (See Gaunt, Fillmore, assignor.)						
Haines, Jones & Cadbury Company. (See Booth, Alpheus T., assignor.)						
Haines, Robert S., Savannah, Ga., assignor of one-half to B. F. Peet, Springfield, Mass. Car-brake	514,926	Feb. 20	1578	397	66	1184
Haire, Robert E., London, England. Wall-finish compound	521,143	June 5	693	.....	67	1321
Haire, William H., assignor to Bristol Novelty Company, Bristol, Tenn. Wrench	514,459	Feb. 13	796	205	66	1022
Haise, Martha J., administratrix. (See Miles, Manoah.)						
Haish, Jacob, assignor to Haish Manufacturing Company, De Kalb, Ill. Car-coupling	514,826	Feb. 13	1413	357	66	1138
Haish Manufacturing Company. (See Haish, Jacob, assignor.)						
Haislett, Samuel J. (See Carter, John T., assignor.)						
Hajos, Albin, Chattanooga, Tenn. Cravat	529,732	Nov. 27	2152	513 } 514 }	69	1086
Hake, Daniel J., Middletown, Pa. Meat-tenderer	524,436	Aug. 14	821	200	68	829
Hakewessell, Reinhold, et al. (See Henn, Edwin C., assignor.)						
Hakewessell, Reinhold, assignor, by mesne assignments, to himself, H. S. Fuller, N. F. Miller, W. J. Gabb, Hartford, and E. C. Henn, Bloomfield, Conn. Screw-making machine	530,179	Dec. 4	172	44.45	69	1246
Halaron, William, Alton, assignor, by mesne assignments, of one-third to W. J. Roberts, Upper Alton, Ill. Kitchen-cabinet	523,069	July 17	1531	383	68	320

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Halbach, Fredrick C., Paterson, N. J. Bicycle-support	525,457	Sept. 4	238	58	68	1195
Halbeisen, Frank, Erlin, Ohio. Kiln	520,641	May 29	2948	713	67	1144
Hale, George C., Kansas City, Mo. Combined horse-collar and hames	529,733	Nov. 27	2153	514	69	1086
Hale, George W. (See Baldwin, Judson A., assignor.)						
Hale, James W., Newburyport, Mass. Valve mechanism for lavatory apparatus	524,989	Aug. 21	1748	427	68	1011
Hale, Napoleon B., San Bernardino, Cal. Fruit-peeling knife	518,501	Apr. 17	1848	459	67	370
Haley, Anslem J., Dallas, Tex. Slat-and-wire-fence machine	513,503	Jan. 30	2955	727	66	692
Hall, Albert B., Indianapolis, Ind. Triturating and powdering machine	515,217	Feb. 20	2038	508	66	1267
Hall, Albert E. (See Hall, Edgar and A. E.)						
Hall, Albert F., Boston, Mass., assignor to Geo. F. Blake Manufacturing Company, of New Jersey. Pump	531,528	Dec. 25	2562	613	69	1731
Hall, Albert F., Boston, and B. O. Gage, Somerville, Mass., assignors to George F. Blake Manufacturing Company, of New Jersey. Pumping-engine	522,938	July 10	1306	{ 325 326 }	{ 68 68 }	263
Hall, Albert H. (See Wilson, James N., assignor.)						
Hall, Alexander W., New York, N. Y. Hammer for pianoforte-actions	514,711	Feb. 13	1231	306	66	1103
Hall, Alfred, assignor of three-fourths to J. L. Vosburgh, Buffalo, N. Y. Governor for gas-burners	516,328	Mar. 13	966	228	66	1649
Hall, Alice S. (See Hall, Edgar C., assignor.)						
Hall, Almond D., et al. (See Hall, Charles H., assignor.)						
Hall, Bicknell, Taunton, assignor to Wainwright Manufacturing Company of Massachusetts, Boston, Mass. Feed-water heater	516,349	Mar. 13	996	237	66	1655
Hall, Bicknell, assignor of one-third to E. P. Coleman, Taunton, Mass. Tube for use in expansion-joints	530,305	Dec. 4	403	101	69	1288
Hall, Charles, New York, N. Y. Pipe-wrench	516,485	Mar. 13	1235	295	66	1699
Hall, Charles, New York, N. Y. Wrench for pipes, rods, &c	521,312	June 12	996	234	67	1391
Hall, Charles, New York, N. Y. Pipe-wrench	523,810	July 31	2250	708	68	593
Hall, Charles, New York, N. Y. Pipe-clamp	527,200	Oct. 9	850	207	69	173
Hall, Charles F., Skaneateles, N. Y. Apparatus for refitting stop-valves	513,392	Jan. 23	2757	672	66	620
Hall, Charles H., Glidden, Wis., assignor of one-half to A. D. Hall, J. V. Kinney, and J. K. Roy, St. Louis, Mo. Potato-digger	529,122	Nov. 13	1070	{ 253 259 }	{ 69 69 }	861
Hall, Charles K., and W. B. Lillard, New Orleans, La.; said Lillard assignor to said Hall. Electric wire coupling	524,980	Aug. 21	1722	422	68	1005
Hall, Charles R., assignor of one-third to C. E. Jones, Philadelphia, Pa. Car-fender	523,427	July 24	2162	545	68	452
Hall, Charles W., Bradford, assignor to D. Howells, M. W. Moffitt, J. Davis, and G. W. Campbell, Kane, Pa. Clothes-pin machine	513,572	Jan. 30	3082	{ 753 759 }	{ 66 66 }	716
Hall, Cliftou A., et al. (See Grant, Robert A., assignor.)						
Hall, Cofran L., San Francisco, Cal. Elevator for buildings	519,114	May 1	297	71	67	592
Hall, Daniel F., Schenectady, N. Y. Ciment-maker	522,055	June 26	2325	558	67	1671
Hall, Edgar and A. E., Cambridge, Mass. Machine for drying matrices	518,569	Apr. 17	1961	{ 484 485 }	{ 67 67 }	389
Hall, Edgar C., Decatur, Ill., assignor of one-half to A. S. Hall, Toledo, Ohio. Combined antirattler and shaft-support	529,327	Nov. 13	1437	346	69	928
Hall, Edward H., et al. (See Tonns, Lewis N., assignor.)						
Hall, Edward M., and F. Pearse, Dexter, N. Y. Pulp-screen	521,409	June 12	1164	276	67	1425
Hall, Edwin W., et al. (See Ives, Frederick C., assignor.)						
Hall, Elijah C., South Braintree, Mass. Water-heater	524,897	Aug. 21	1579	{ 386 387 }	{ 68 68 }	979
Hall, Frank C., Philadelphia, Pa. Buttonhole attachment for sewing-machines	513,504	Jan. 30	2958	728	66	693
Hall, George, New York, N. Y. Folding ladder	513,012	Jan. 16	2168	516	66	435
Hall, George F., Newark, N. J. Brake for velocipedes	524,527	Aug. 14	970	238	68	855
Hall, George F., Newark, N. J. Luggage-carrier	530,104	Dec. 4	46	13	69	1224
Hall, Henry E., Youngstown, Ohio. Greenhouse	519,766	May 15	1470	356	67	840
Hall, Hiram P., Chicago, Ill. Apparatus for automatically manufacturing shells for dynamite	520,922	June 5	307	{ 75 76 77 }	{ 67 67 67 }	1253
Hall, I. & E. (See Ellis, Oliver J., assignor.)						
Hall, Isaac A., et al. (See Ramsey, James W., assignor.)						
Hall, Isaac A., Paterson, N. J. Tension device for loom-shuttles	531,029	Dec. 18	1659	{ 393 394 }	{ 69 69 }	1547
Hall, Isaac N., Mediapolis, Iowa. Combined water-heater and range	523,277	July 17	1911	481	68	390
Hall, Jaemie B., et al. (See Hall, James B., assignor.)						
Hall, James, Chicago, Ill. Measuring-tank	529,326	Nov. 13	1435	345	69	928
Hall, James B., Columbus, Ohio, assignor to D. J. Mitchell and J. B. Hall, Grayson county, Tex. Picture-book	514,222	Feb. 6	428	103	66	932
Hall, James G., Kankakee, Ill., assignor of one-half to M. M. Hall, Monticello, Ind. Cultivator trip device	513,043	Jan. 16	2208	529	66	443
Hall, James L., Kingston, Mass. Pencil-sharpener	521,313	June 12	997	235	67	1391
Hall, James T., Chicago, Ill. Cattle-guard	512,509	Jan. 9	1310	316	66	259
Hall, Johan. (See Sarnmark, Axel, assignor.)						
Hall, John H., and D. Parry, London, England. Chain mortising-machine	518,546	Apr. 24	2092	522	67	427
Hall, John R., Jr., Fort Recovery, Ohio. Car-coupling	518,754	Apr. 24	2293	569	67	462
Hall, Maggie M. (See Hall, James G., assignor.)						
Hall, Major, and W. H. Baker, assignors of one-half to J. W. Thompson and M. Vis, St. Paul, Minn. Railway-rail joint	520,425	May 29	2592	627	67	1078
Hall, Marquis L., Omaha, Nebr. Corn-planter	518,840	Apr. 24	2426	601	67	486
Hall, Milan W., Plainfield, N. J. Pump	528,161	Oct. 30	2504	{ 605 606 }	{ 69 69 }	522
Hall, Noah. (See Cass, John A., assignor.)						
Hall, Osborn B., and G. H. Graves, Maldeu, Mass.; said Hall assignor to said Graves. Nipple-holder	523,722	July 31	2700	668	68	564
Hall, Robert C., Titusville, Pa. Nut cracker and pick	512,818	Jan. 16	1837	435	66	374
Hall, Robert E., Waterbury, Conn. Window-blind operator	516,681	Mar. 20	1580	376	66	1750
Hall, Robert E., Waterbury, Conn. Window-blind operator	522,592	July 10	715	183	68	156
Hall, Robert F., assignor to R. F. Hall Manufacturing Company, Limited, Birmingham, England. Cycle-steering lock	528,874	Nov. 6	648	{ 154 155 }	{ 69 69 }	764
Hall, Robert S., New York, N. Y. Rubber stamp	522,467	July 3	505	128	68	101
Hall Signal Company. (See Breese, Charles P., assignor.)						
Hall Signal Company. (See Daves, William, assignor.)						
Hall Signal Company. (See Salmon, Wilmer W., assignor.)						
Hall Signal Company. (See Wilson, Adoniram J., assignor.)						
Hall, Solomon M. (See Aldrich and Hall.)						
Hall & Sons, Robert. (See Ashworth and Oldham, assignors.)						
Hall, Thomas Q., Kansas City, Mo. Folding lounge or couch	517,102	Mar. 27	2303	543	66	1932

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Hall, Willard P. (See Johnson, Hall, Oakley, and Carrey.)						
Hall, William A. (See Adams, George S., assignor.)						
Hall, William F., Raytown, Mo. Self-feeder and band-cutter for thrashing-machines.....	523,399	July 24	2115	{ 531 532 }	68	444
Hall, William H., New York, N. Y. Saddle.....	523,789	July 31	2802	698	68	585
Halladay, William W., Farina, Ill. Wire-fence gate.....	514,319	Feb. 6	594	150	66	964
Hallas, James G., assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Electric rail-bond.....	523,278	July 17	1913	481	68	390
Hallbauer, Louis, Meriden, Conn. Smoke-consuming apparatus.....	523,035	July 17	1486	370	68	312
Haller, Gottlieb. (See Weicher, Jacob J., assignor.)						
Haller, Nicklaus, Pittsburg, Pa. Mining-shaft cage.....	516,350	Mar. 13	997	237	66	1656
Hallett, Albert. (See Adanson, Charles E., assignor.)						
Hallett, Hervey H., Rockland, Mass. Apparatus for facilitating launching life-boats.....	529,379	Nov. 20	1539	368	69	967
Halliburton, Martin J., Portageville, Mo. Chair.....	529,380	Nov. 20	1541	368	69	968
Halliday, William, and T. F. Rawls, Barnett, Miss. Railway-switch.....	515,675	Feb. 27	2797	697	66	1425
Halliwell, Samuel. (See Ferry and Halliwell.)						
Hallman, Victor H., Hot Springs, Ark. Surgical instrument.....	519,600	Apr. 24	2010	499	67	414
Hallock, Daniel Y., Southold, N. Y. Potato-digger.....	515,120	Feb. 20	1874	470	66	1237
Hallock, Samuel W., Oshkosh, Wis. Backwater trap and valve.....	526,649	Sept. 25	2302	551	68	1612
Hallock, William, Middletown, N. Y. Race-course.....	524,482	Aug. 14	894	220	68	842
Hallock, William H., Western Union, Wis., assignor of one-half to J. C. Bond, Chicago, Ill. Lubricator.....	522,204	July 3	35	9	68	9
Halloran, J. F., et al. (See Bailey, Richard G., assignor.)						
Hallowell, Albert, Lowell, Mass. Oil-can.....	512,438	Jan. 9	1186	288	66	236
Halpin, Druitt, London, England. Steam-generator.....	513,922	Jan. 30	3635	896	66	820
Halsey, Fred D., assignor to himself and A. Olfenbuttel, Tyler, Tex. Match-receptacle.....	531,115	Dec. 18	1812	{ 430 431 }	69	1575
Halstead, Benton, Riverside, assignor to J. G. Scott, Shandon, Ohio. Car-coupling.....	515,765	Mar. 6	64	15	66	1465
Halstead, Charles L., La Crosse, Wis. Thill-coupling.....	513,922	Sept. 4	381	93	68	1222
Halton, John, Round Rock, Tex. Submarine plow.....	525,897	Sept. 11	1015	229	68	1349
Halton, Thomas, Philadelphia, Pa. Jacquard apparatus for looms.....	524,898	Aug. 21	1582	347	68	980
Ham, Albert W., Lansingburg, assignor to Trojan Button Fastener Company, Incorporated, Troy, N. Y. Tube-loader for button-setting machines.....	530,105	Dec. 4	48	13, 14	69	1224
Ham, Herbert H., et al. (See Fenderson, Edward J., assignor.)						
Hamann, Carl, Rehnbeck, Germany. Driving-gear.....	527,552	Oct. 16	1442	351	69	296
Hambay, James T., Boston, Mass. Tension-adjusting device for railway-signals.....	520,397	May 22	2543	615	67	1054
Hamblin, Albert G., Ashland, Wis., assignor of one-half to C. H. Wallow, Detroit, Mich. Hitching device.....	530,992	Dec. 18	1593	378	69	1535
Hamburger, Israel H. (See May and Aron, assignors.) (Reissue.)						
Hamburger, Leon, et al. (See Darley, John W., Jr., assignor.)						
Hamburger, Philip, et al. (See Darley, John W., Jr., assignor.)						
Hamerly, Leonard, deceased, Jamaica, Iowa; N. M. Hamerly, administratrix. Hoisting-machine.....	520,426	May 29	2593	628	67	1079
Hamerly, Nancy M., administratrix. (See Hamerly, Leonard.)						
Hamill, Robert J., Chicago, Ill. Drive-chain.....	514,001	Feb. 6	44	11	66	862
Hamilton, Addison, and W. E. Morrison, Ravenswood, W. Va. Cultivator.....	529,381	Nov. 20	1542	369	69	968
Hamilton, Andrew. (See Gremmels, Frederick W., assignor.)						
Hamilton, Arch A. (See Parks and Hamilton.)						
Hamilton, Charles L., Philadelphia, Pa. Machine for breaking up strings or balls of paper-stock.....	527,281	Oct. 9	994	241	69	199
Hamilton, Frank. (See Cook, Frederick A., assignor.)						
Hamilton, George D., Innisfail, Canada. Metal fence.....	519,573	May 8	1155	278	67	769
Hamilton, Hugh D., South Orange, N. J. Identification attachment for umbrellas.....	525,415	Sept. 4	169	43	68	1182
Hamilton, James L., Alamosa, Colo. Barrel-truck.....	526,809	Oct. 2	229	56	69	43
Hamilton, John R. (See Fry and Hamilton.)						
Hamilton, Joseph B., Springfield, Mass. Device for playing the game of curling.....	517,103	Mar. 27	2304	543	66	1932
Hamilton, William R. (See Fulton, Joseph H., assignor.)						
Hamlet, Noah, Little Rock, Ark. Burglar-alarm.....	521,024	June 5	482	115	67	1284
Hamlin, Alphens, Almonte, Canada. Churn.....	516,305	Mar. 13	928	218	66	1643
Hamlin, Charles S., Los Angeles, assignor of one-half to A. C. Harper, University, Cal. Sheet-metal pipe.....	518,570	Apr. 17	1963	485	67	390
Hamlin, Charles S., Los Angeles, assignor of one-half to A. C. Harper, University, Cal. Sheet-metal pipe.....	521,766	June 19	1812	430	67	1558
Hamm, Siegmund, San Francisco, Cal. Caster.....	525,496	Sept. 4	297	73	68	1246
Hamm, William S., Chicago, Ill. Lantern.....	529,787	Nov. 27	2238	533	69	1102
Hamm, William S., Newton, Mass., assignor to Staple Fastening Machine Company, Saco, Me. Stapling-machine.....	521,369	June 12	1102	259	67	1412
Hamm, William S., and A. M. Dubarr, Chicago, Ill., assignors to Adams & Westlake Company, of Illinois. Tubular lamp.....	514,927	Feb. 20	1580	397	66	1184
Hammann, Edward. (See Reid and Hammann.)						
Hammarberg, Arnold L., and A. Berglöf, Worcester, Mass. Machine for rolling angle-bars.....	519,452	May 8	925	{ 223 224 }	67	729
Hammarstrom, Andrew E., Knoxville, assignor to W. H. McElwain, Appleton, Ill. Pitch-fork.....	514,069	Feb. 6	146	35	66	881
Hammen, Charles, Chicago, Ill. Governor for reversing engines.....	514,157	Feb. 6	349	84, 85	66	919
Hammer, Emil G., Brooklyn, N. Y. Self-winding electric clock.....	527,766	Oct. 23	1828	440	69	385
Hammer, George H., et al. (See Sann, William, assignor.)						
Hammon, Edwin W., Davisville, Cal. Extension step-ladder.....	514,223	Feb. 6	428	104	66	932
Hammond Bockle Company. (See Dalton, Daniel F., assignor.)						
Hammond, Charles A., Boston, Mass. Electric signal for railways.....	523,767	July 31	2773	{ 688 689 }	68	578
Hammond, Charles A., Boston, Mass. Mechanical trip for railway-signals.....	530,414	Dec. 4	588	146	69	1322
Hammond, Charles E. (See Warner and Hammond.)						
Hammond, Charles N., Boston, Mass. Rosette for electric-light wires.....	524,109	Aug. 7	237	55	68	705
Hammond, Charles N., Boston, Mass. Insulator.....	524,850	Aug. 21	1514	370	68	968
Hammond, Charles N., Boston, Mass. Rosette for electric-light wires.....	525,653	Sept. 4	561	135	68	1254
Hammond, David, Canton, Ohio. Shape-metal-cutting machine.....	516,735	Mar. 20	1679	398	66	1796
Hammond, David, Canton, Ohio. Shape-metal-cutting machine.....	516,736	Mar. 20	1680	398	66	1796
Hammond, David, Canton, Ohio. Shape-metal-cutting machine.....	516,737	Mar. 20	1682	398	66	1797
Hammond, E. A., et al. (See Miller, Wile S., assignor.)						
Hammond, Robert A., Provincetown, assignor of one-half to G. T. McLaughlin, Sandwich, Mass. Combined spring-shackle and oil-distributor.....	518,502	Apr. 17	1849	459	67	370
Hammond, William D., Businessburg, Ohio. Churn.....	516,970	Mar. 20	2052	485	66	1268
Hampe, Albert, St. Louis, Mo. Rotary engine.....	518,812	Apr. 24	2390	591	67	480

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Hampel, Carl Albert R., Leopoldshall, Germany. Casting-mold	529,906	Nov. 27	2441	586	69	1141
Hampson, Richard, <i>et al.</i> (See Bow, Richard, assignor.)						
Hampton, J. W. (See Johnson, John C., assignor.)						
Hampton, Lawson W., Elizabethton, Tenn. Vehicle	527,053	Oct. 9	632	154	69	133
Hampton, Robert I., Athens, Ga. Electric-railway conduit	514,827	Feb. 13	1416	358	66	1139
Hampton, William. (See Sabin and Hampton.)						
Hamshaw, Charles W., Gallatin, Mo. Door-check	531,116	Dec. 18	1814	431	69	1575
Hanahan, Hamilton W., Winstonsborough, S. C. Device for blowing out sparks on commutators of dynamos	512,612	Jan. 9	1457	352	66	286
Hanauer, Joseph. (See Marcy, Alexander, assignor.)						
Hanawalt, Daniel R., assignor of one-half to J. Haworth, Philadelphia, Pa. Photograph-mount	525,458	Sept. 4	239	79	68	1195
Hance, Wilkerson K., Spencerville, assignor of one-half to M. Hauss, Wapakoneta, Ohio. Attachment for lathes	512,372	Jan. 9	1058	258	66	211
Hance, William A., Freeport, Ill. Door-hanger	524,465	Aug. 14	268	214	68	838
Hancock, Frederick, Burslem, England. Teapot, coffee-pot, &c	523,344	July 24	2032	511	68	425
Hancock, Thomas, Marietta, Ohio. Lamp-hanger	522,160	June 26	2504	601	67	1705
Hand, A. W., <i>et al.</i> (See Edwards, Hubert F., assignor.)						
Hand, C. H., <i>et al.</i> (See Edwards, Hubert F., assignor.)						
Hand Stitch Broom Sewing Machine Company. (See McCombs, George F., assignor.)						
Hand, Zelopheard, Millville, N. J. Dental appliance	520,357	May 22	2484	602	67	1042
Handele, Joseph, Chicago, Ill. Box-blocking machine	521,025	June 5	483	115	67	1284
Handlan, Alexander H., Jr., St. Louis, Mo. Fishing-tackle case	513,044	Jan. 16	2209	529	66	443
Handly, J. B. (See Nevill, William B., assignor.)						
Handly, J. B., <i>et al.</i> (See Nevill, William B., assignor.)						
Hanes, William H. (See Misner, Edgar D., assignor.)						
Hanford, Melancthon, Malden, Mass. Trolley cut-out	512,373	Jan. 9	1059	259	66	211
Hanford, Melancthon, Malden, Mass. Atomizer	515,491	Feb. 27	2502	619	66	1367
Hangi, John L. (See Webster and Hangi.)						
Hangsten, Christian, Two Harbors, Minn. Fire-plug	511,948	Jan. 2	377	87	66	71
Hankey, John J., Beaver Dam, Wis. Electric belt	526,833	Oct. 2	266	64	69	50
Hankins, John H. (See Shailer, George W., assignor.)						
Hanlon, John R., Pennington, N. J. Lung-power tester and developer	524,899	Aug. 21	1584	338	68	980
Haun, Alice M. (See Hann, Chester K., assignor.)						
Hann, Benjamin, Santa Fe, Okla. Ter. Shingle-gage	521,112	June 5	642	151	67	1312
Hann, Chester K., Columbus, Ohio, assignor to A. M. Hann. Grass-catching attachment for lawn-mowers	529,030	Nov. 13	919	218	69	833
Hanna, Archibald N., Fort Wayne, Ind. Pencil-holder	513,573	Jan. 30	3085	759	66	716
Hanna, Eldridge D., Clifton, W. Va. Addressing-machine	514,363	Feb. 6	657	167	66	976
Hanna, Elmer E. (See Carman, Hanna, and Gates.)						
Hannaford, William S., Pasadena, Cal. Billiard-counter	520,987	June 5	426	102	67	1274
Hannabs, Fred C., assignor to Kenosha Crib Company, Kenosha, Wis. Folding cot	514,925	Feb. 20	1581	397	66	1184
Hannabs, Fred C., assignor to Kenosha Crib Company, Kenosha, Wis. Child's cart	523,705	Sept. 11	674	156	68	1287
Hannan, Harriet E. (See Hannan, William H., assignor.)						
Hannan, William H., assignor to H. E. Hannan, Syracuse, N. Y. Coal-stoker	523,982	Aug. 7	24	6	68	687
Hannay, James B., Loch Long, Scotland. Apparatus for extracting gold	529,263	Nov. 13	1330	319	69	907
Hanneborg, Odilon B. H., Urskog, Norway. Cutter-screw for ditching and tile-laying machines	530,687	Dec. 11	1092	265	69	1429
Hanner, George W., Holbrook, Ariz. Ter. Railway-switch	518,755	Apr. 24	2294	570	67	463
Hannon, Margaret. (See Arconrt, Theophile d', assignor.)						
Hannum, George R. (See Sperry and Hannum.)						
Hanrahan, James T., Albany, N. Y. Water-heater	512,191	Jan. 2	769	187	66	146
Hanrahan, James T., Albany, N. Y. Spring-support for upholstery	514,002	Feb. 6	45	11	66	863
Hansalpakar, Edwin, Watertown, assignor to Union Button Sewing Machine Company, Boston, Mass. Machine for sewing on buttons	531,261	Dec. 18	2087	500	69	1624
Hanscom, Adelbert P., West Medford, and A. C. Spencer, Roslindale, Mass. Inseam-trimming machine	520,020	May 15	1881	460	67	916
Hanscom, Edgar G., Everett, Mass. Combined cigar-cutter and advertising device	513,779	Jan. 30	3416	843	66	776
Hansel, Charles, Chicago, Ill. Switch	529,168	Nov. 13	1157	278 279	69	877
Hansell, William H., assignor to Charles Scott Spring Company, Philadelphia, Pa. Elliptic spring	525,600	Sept. 4	468	112	68	1239
Hansen, Alfred, Sidney, Neb. Match-safe	519,949	May 15	1764	432	67	895
Hansen, Florian E., Minneapolis, Minn. Dental articulator	516,529	Mar. 13	1321	314	66	1714
Hansen, Harry, Everett, assignor of one-half to N. Olson, Maplewood, Mass. Electric cut-out	531,310	Dec. 25	2177	521	69	1657
Hansen, Lawrence H., Danville, S. D. Top box or rack attachment for vehicles	523,523	July 24	2351	590 591	68	485
Hansen, Marius H., Chicago, Ill. Spring-scale	528,326	Oct. 30	2794	674	69	574
Hansen, Wilhelm, Gotha, Germany. Apparatus for drying casting-molds	530,641	Dec. 11	1016	248	69	1415
Hanson, Axel H., Brooklyn, N. Y. Nose-bag	514,712	Feb. 13	1232	307	66	1104
Hanson, Charles A., Gadsden, Ala. Self-feed and skim-gate mold	513,968	Jan. 30	3709	913	66	835
Hanson, Daniel, Chelsea, Mass. Tube or flue cleaner	527,972	Oct. 23	2175	522	69	447
Hanson, Earl E., Spokane, Wash. Locomotive-engine	523,830	July 10	1134	281	68	230
Hanson, George H., Ellsworth, Iowa. Belt-tightener	516,927	Mar. 20	1983	466	66	1854
Hanson, Isaac W. (See Dodge, William L., assignor.)						
Hanson, John, P. C. D. Castle, and J. H. Morrison, Liverpool, England. Gum and making same	531,377	Dec. 25	2298	-----	69	1680
Hanson, John T., assignor of one-half to E. R. Crump, London, England. Metronome	512,470	Jan. 9	1248	301	66	248
Hanson, Julius L., U. S. Army. Trolley-spring	526,705	Oct. 2	60	15	69	14
Hanson, Nils G., Stockholm, Sweden. Cartridge implement	514,548	Feb. 13	952	241	66	1050
Hanson, Oscar, Du Bois, Pa. Life-saving garment	525,342	Sept. 4	29	7	68	1156
Hanson, Paul, Chicago, Ill. Harvester	523,661	July 31	2574	643 644 645	68	543
Hanson, William H., assignor of one-half to D. Whitmore, Scotch Ridge, Ohio. Fence	523,571	July 24	2419	606	68	498
Hanvey, Robert E., Chicago, Ill. Coin separator and deliverer	512,959	Jan. 16	2085	494	66	420
Hapgood, Clarence H., Dayton, Ohio. Roll-paper holder and cutter	524,320	Aug. 14	603	145	68	790
Harbaugh, Howard E., Rockford, Ill., assignor, by mesne assignments, to Chicago-Rockford Hosiery Company, Kenosha, Wis. Circular-knitting machine	513,707	Jan. 30	3311	816 817 818 819	66	757
Harbers, Frederick, Peoria, Ill. Bow-facing car	530,519	Dec. 11	799	198	69	1378

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Name, residence and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Harboe, Kristen N., Copenhagen, Denmark. Valve	527,201	Oct. 9	851	207	69	174
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio. Valve mechanism for compound engines	512,192	Jan. 2	770	187 188	66	146
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio. Railway-signal	516,049	Mar. 6	517	120	66	1549
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio. Railway-switch	516,050	Mar. 6	518	120	66	1549
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio. Triple-expansion engine	516,434	Mar. 13	1149	275	66	1083
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio. Valve and steam-chest for engines	527,330	Oct. 9	1072	258 259	69	213
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio. Steam-chest for compound engines	527,388	Oct. 9	1168	286 287	69	232
Harden, Edward W., assignor to F. C. Weir, Cincinnati, Ohio. Valve-setting lever	529,264	Nov. 13	1330	319	69	907
Hardesty, Benjamin. (See Boyd and Hardesty.)						
Hardesty, John F., and R. A. Sala, St. Joseph, Mo. Arm for firing fulminated sticks	518,601	Apr. 24	2012	500	67	414
Hardesty, Jonathan C. (See Lamb and Hardesty.)						
Hardie, James L., assignor of one-half to J. J. Leary, Chester, Pa. Car-truck	517,571	Apr. 3	254	59	67	50
Hardie, Robert W., Albany, N. Y. Currycomb	527,973	Oct. 23	2175	522	69	447
Harding, Charles, Norfolk, Nebr. Milk-cooler	516,705	Mar. 20	1617	385	66	17-6
Harding, Daniel, Towson, and W. L. Fitzhugh, Baltimore, assignors to said Harding and J. I. Yellott, Towson, Md. Safety car-fender	522,412	July 3	409	104 105	68	81
Harding, Fred D., Baldwin, Me. Garment-supporter clasp	531,415	Dec. 25	2360	563	69	1692
Harding, Fred D., assignor to S. J. Harding, Baldwin, Me. Washing-machine	525,322	Aug. 28	2335	564	68	1132
Harding, John P., London, England. Vent-peg for beer or other casks	513,319	Jan. 23	2640	640	66	598
Harding, Simon J. (See Harding, Fred D., assignor.)						
Harding, Thomas, San José, Cal. Rotary engine	513,232	Jan. 23	2497	603	66	570
Harding, Thomas A. (See Dickey and Harding.)						
Harding, Walter L., Livingston, Tex. Wick-regulator for lamps	529,382	Nov. 20	1545	369	69	968
Hardman, James, Jr., Belleville, N. J. Syringe	523,345	July 24	2033	511	68	429
Hardman, James, Jr., Belleville, N. J. Heel-valve for atomizers	527,974	Oct. 23	2177	523	69	447
Hardon, Chester F. (See Daily, John W., assignor.)						
Hards, Edward, and W. A. Woodard, assignors of one-third to W. P. Bates, Superior, Nebr. Combined purifier and separator	529,788	Nov. 27	2230	534	69	1102
Hardsoeg, Martin, Ottumwa, Iowa. Coal-drill	513,320	Jan. 23	2641	640	66	598
Hardsoeg, Martin, Ottumwa, Iowa. Mining-tool	520,000	May 15	1851	452	67	910
Hardsoeg, Martin, Ottumwa, Iowa. Pick	527,331	Oct. 9	1073	259	69	213
Hardwick, Harry, Philadelphia, Pa. Woven pile fabric	518,883	Apr. 24	2493	618	67	500
Hardwick, Harry, Philadelphia, Pa. Woven fabric	524,321	Aug. 14	604	145	68	790
Hardwick, Harry, Philadelphia, Pa. Wire-retaining device for looms for weaving pile fabrics	529,615	Nov. 20	1962	467	69	1043
Hardwick, Harry, Philadelphia, Pa. Woven pile fabric	529,858	Nov. 27	2369	567	69	1127
Hardwick, Saunie W., et al. (See Elam, William E., assignor.)						
Hardy, Charles S., San Diego, Cal. Refrigerator-car	526,969	Oct. 2	492	121	69	92
Hardy, Francis A. (See Delano and Hardy.)						
Hardy, Frederick, Birmingham, Ala. Railway frog and switch	531,030	Dec. 18	1661	394	69	1547
Hardy, Frederick, and L. W. McCants, Birmingham, Ala.; said McCants assignor to said Hardy. Railway-switch	516,599	Mar. 13	1432	340	66	1735
Hardy, James, and B. Dunn, Clayville, N. Y. Nut-wrench	513,233	Jan. 23	2499	604	66	571
Hare, John, and G. F. Cook, Lansingburg, N. Y. Cash-register	515,786	Mar. 6	65	15	66	1465
Hare, Robert W., Allegheny, Pa. Elevator	521,086	June 5	598	141	67	1304
Harendt, William F. (See Thomas, David R., assignor.)						
Harfield, William H., London, England. Capstan	515,935	Mar. 6	317	76	66	1512
Harfield, William H., London, England. Coupling for shafts	524,087	Aug. 7	199	44	68	698
Hargrave, Edward C., Bay City, Mich. Rossing logs	516,091	Mar. 6	577	135	66	1560
Hargreaves, Joseph, Bolton, England. Spindle and support for spinning and doubling machines	519,532	May 8	1091	261 262	67	758
Harker, Albert E., Homerstown, N. J. Puzzle	513,105	Jan. 23	2290	554	66	529
Harkins, Charles H., St. Louis, Mo. Supply system for electric railways	523,477	Oct. 30	3055	741	69	621
Harkins, James S., Minneapolis, Minn. Heating-stove	524,248	Aug. 7	469	110 111	68	747
Harkness, John O., et al. (See Ramsey, James W., assignor.)						
Harkness, Charles A., Providence, R. I. Elevator controlling device	522,161	June 26	2505	601 602	67	1706
Harlan, Abram D. (See Criawell, Joel T., assignor.)						
Harland, William O., Monon, Ind. Mop head and wringer	515,676	Feb. 27	2799	698	66	1426
Harleman, John, St. George, near St. Joseph, Mo., assignor of five-eighths to E. H. S. J., and F. Collins, Rock Island, Ill. Furnace for producing fuel-gas	516,351	Mar. 13	998	237 238	66	1656
Harley, Alfred, Albany, N. Y. Blind-slat holder and fastener	522,593	July 10	716	183 184	68	156
Harley, John, Detroit, Mich. Band-saw mill	512,107	Jan. 2	635	152	66	121
Harley, Joseph L. (See Cooke and Harley.)						
Harlow, John R., Auburn, N. Y. Trolling-spoon	520,594	May 29	2878	696	67	1131
Harman, Abraham. (See Schmidt, George C., assignor.)						
Harman, Samuel W., Rogers, and F. H. Romans, Bentonville, Ark. Check-row attachment for planters	531,117	Dec. 18	1816	431 432	69	1375
Harman, Stephen S., New York, N. Y. Device for marking balk-lines on billiard-tables	518,450	Apr. 17	1767	438	67	356
Harmon, John W., Cromwell, Iowa. Combined side-delivery hay rake and loader	522,659	July 10	827	206 207	68	175
Harmon, Milford, Jackson, Mich. Dust-collector	515,767	Mar. 6	67	16	66	1466
Harmon, Willard D., and E. C. Kelonge, Beloit, Wis. Bag-holder	524,041	Aug. 7	119	26	68	684
Harmon, William, Barton, Fla. Drier	512,547	Jan. 9	1362	329 330	66	269
Harmon, William D., Marysville, Ohio. Harvester	519,019	May 1	126	31, 32	67	560
Harms, George H., et al. (See Mummery, Edwin G., assignor.)						
Harmen, Ludwig W., Minneapolis, Minn. Voting-machine	512,699	Jan. 16	1609	386	66	331
Harmuth, Albert, assignor to Tentelow Chemical Works Company, St. Petersburg, Russia. Means for heating with liquid fuel	516,928	Mar. 20	1984	466	66	1854
Harnischfeger, Philip, New York, N. Y. Fan	512,293	Jan. 9	932	227	66	189
Harper, Abraham T. and J. Portland, Me. Shoe-last	526,035	Sept. 18	1238	285	68	1402
Harper, Arthur C. (See Hamlin, Charles S., assignor.)						
Harper, David, Scott county, Ill. Self-feeder and band-cutter for thrashing-machines	523,279	July 17	1914	481	68	390
Harper, Horatio R., Sands Point, N. Y. Bottle, &c	512,374	Jan. 9	1061	259	66	212
Harper, James, and F. Clingfast, La Pile, Ark. Cotton-planter	524,760	Aug. 21	1358	331	68	939
Harper, John. (See Harper, Abraham T. and J.)						
Harper, John, Fairfield, Iowa. Tool for gripping and stretching wire	512,582	Jan. 9	1414	341	66	278

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Harper, John D., Brooklyn, N. Y. Mute or damper for banjos	526,899	Oct. 2	386	96	69	72
Harper, Nathan, Newark, N. J. Smoke-consumer	512,879	Jan. 16	1950	{ 462 463 }	66	396
Harpham, G. E., <i>et al.</i> (See Whitney, E. P., assignor.)						
Harpst, Edgar S., assignor to F. L. De Shong, Tyler, Tex. Combined vegetable slicer and grater	522,756	July 10	1024	253	68	208
Harrah, Philip J., assignor to S. Lehman, Bloomfield, Ind. Vehicle-shaft holder	522,114	June 26	2420	581	67	1689
Harrell, Hardy B., Gainesville, Tex. Artificial tooth	515,400	Feb. 27	2363	586	66	1341
Harrell, R. L., <i>et al.</i> (See Bishop, James C., assignor.)						
Harrer, Henry, Allegheny, Pa. Curve-scriber	511,772	Jan. 2	47	12	66	12
Harrigan, Jay D., Gouverneur, N. Y. Shaft-tug	527,173	Oct. 9	808	197	69	165
Harild, Frederick, and J. F. Buckland, London, England. Platen printing-machine	517,040	Mar. 27	2185	{ 517 518 }	66	1909
Harrington, Albert B. (See Knight and Harrington.)						
Harrington, Andrew J. and B. M., Magnolia, Ark. Combined planter and fertilizer-distributor	514,071	Feb. 6	149	35	66	882
Harrington, Benjamin M. (See Harrington, Andrew J. and B. M.)						
Harrington, Edward M., Miller, Ind., assignor of one-half to W. B. Lewis, Chicago, Ill. Machine for making tubular casings	521,792	June 26	1853	{ 442 443 }	67	1583
Harrington, Fred J. (See Wheeler, Edgar T., assignor.)						
Harrington, George W., Wakefield, Mass. Fitting for connecting lengths of pipe	520,988	June 5	427	102	67	1274
Harrington, M. H., <i>et al.</i> (See Du Bois, Henry L., assignor.)						
Harrington, Samuel H., Easton, Pa. Railway signaling apparatus	515,469	Feb. 27	2469	{ 611 612 }	66	1361
Harrington, Thomas F., Indianapolis, Ind. Railway mileage-ticket	512,878	Jan. 16	1949	462	66	396
Harris, Allen M. (See Loomis and Harris.)						
Harris, Andrew J., Chicago, Ill. Dental-engine head	517,218	Mar. 27	2495	587	66	1969
Harris, Anthony, Middlesborough, England. Feed-water filter	515,768	Mar. 6	69	16	66	1466
Harris, Anthony, Middlesborough, England. Feed-water filter	515,769	Mar. 6	71	16	66	1467
Harris, Anthony, Middlesborough, England. Pile-shoe	521,285	June 12	952	225	67	1322
Harris, Benjamin S. H. (See Harris, William A. and B. S. H.)						
Harris, Charles R., Williamsport, Pa. Buckle	513,780	Jan. 30	3418	843	66	776
Harris, Charles R., Williamsport, Pa. Buckle	519,889	May 15	1675	408	67	879
Harris, Edmund H., Philadelphia, Pa., assignor to National Machine Company, of New York. Sewing-machine for barring buttonholes	528,225	Oct. 30	2620	{ 632 633 }	69	542
Harris, Erwin W., Palisade, Nev. Exhaust-nozzle for locomotives	513,923	Jan. 30	3638	897	66	821
Harris, Fredrick W., Woodstock, Canada. Lock	518,884	Apr. 24	2494	618	67	500
Harris, Henry, assignor of one-half to H. W. Bingham and W. H. Moyer, Georgetown, Pa. Reworking scrap-steel	531,262	Dec. 18	2089	.....	69	1625
Harris, Hiram W. (See Jeffrey, Albert D., assignor.)						
Harris, James L., assignor to E. G. Kemper, Burlington, Iowa. Gate	526,312	Sept. 18	1720	406	68	1492
Harris, John, <i>et al.</i> (See Fox, Edward, assignor.)						
Harris, John T., New York, N. Y. Apparatus for purifying liquids	531,118	Dec. 18	1818	432	69	1576
Harris, John T., New York, N. Y. Method of and apparatus for purifying liquids	531,183	Dec. 18	1939	461	69	1599
Harris, Jonathan, Cleveland, Ohio. Fence-fastener	526,311	Sept. 18	1719	407	68	1492
Harris, Joseph A., <i>et al.</i> (See Fougère, Angus, assignor.)						
Harris, Joseph A., Moncton, Canada. Tie-plate for railway-tracks	514,828	Feb. 13	1418	358	66	1139
Harris, Levi, assignor of three-fourths to O. M. Allen, Sr., and H. B. Peck, Kalamazoo, Mich. Hub-attaching device	512,613	Jan. 9	1458	352	66	287
Harris, Levi, assignor of two-thirds to O. M. Allen, Sr., and H. B. Peck, Kalamazoo, Mich. Railway-crossing gate	521,881	June 26	1992	481	67	1611
Harris, Lillie, and M. Jaiser, Richmond, Va. Wardrobe-bedstead	522,013	June 26	2264	542	67	1659
Harris, R. Duncan. (See Pendleton, John H., assignor.)						
Harris, Robert, Port Huron, Mich. Mill	517,104	Mar. 27	2305	543	66	1932
Harris, Robert L., New York, N. Y. Tubular underground structure	528,367	Oct. 30	2665	693	69	586
Harris, Robert L., New York, N. Y. Tube for cement foundations or underground structures	528,368	Oct. 30	2866	694	69	587
Harris, Robert N., Hickory, N. C. Combined bit and month-opener	523,811	July 31	2852	708	68	593
Harris, Samuel, Cleveland, Ohio. Safety-switch for high-potential circuits	524,717	Aug. 21	1288	315	68	927
Harris, Thomas, Detroit, Mich. Supply system for electric railways	521,711	June 19	1699	400	67	1539
Harris, Thomas A., Philadelphia, Pa. Vat for dyers' use	513,321	Jan. 23	2642	640	66	598
Harris, Thomas F., Anniston, Ala. Combined lead-pencil and sharpener	531,031	Dec. 18	1662	394	69	1547
Harris, Towasend, Brainerd, Minn. Combination-tool	519,574	May 8	1156	{ 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	67	769
Harris, William A. and B. S. H., Pelzer, S. C. Air-brake coupling	515,219	Feb. 20	2040	{ 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	66	1268
Harris, William A. and B. S. H., Pelzer, S. C. Automatic air-brake coupling	515,220	Feb. 20	2043	{ 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868		

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Harrison, John, <i>et al.</i> (See Parmele, Theodore W., assignor.)						
Harrison, John H. (See Schleiper and Harrison.)						
Harrison, John J., London, England. Advertising match-box	521,212	June 12	815	{ 191 192 }	{ 67 68 }	1358
Harrison, John J., Excelsior, Minn. Stock for screw-cutting dies	522,206	July 3	37	10	68	9
Harrison, John M. (See Harrison, Walton, assignor.)						
Harrison Safety Boiler Works. (See Cochrane, David, assignor.)						
Harrison, Samuel and G. H., Ripon, England. Turbine	530,520	Dec. 11	801	198	69	1378
Harrison, Thomas. (See Tetlow and Harrison.)						
Harrison, Walton, Meridian, assignor to J. M. Harrison, Starkville, Miss. Fluid-pressure shaft-support	519,906	May 15	1696	414	67	883
Harrison, William. (See Weber and Harrison, assignors.)						
Harrison, William, <i>et al.</i> (See Harrison, James R., assignor.)						
Harrison, William H. (See Savage and Harrison.)						
Harrison, William H., Newark, N. J. Centrifugal blower	523,935	July 31	3081	767	68	637
Harrison, William P. (See Gray, Henry F., assignor.)						
Harrison, William P., Columbus, Ohio. Dish-cleaner	528,875	Nov. 6	649	155	69	765
Harrison, William T., Pooler, assignor of two-thirds to M. Rohrer and J. W. Preston, Marlow, Ga. Tanning apparatus	514,549	Feb. 13	954	241	66	1050
Harry, Hugh W. (See Harry, Thomas C. and H. W.)						
Harry, Thomas C. and H. W., Dallas, Tex. Stock-trough	531,184	Dec. 18	1943	461	69	1599
Hanson, Edward D., Brooklyn, assignor to Mining and Dredging Power Company, New York, N. Y. Steam-vacuum dredger	514,598	Feb. 13	1048	262	66	1068
Harsin, Charles D., Stockton, Cal. Syringe	515,288	Feb. 20	2164	{ 537 538 }	{ 66 67 }	1293
Hart, Arthur E., Broken Hill, New South Wales. Shaft-tng	531,529	Dec. 25	2564	613	69	1731
Hart, Charles E., assignor to Stanley Works, New Britain, Conn. Drive-chain link	523,346	July 24	2035	511	68	429
Hart, Charles E., assignor to Stanley Works, New Britain, Conn. Pinle for blind-hinges and making same	524,483	Aug. 14	895	220	68	842
Hart, Charles W., assignor, by mesne assignments, to Hart Manufacturing Company, Troy, N. Y. Oil-can	521,113	June 5	642	151	67	1313
Hart & Cronse. (See Mackay, William M., assignor.)						
Hart, David B., New York, N. Y. Automatic railway-switch	513,781	Jan. 30	3419	843	66	777
Hart, Edward, assignor to himself, J. T. Baker, and G. P. Adamson, Easton, Pa. Apparatus for condensing nitric acid, &c.	525,761	Sept. 11	763	177	68	1303
Hart, Frederick, Poughkeepsie, N. Y. Speed indicator for shafting	512,960	Jan. 16	2086	495	66	420
Hart, Geo. W., <i>et al.</i> (See Newlyn, Robert A., assignor.)						
Hart, George L., assignor of one-half to H. C. Hart, Unionville, Conn. Metal-rolling machine	524,547	Aug. 14	1007	248	68	862
Hart, Henry C., Detroit, Mich. Billiard-cue lock	518,317	Apr. 17	1516	379	67	310
Hart, Howard S., New Britain, Conn. Drive-chain	520,231	May 22	2272	553	67	1001
Hart, Hubert C. (See Hart, George L., assignor.)						
Hart, James, <i>et al.</i> (See Smith, John A., assignor.)						
Hart Joseph. (See Munro, Hart, and Batey.)						
Hart Manufacturing Company. (See Hart, Charles W., assignor.)						
Hart, Milton H., assignor of one-third to T. V. Forster, New York, N. Y. Spray-nozzle for fire-hose	523,768	July 31	2777	689	68	578
Hart, Samuel J., assignor to J. R. Clancy, Syracuse, N. Y. Hose-clamp	513,322	Jan. 23	2642	641	66	599
Hart, Thomas J., assignor to Sherwood Manufacturing Company, Buffalo, N. Y. Lubricator	528,429	Oct. 30	2971	719	69	605
Hart Weigher Company. (See Kramer, George W., assignor.)						
Hart, William H., Chelsea, Mass. Safety-guard for open cars	517,339	Mar. 27	2691	{ 631 632 }	{ 66 67 }	2007
Hart, William H., New Britain, Conn. Strap-hinge	527,075	Oct. 23	2177	523	69	447
Harte, Richard, Croydon, England. Type-writing machine attachment for writing and translating messages in cipher	527,112	Oct. 9	710	174	69	147
Hartel, Florence L., administratrix. (See Hartel, John G.)						
Hartel, John G., deceased, Keokuk, Iowa; F. L. Hartel, administratrix. Electromagnetic switch	528,430	Oct. 30	2973	719	69	605
Hartford Machine Screw Company. (See Witherell, George E., assignor.)						
Hartford Sanitary Manufacturing Company. (See Kellogg, Charles E., assignor.)						
Harth, Constant, San Francisco, Cal. Device for drawing steam-beer	515,470	Feb. 27	2473	612	66	1361
Harthan, Charles E. (See Thomson and Harthan.)						
Hartie, Richard, Pittsburg, Pa. Furnace	515,471	Feb. 27	2474	612	66	1362
Hartley, Charles J., assignor of two-thirds to J. K. Warren and B. K. Durfee, Decatur, Ill. Electric-arc lamp	512,880	Jan. 16	1953	463	66	397
Hartley, John W., Kilmarnock, Scotland. Screw-tapping machine or attachment	513,363	Jan. 23	2708	658	66	610
Hartley, John W. and J. Kerr, Kilmarnock, Scotland. Gas-engine	515,770	Mar. 6	73	17	66	1467
Hartley, Joseph W. (See Battey, Sumter B., assignor.)						
Hartley, Marcellus, <i>et al.</i> (See Mosher, Beardsley, and Moulton, assignors.)						
Hartley, Thomas, Handsworth, England. Wheel	513,782	Jan. 30	3420	844	66	777
Hartley, Walter S., Little York, Ill. Thill-coupling	527,148	Oct. 9	773	189	69	158
Hartley, William H., <i>et al.</i> (See Wise, Benjamin F., assignor.)						
Hartman, Henry. (See Jones, Albert W., assignor.)						
Hartman, Wilmer. (See Matthias and Hartman.)						
Hartmann & Braun. (See Bruger, Theodor, assignor.)						
Hartmann & Braun. (See Hartmann, Eugen, assignor.)						
Hartmann, Eugen, Frankfurt-on-the-Main, assignor to Hartmann & Braun, Bockenheim, near Frankfurt-on-the-Main, Germany. Electric meter	523,662	July 31	2590	645	68	546
Hartmann, Henry. (See Van Cauwenbergh, Frank, assignor.)						
Hartmann, Henry G. (See Koehler and Hartmann.)						
Hartmann, Robert, Kerbsche Hühle, near Dingselstädt, Germany. Mixing-machine	517,158	Mar. 27	2394	564	66	1949
Hartmann, Robert, Kerbsche Hühle, near Dingselstädt, Germany. Mixing-machine	517,159	Mar. 27	2396	565	66	1949
Hartmann, Wilhelm, and J. L. Thomson, Offenbach-on-the-Main, Germany. Leather-skiving machine	527,424	Oct. 16	1226	301	69	256
Hartmann, William C., Philadelphia, Pa. Centrifugal cream-separator	528,941	Nov. 13	785	{ 183 184 }	{ 69 70 }	809
Hartness, James, Springfield, Vt. Automatically-opening die for cutting screw-threads	522,413	July 3	411	105	68	81
Hartness, James, Springfield, Vt. Screw-cutting die	529,169	Nov. 13	1158	279	69	877
Hartness, James, Springfield, Vt. Friction-clutch	530,339	Dec. 4	466	117	69	1299
Hartnett, John J., London, England. Inhaler	513,934	Jan. 30	3640	897	66	821
Harton, Pembroke D., Philadelphia, Pa. Cake-machine	516,648	Mar. 20	1521	{ 361 362 }	{ 66 67 }	1768
Harton, Pembroke D., assignor to J. H. Mitchell, Philadelphia, Pa. Cake-machine	524,022	Aug. 7	90	20	68	679

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Harton, Thomas J., Waco, Tex. Ice-cream freezer.....	513,925	Jan. 30	3640	897	66	821
Hartpence, Phoebe M., Harrison, Ohio. Curtain-stretcher.....	517,694	Apr. 3	470	113	67	90
Hartshorn, Edmund F., Newark, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Shade-roller.....	515,218	Feb. 20	2039	508	66	1268
Hartshorn, Stewart, Short Hills, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Shade-roller.....	513,783	Jan. 30	3421	844	66	777
Hartshorn, Stewart, Short Hills, N. J., assignor to Stewart Hartshorn Company, of New Jersey. Shade-roller.....	516,486	Mar. 13	1237	295	66	1699
Hartshorn, Willis N., Brooklyn, assignor to S. Carey, New York, N. Y. Grinding-mill.....	526,313	Sept. 18	1721	407	68	1492
Hartshorn, Willis N., Brooklyn, assignor to S. Carey, New York, N. Y. Ball-and-socket joint for use in mills.....	527,282	Oct. 9	995	241 242	69	199
Hartshorne, Henry G., <i>et al.</i> (See Howe, Patrick, assignor.)						
Hartung, Charles C., assignor to Mississippi Glass Company, St. Louis, Mo. Washboard.....	525,416	Sept. 4	170	43	68	1182
Hartwell, Newton W., and T. J. Howe, Louisville, Ky. Attachment for type-writing machines.....	528,092	Oct. 23	2385	575	69	485
Hartwell, William. (See Edwards, George E., assignor.)						
Hartwig, Charles H., New Kensington, Pa. Brow-band for bridles.....	526,706	Oct. 2	61	16	69	14
Hartz, Henry V., Cleveland, Ohio. Snatch-block.....	516,268	Mar. 13	877	205	66	1633
Hartz, Henry V., Cleveland, Ohio. Pulley-block.....	527,425	Oct. 16	1228	302	69	256
Hartz, Henry V., Cleveland, Ohio. Tackle-block.....	527,490	Oct. 16	1338	326	69	278
Hartzell, Alfred E., Norman, Okla. Ter. Ribbon-holder.....	516,051	Mar. 6	519	121	66	1549
Hartzell, James N., Cape Girardeau, Mo. Rotary steam-engine.....	523,280	July 17	1915	482	68	391
Harvey, Amasa, Minneapolis, Minn., assignor of one-half to Twin City Iron Works, of Minnesota. Friction-clutch.....	520,109	May 22	2044	499	67	961
Harvey, Charles H. (See Scott, Harvey, and Scott.)						
Harvey, Cyrus E., Waterloo, Canada. Fire-escape.....	518,920	Apr. 24	2564	634	67	513
Harvey, Edward S. (See Buddle, George T., assignor.)						
Harvey, Elmer E., London, Ohio. Ground-stake.....	516,530	Mar. 13	1322	315	66	1715
Harvey, Francis B., Glen Moore, Pa. Toy.....	530,769	Dec. 11	1226	297	69	1453
Harvey, Frank. (See Hebblewhite and Harvey.)						
Harvey, George, Winnipeg, Canada. Rule and ruling device.....	530,043	Nov. 27	2703	649	69	1192
Harvey, George B. M., New York, N. Y. Fare-box.....	529,383	Nov. 20	1547	369	69	969
Harvey, Isaac, assignor of three-fourths to I. N. Drake, J. M. Yeoman, and J. P. Gross, Hartley, Iowa. Wagon-tire heater.....	530,521	Dec. 11	802	198	69	1378
Harvey, James F. (See Wiley, William A., assignor.)						
Harvey, John F., Johnsonburg, and D. Shields, assignors to M. Griswold, Erie, Pa. Burglar-alarm.....	515,677	Feb. 27	2800	698	66	1426
Harvey, Leopoldina, and J. Amos, assignors of one-third to J. Vorwerk, Los Angeles, Cal. Shoulder and back bracing chair.....	514,189	Feb. 6	357	85	66	920
Harvey, Patrick, Chicago, Ill. Flushing-tank for water-closets.....	514,188	Feb. 6	355	85	66	920
Harvey, Patrick, Chicago, Ill. Water-closet tank.....	516,011	Mar. 6	449	103	66	1536
Harvey, Patrick, Chicago, Ill. Water-closet and tank.....	530,306	Dec. 4	404	102	69	1289
Harvey, Wallace E., <i>et al.</i> (See Lawlor, Sim C., assignor.)						
Harvey, William L., Stanberry, Mo. Ditching-machine.....	515,678	Feb. 27	2800	698	66	1426
Harvey, William L., Stanberry, Mo. Feed-water heater.....	524,590	Aug. 14	1065	263	68	873
Harwood, Thomas T. H., Rockport, Mass. Floating derrick.....	520,676	May 29	3024	731 732	67	1158
Hasbrouck, Frederick, New York, N. Y. Labeling-machine.....	513,784	Jan. 30	3423	844	66	777
Hasbrouck, George G., Nyack, N. Y. Bicycle.....	516,435	Mar. 13	1151	275 276	66	1683
Hasell Perfected Railway Signal Company. (See Thomas, George L., assignor.)						
Haseltine, George. (See Reynolds, Andrew J., assignor.)						
Hasenpflug, John A., assignor to Champion Safety Lock and Novelty Company, Cleveland, Ohio. Sash-lock.....	527,686	Oct. 16	1659	400	69	336
Hasenpflug, John A., assignor to Champion Safety Lock and Novelty Company, Cleveland, Ohio. Sash-lock.....	528,369	Oct. 30	2868	694	69	587
Hasker & Marcuse Manufacturing Company. (See Edgar and Williams, assignors.)						
Haskell, Ezra, Kennebunk, Me. Lunch-box.....	524,499	Aug. 14	918	226	68	846
Haskins, Caryl D., Lynn, assignor to Thomson-Houston Electric Company, Boston, Mass. Cut-out meter.....	518,244	Apr. 17	1399	350	67	288
Haskins, Charles D., Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Ill. Electric-current regulator.....	516,487	Mar. 13	1239	296 297 298	66	1699
Haskins, Charles D., Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Ill. Quadruplex neutral relay.....	523,119	July 17	1629	408	68	340
Haskins, Naaman W., Brooklyn, N. Y. Trolley.....	525,015	Aug. 28	1806	441	68	1037
Haskins, Naaman W., Brooklyn, N. Y. Trolley-wire switch and crossing.....	525,016	Aug. 28	1807	441	68	1037
Hasper, Arend, Westfield, N. D. Spark-arrester.....	519,500	May 8	1013	245	67	743
Hassell, Richard L., Chicago, Ill. Conveyor.....	513,785	Jan. 30	3424	845	66	778
Hassellmann, Max. (See Lamm, Jean, assignor.)						
Hassler, Robert H., Dayton, Ohio. Electrical converter.....	523,572	July 24	2420	607	68	498
Hasson, Seth M., Utica, Pa. Farm-fence lock.....	516,929	Mar. 20	1985	466	66	1854
Hastings, Charles F., <i>et al.</i> (See Fisher, John E., assignor.)						
Hastings, Edwin G., Des Moines, Iowa. Rolling window-screen.....	522,660	July 10	829	207	68	176
Hastings, Frank N., Meriden, Conn. Steam-heated glue-pot.....	519,950	May 15	1766	432	67	895
Hastings, George A., Orange, Mass. Coin-controlled paper-delivering machine.....	523,936	July 31	3082	767 768	68	637
Hastings, James L., assignor to National Heat and Power Company, Philadelphia, Pa. Generator for the manufacture of gas.....	530,944	Dec. 18	1509	358	69	1521
Hastings, Walter W., Jersey City, N. J. Plate for stem-winding watches.....	520,483	May 29	2692	651 652	67	1097
Hatch, Albert H., New York, N. Y. Apparatus for preserving hams, &c.....	522,939	July 10	1308	326	68	263
Hatch, Austin S., Windsor, Canada, assignor of one-half to S. J. Martin, Detroit, Mich. Electric heater.....	515,401	Feb. 27	2363	586	66	1341
Hatch, Charles A., Hartford, Conn. Water-alarm for boilers.....	515,827	Mar. 6	157	38	66	1482
Hatch, Edward N., <i>et al.</i> (See Brown, Norman E., assignor.)						
Hatch, George C., and J. Wenger, Bridgeport, Conn.; said Wenger assignor to said Hatch. Combined miter, level, and square.....	513,183	Jan. 23	2418	584	66	555
Hatch, James B. (See Smith, Wilson R., assignor.)						
Hatcher, Isaiah G., Columbus, Ohio. Shoe last and stand.....	518,602	Apr. 24	2013	500	67	414
Hatfield, Daniel W. (See Murray and Hatfield.)						
Hatfield, George W. (See Murray and Hatfield.)						
Hatfield, James F., Dublin, Ind. Combined grain-cleaner, fanning-mill, and elevator.....	526,623	Sept. 25	2254	539	68	1604

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Hathaway, Edward. (See Laskey, Philip B., assignor.)						
Hathaway, George M., assignor to W. D. Van Horn, Wellsborough, Pa. Padlock	526,650	Sept. 25	2304	551	68	1612
Hathaway, George M., assignor to Ideal Stretcher Company, Wellsborough, Pa. Trousers-stretcher	526,651	Sept. 25	2306	551	68	1613
Hatmaker, Foist, Ithaca, N. Y. Reamer	530,841	Dec. 11	1333	320	69	1473
Hatteberg, Axel K., Marshfield, Wis. Dresser, commode, &c.	514,929	Feb. 20	1582	397	66	1184
Hattenback, David, Sioux City, Iowa. Galvanic ring	530,522	Dec. 11	803	199	69	1378
Hatton, Christopher, London, England. Apparatus for producing and containing aerated liquids	519,604	May 8	1204	290	67	778
Hatzfeld, Richard H., Chicago, Ill. Folding umbrella	529,170	Nov. 13	1162	{ 279 280 }	{ 69 69 }	{ 878 878 }
Haub, Rudolph, Sydney, New South Wales. Car-coupling	515,771	Mar. 6	74	17, 18	66	1467
Hauck, Philip, Philadelphia, Pa. Reel for wire	512,023	Jan. 2	489	116	66	94
Haug, Bernhard, and F. Holler, Philadelphia, Pa. Drawing-pen	519,155	May 1	389	94	67	612
Haug, Charles F., Brooklyn, N. Y. Fender for trolley-cars	530,223	Dec. 4	260	65	69	1262
Haug, Christian. (See Beutelspacher, Henry, assignor.)						
Haug, John, Philadelphia, Pa. Compound engine	516,329	Mar. 13	968	228	66	1650
Haupt, Edward, Phoenixville, Pa. Column for structural metal work	530,044	Nov. 27	2704	650	69	1192
Hanser, Gottfried, assignor of two-thirds to R. Spieck and E. Kreis, New York, N. Y. Removing background from embroidery	525,738	Sept. 11	729	168	68	1297
Hanser, Jacob, Boston, Mass. Heater	514,145	Feb. 6	269	66, 67	66	904
Hanser, Martin, Toledo, Ohio. Fastener for screens or sashes	528,327	Oct. 30	2796	675	69	574
Hausmann, George, Washington, Mo. Hay-rack	522,056	June 26	2326	559	67	1671
Hausmann, Lincoln, Niagara Falls, N. Y. Manufacture of metal goods for artistic purposes	514,070	Feb. 6	148	.....	66	882
Hauss, Michael. (See Hance, Wilkerson K., assignor.)						
Hausshälter, Hngo, Dresden, Germany. Speed and distance measuring and recording apparatus	512,439	Jan. 9	1188	{ 288 289 }	{ 66 66 }	{ 236 236 }
Hausssner, Konrad, Ingolstadt, Germany. Gun-carriage	513,263	Jan. 23	2564	618	66	583
Haustein, Henry, San Francisco, Cal. Ventilating and illuminating vault-cover	512,440	Jan. 9	1196	290	66	238
Havemeyer, Charles W., et al. (See Brown, Samuel, assignor.)						
Haven, De Lancey, Detroit, Mich. Vehicle-brake	512,249	Jan. 2	857	207	66	162
Haven, George F., Brooklyn, N. Y., assignor to Lewis Tool Company, of New York. Pipe-vise	523,311	July 17	1970	495	68	401
Haven, James L. (See Matthews, Edwin S., assignor.)						
Havener, Frank O., Ganley Bridge, W. Va., assignor of one-half to W. E. Douglass, Rome, Ohio. Stave-frame	525,343	Sept. 4	30	7	68	1157
Havens, Edwin S. (See Gregg, Andrew F., assignor.)						
Haverstick, Willard E. (See Pumyea, Edwin A., assignor.)						
Havenstrite, David J. (See Hodges and Havenstrite.)						
Havey, Cornelius M. (See Black and Havey.)						
Havey, Cornelius M., and R. Black, New York, N. Y. Signal for railways	512,441	Jan. 9	1198	290	66	238
Haviland, Frank W., New York, N. Y. Appliance for treatment of the uterus	512,024	Jan. 2	491	117	66	94
Haviland, Frank W., New York, N. Y. Endograph	512,025	Jan. 2	493	117	66	95
Haviland, Frank W., New York, N. Y. Device for rectifying the uterus	512,961	Jan. 16	2087	495	66	421
Haw, William H., Field's Landing, Cal. Fruit-picker	517,041	Mar. 27	2183	518	66	1909
Hawes, Dell M., Ortonville, Minn. Pneumatic tire	526,572	Sept. 25	2175	520	68	1538
Hawes, Willard L., Wakefield, Mass. Piano-action	515,078	Feb. 20	1808	456	66	1225
Hawk, Jacob, Canton, Ohio. Thrashing-machine	521,497	June 10	1345	312	67	1473
Hawk, James W., Webster City, Iowa. Cistern-cleaner	526,077	Sept. 18	1345	305	68	1415
Hawkesworth, Robert W., East Orange, N. J. Contact-trolley	521,163	June 12	730	173	67	1342
Hawkins, B. F., et al. (See Woodall, Charles H., assignor.)						
Hawkins, Cyrus H., Brooklyn, N. Y. Steam steering apparatus	515,772	Mar. 6	76	18	66	1468
Hawkins, Dexter E., North Attleborough, Mass. Light-deflector	518,503	Apr. 17	1851	459	67	370
Hawkins, George C., Marietta, Ohio. Elevator-gate-operating device	517,117	Mar. 27	2326	547	66	1936
Hawkins, George S., and M. Gilmore, Brooklyn, N. Y. Paper-file	511,888	Jan. 2	277	64	66	54
Hawkins, John H., Grabeel, Mo. Road-scraping machine	515,679	Feb. 27	2804	699	66	1427
Hawkins, John K., Mohawk, Tenn. Washboiler	530,842	Dec. 11	1334	320	69	1474
Hawkins, Lorenzo P., Deering, assignor to Goodyear Shoe Machinery Company, Portland, Me. Sole-slitting machine	514,364	Feb. 6	658	167	66	977
Hawkins, Millard J., Newport, N. Y. Machine for soldering caps on cans	520,523	May 29	2755	{ 666 667 }	{ 67 67 }	{ 1108 1108 }
Hawkins, William H., Springfield, Mass. Gutter leader and strainer	524,668	Aug. 14	1198	293	68	898
Hawkins, William M., Trenton, N. C. Back-band hook	520,162	May 22	2155	525	67	980
Hawkyard, John, Saddleworth, assignor to J. Braddock, Oldham, England. Station gas-governor	518,143	Apr. 10	1206	302	67	236
Hawkyard, John, Saddleworth, assignor, by mesne assignments, to W. C. Parkinson, Cottage Lane, City Road, England. Coin-freed gas-meter	523,637	July 24	2328	{ 634 635 }	{ 68 68 }	{ 518 518 }
Hawley, Charles G., et al. (See McCarrier, John T., assignor.)						
Hawley, De Witt, Rochester, N. Y. Tailor's measuring implement	518,947	May 1	20	6	67	540
Hawley, James M., Odin, Ill. Spoke and tire tightener	525,981	Sept. 11	1150	261	68	1373
Hawley, Joseph C., and W. J. Black, Duncannon, Pa. Conduit-railway trolley	530,688	Dec. 11	1093	265	69	1429
Haworth, Clement V. (See Kleiner, Bokmayer, and Hoffmann, assignors)						
Haworth, John. (See Hanawalt, Daniel R., assignor.)						
Haws, Samuel R. (See Potts, William Q., assignor.)						
Hawthorn, John, Trenton, N. J. Pottery-kiln	515,221	Feb. 20	2047	510	66	1269
Hawver, Samuel, University, Cal. Folding bed	523,993	Aug. 7	26	6	68	667
Hay, Francis M., Erie, assignor of one-half to J. M. McKerrow, Oil City, Pa. Bit-stock	526,314	Sept. 18	1723	407	68	1493
Hay, Frank D., assignor to himself and R. J. August, Keokuk, Iowa. Animal-trap	518,841	Apr. 21	2427	602	67	446
Hay, George, Picton, Canada. Chalk-sharpener	517,922	Apr. 10	829	208	67	174
Hay, Robert. (See Lowther, Toal, and Hay.)						
Hay, Robert, Summit, N. J. Means for displaying advertising-cards	514,072	Feb. 6	151	36	66	883
Hay, William, and W. M. Kearns, assignors of one-third to C. H. Joy, Kansas City, Mo. Air and gas mixing apparatus	518,451	Apr. 17	1768	438	67	356
Hay, William L. (See Johnson and Hay.)						
Hay, William L., and R. L. Johnston, Franklin, Tenn. Mowing-machine attachment	518,842	Apr. 24	2429	602	67	487
Haydel, Albert. (See Danos and Haydel.)						
Hayden, Everett, Washington, D. C. Fly-gate for attachment to screens, &c.	524,437	Aug. 14	822	201	68	829
Hayden, Henry A., Jersey City, N. J., assignor to S. Chittick, New York, N. Y. Coin-tray	518,948	May 1	21	6	67	540
Hayden, Henry A., Jersey City, N. J., assignor of one-half to B. T. Kearns, New York, N. Y. Bottle	525,543	Sept. 4	383	93	68	1222
Hayden, Hiram W., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Wick-raiser for lamps	513,638	Jan. 30	3193	743	66	735

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Hayden, James T., assignor to Crane Company, Chicago, Ill. Air-pump governor	513,106	Jan. 23	2291	554	66	529
Hayden, James T., assignor to Crane Company, Chicago, Ill. Steam-actuated valve for pumps	519,843	May 15	1594	390	67	864
Hayden, Mortimer M., New York, N. Y. Galvanic battery	528,669	Nov. 6	267	65	69	693
Hayden, William W., Newark, N. J. Combined nail-file and scissors	515,828	Mar. 6	158	38	66	1483
Hayden, Zerah L., Carroll, Iowa. Hoot-gage	513,574	Jan. 30	3086	759	66	716
Hayden, Zerah L., Cedar Rapids, Iowa. Shears	523,984	Aug. 7	28	7	68	668
Haydon, Blain B., New Castle, Ky. Car-coupling	530,843	Dec. 11	1335	320	69	1474
Hayes, Calvin Q., Chicago, Ill. Hydrant	525,268	Aug. 28	2236	545	68	1113
Hayes, Dennis J. (See Moehn and Graves, assignors.)						
Hayes, E. K. (See Dack, Frederick E., assignor.)						
Hayes, Edward, Rochester, N. Y. Water-heater	517,572	Apr. 3	256	59, 60	67	50
Hayes, Eli B., Oshkosh, Wis. Tenoning-machine	525,812	Sept. 11	853	194 195	68	1319
Hayes, Eugenio K. (See Dodd, John A., assignor.)						
Hayes, Eugenio K. (See Swickard, John W., assignor.)						
Hayes, Eugenio K., Galva, Ill. Wagon end-gate	517,649	Apr. 3	389	93, 94	67	75
Hayes, Eugenio K., Galva, Ill. Rotating grain-meter	517,650	Apr. 3	391	94	67	75
Hayes, George, New York, N. Y. Metallic lathing	519,952	May 15	1768	433	67	895
Hayes, George, New York, N. Y. Metallic lathing	521,237	June 12	860	202	67	1366
Hayes, George, New York, N. Y. Metallic lathing	521,498	June 19	1347	312 313	67	1474
Hayes, George, New York, N. Y. Metallic lathing	521,499	June 19	1348	313	67	1474
Hayes, George, New York, N. Y. Metallic lathing. (Reissue)	11,448	Oct. 23	2460	595	69	498
Hayes, George B. (See Henderson and Kenngott, assignors.)						
Hayes, Hardy L., St. Joseph, Mo. Brick-kiln	516,306	Mar. 13	929	218	66	1643
Hayes, James. (See Fyfe, John C., assignor.)						
Hayes, James P., Mount Vernon, N. Y. Folding bed	520,779	June 5	30	6, 7	67	1202
Hayes, John J., Flushing, N. Y. Method of and apparatus for treating brewers' grains	511,949	Jan. 2	378	88	66	72
Hayes, John J., Flushing, assignor to John J. Hayes Machine Company, Brooklyn, N. Y. Press for veneers or other articles	516,012	Mar. 6	451	103 104	66	1536
Hayes, John W., New Brunswick, N. J. Apparatus for the manufacture of gas	515,680	Feb. 27	2805	699 700	66	1427
Hayes, John W., Jr., Chester, Ill. Wagon-box lifter	530,770	Dec. 11	1227	297 298	69	1453
Hayes, Lemuel W., assignor of one-half to C. S. Paisler, New Bedford, Mass. Means for suspending hose in towers	530,415	Dec. 4	590	146	69	1323
Hayes, Lewis S., Cortland, N. Y. Type-writer cabinet	521,956	June 26	2157	518	67	1641
Hayes, Lewis S., Cortland, N. Y. Type-writer cabinet	521,957	June 26	2159	518	67	1641
Hayes, Lynn A., deceased, Bolivar, Mo.; M. C. Hayes, administratrix. Plume-fastener for helmets	521,213	June 12	816	192	67	1358
Hayes Manufacturing Company. (See Jarvis, Charles M., assignor.)						
Hayes, Margaret C., administratrix. (See Hayes, Lynn A.)						
Hayes, Milo E. (See Small, Robert H., assignor.)						
Hayes, Rebecca H., Galveston, Tex. Cooking-stove	521,410	June 12	1165	277	67	1425
Hayes, Thomas A., Waterford, N. Y. Friction-clutch	519,951	May 15	1767	433	67	895
Hayford, Arthur G. (See Hayford, Eugene and A. G.)						
Hayford, Eugene and A. G., Spokane, Wash. Lifting or log jack	525,706	Sept. 11	675	156	68	1287
Haygood, John F., and J. H. Roach, near Watkinsville, Ga. Manure-pulverizer	519,629	May 8	1253	301	67	786
Hayley, Hugh S., et al. (See Johnson, William C., assignor.)						
Hayn, Friedrich W. N. E., assignor to Siemens & Halske, Berlin, Germany. Self-lubricating contact-bar for electric railways	530,416	Dec. 4	591	147	69	1323
Haynes, Daniel, Sealy, Tex., assignor of one-half to R. W. Hill, St. Louis, Mo. Cotton-gin	524,170	Aug. 7	349	82	68	725
Haynes, Irving S., New York, N. Y. Duplicating apparatus	530,771	Dec. 11	1229	298	69	1454
Hays, Edward W., Vandiver, and E. A. Thuston, Avondale, Ala. Tire-tightener	522,162	June 26	2509	602	67	1706
Hays, Elijah, Warsaw, Ind. Nut-lock	513,393	Jan. 23	2759	672	66	620
Hays, Elijah, Warsaw, Ind. Vehicle-brake	513,394	Jan. 23	2760	673	66	620
Hays, Elijah, Warsaw, Ind. Car-coupling	513,395	Jan. 23	2761	673	66	621
Hayward, Dallas B., Easton, Md. Electrical conductor	514,460	Feb. 13	798	205	66	1022
Hayward, Eugene, Chicago, Ill. Ironing-table	524,275	Aug. 7	515	120	68	754
Hayward, Jacob L., Wadeville, N. C., and A. W. Robinson, Milwaukee, Wis. Amalgamator	523,400	July 24	2118	532	68	444
Hazard, Dexter, Marquette, Mich. Machine for sharpening saw-teeth	529,769	Nov. 27	2243	534 535	69	1103
Hazard, Dexter, assignor of one-half to F. O. Clark, Marquette, Mich. Car-brake	516,636	Mar. 13	1494	356	66	1747
Hazard, Dexter, assignor of one-half to F. O. Clark, Marquette, Mich. Saw-sharpening machine	518,187	Apr. 10	1280	324	67	249
Hazard, Dexter, assignor of one-half to F. O. Clark, Marquette, Mich. Saw	521,343	June 12	1064	249	67	1405
Hazard, Dexter, assignor of one-half to F. O. Clark, Marquette, Mich. Converting reciprocatory into rotary motion	529,859	Nov. 27	2369	567	69	1128
Hazard, Dexter, assignor of one-half to F. O. Clark, Marquette, Mich. Device for swaging saw-teeth	529,860	Nov. 27	2371	567	69	1128
Hazard, Frederick J. H., Toronto, Canada. Bath-tub	512,701	Jan. 16	1611	387	66	331
Hazard, Frederick J. H., Toronto, Canada. Pneumatic cash-carrier apparatus	530,772	Dec. 11	1231	298 299	69	1454
Hazelton, Norman N., Lamoni, Iowa. Weather-strip	514,365	Feb. 6	659	167	66	977
Hazlehurst, Edward, Oldham, England. Bung-closure	517,160	Mar. 27	2397	565	66	1949
Head, William W., Pleasant View, Tenn. Floor-scrubbing machine	526,315	Sept. 18	1725	407 408	68	1493
Headen, Thomas B., Lawrence, Kans. Reversing-valve for engines	526,707	Oct. 2	62	16	69	14
Heald, William. (See Riggs, George P., assignor.)						
Healey, Charles, et al. (See Tisdale, Charles D., assignor.)						
Healey, Edward, R. Williams, and E. Longmeyer, St. Louis, Mo. Smokeless boiler-furnace	522,368	July 3	328	84, 85	68	65
Healey, Reuben H., London, England. Apparatus for drying matrices	520,642	May 29	2950	714	67	1145
Healy, James J., Chicago, Ill. Hand-truck	525,707	Sept. 11	676	157	68	1288
Heastings, Elcazer F. A., Avalon, Pa. Trolley-stand	522,057	June 26	2327	559	67	1672
Heaston, John, Kansas City, Mo. Baling-press	512,294	Jan. 9	933	227	66	189
Heath, Alfred H., et al. (See Watson, Nelson M., assignor.)						
Heath, Alfred R., Covington, Ind. Car-coupling	519,575	May 8	1159	279	67	770
Heath, John M., Talbotton, Ga. Cash-register	530,045	Nov. 27	2705	650	69	1192
Heath, Mark A., Providence, R. I. Bale-covering	518,949	May 1	22	6	67	540
Heath, Mary, New York, N. Y. Abdominal bandage	514,930	Feb. 20	1583	398	66	1185

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Heath, Ned F. (See Free and Heath.)						
Heath Rail Joint Company. (See Caldwell, Edward P., assignor.)						
Heath, Stephen A. D., Big Rapids, Mich. Safety-cock for air brakes and signals	513,505	Jan. 30	2959	728	66	693
Heath, Walter A., assignor to himself, E. F. Braren, and R. Philpott, Chicago, Ill. Valve for air-compressors	527,787	Oct. 23	1833	441	69	385
Heath, William B., et al. (See Watson, Nelson M., assignor.)						
Heatherington, John H., Shelton, Nebr. Grain-shoveling machine	516,721	Mar. 20	1641	390	66	1790
Heatley, Herbert. (See Von Bokern, William, assignor.)						
Heaton, John S., Shelbyville, Ky. Water-heater	521,314	June 12	998	235	67	1391
Heaton, John S., assignor of one-half to W. A. McGrath and M. L. S. Buckener, Shelbyville, Ky. Car-coupling	529,443	Nov. 20	1670	397	69	990
Heaton Peninsular Button Fastener Company. (See Barber and Whitehead, assignors.)						
Heaton, Robert. (See Haggas and Heaton.)						
Heaton, Rolla, Canton, Mo. Post-driver	516,649	Mar. 20	1524	{ 362 363 }	{ 66 66 }	{ 1768 1768 }
Heaton, Ryan, Howell's Depot, N. Y. Felting-machine	527,223	Oct. 9	998	242	69	199
Hebard, Charles E., Grand Rapids, Mich., assignor of one-fourth to H. C. Keith, Rhineland, Wis. Electric ertine Battery	527,788	Oct. 23	1834	441	69	386
Hebard, Newton, Anemia, assignor of one-half to C. M. Dennison, Brooklyn, N. Y. Envelope and stationery case	519,673	May 8	1316	315	67	798
Hebb, William, Cambridge, Vt. Cleaning-machine	526,970	Oct. 2	493	121	69	92
Hebbard, Albert H. and C. C., assignors of one-third to W. H. Rankin, Elizabeth, N. J. Flying-target trap	527,854	Oct. 23	1951	{ 467 468 }	{ 69 69 }	{ 405 405 }
Hebbard, Charles C. (See Hebbard, Albert H. and C. C.)						
Hebblethwaite, John H., Rock Falls, Ill. Combined hammer and nail-puller	529,324	Nov. 20	1549	376	69	969
Hebblethwaite, John H., assignor of one-half to J. Wright, Rock Falls, Ill. Nut-lock	522,661	July 10	831	207	68	176
Hebblewhite, Thomas P., and F. Harvey, Buffalo, N. Y. Polishing-mitt and dauber	518,144	Apr. 10	1207	303	67	236
Heddon, William, Boston, Mass. Method of and machine for finishing cloth	513,926	Jan. 30	3641	898	66	821
Heberling, John, Rochester, N. Y. Loomer for sewing-machines	514,653	Feb. 13	1130	282	66	1084
Hebert, Henry B., New York, N. Y. Grinding-mill	530,945	Dec. 18	1513	{ 358 359 }	{ 69 69 }	{ 1521 1521 }
Heckel, George. (See Günther, Franz, assignor.)						
Heckert, William, Findlay, assignor of one-half to B. Butterworth, Cincinnati, Ohio. Hot-air heater	526,316	Sept. 18	1727	408	68	1494
Heckert, William, and W. P. Rowland, Findlay, Ohio. Process of and apparatus for making gas	527,789	Oct. 23	1835	441	69	386
Hedden, Aaron C., Ithaca, N. Y. Fruit-picker	516,889	Mar. 20	1913	452	66	1842
Hedderick, Edward and L., Pettit, Ind. Sawing-machine	525,544	Sept. 4	324	93	68	1222
Hedderick, Leander. (See Hedderick, Edward and L.)						
Heddy, Miller P., Hillburn, N. Y. Bottling-machine	519,060	May 1	197	46, 47	67	574
Hedge, Silas D., assignor to W. Cobb, Jr., Brockton, Mass. Rasp	524,141	Aug. 7	302	71	68	717
Hedgeland, Frederick W., Chicago, Ill. Machine for stringing pianos	520,595	May 29	2878	696	67	1132
Hedges, John W. (See Bundren and Hedges.)						
Hedges, Samuel P., Greenport, N. Y. Dredger	514,829	Feb. 13	1420	359	66	1140
Hedges, Samuel P., Greenport, N. Y. Dredger	523,891	July 31	2994	745	68	620
Heene, George W., Brooklyn Village, assignor to Cleveland Time Register Company, Cleveland, Ohio. Employe's time-recorder	530,340	Dec. 4	468	{ 117 118 }	{ 69 69 }	{ 1299 1299 }
Heermans, Sylvanus. (See Thomson, William B., assignor.)						
Heerwagen, Paul M., Little Rock, Ark. Decorating material	522,369	July 3	330	85	68	65
Heffner, George, Clifton, Ky. Low-pressure alarm	525,206	Aug. 28	2147	524	68	1096
Heffner, James, and A. E. Disher, New Weston, Ohio. Ice-tongs	525,076	Aug. 28	1924	471	68	1058
Heffron, Isaac, Galveston, Tex. Grease-trap	519,501	May 8	1614	245	67	744
Hefner-Altenack, Friedrich von, assignor to Siemens & Halske, Berlin, Germany. Electrical registering device	513,612	Jan. 30	3144	772	66	726
Hefner-Altenack, Friedrich von, assignor to Siemens & Halske, Berlin, Germany. Carbon switch	520,263	May 22	2329	565	67	1012
Hefner, John M., Marietta, Tex. Gate	528,876	Nov. 6	650	155	69	765
Hege, Constantine A., Salem, N. C. Machine for hulling coffee or for other purposes	512,819	Jan. 16	1838	{ 435 436 }	{ 66 66 }	{ 374 374 }
Hege, Constantine A., Salem, N. C. Machine for hulling coffee or for other purposes	512,881	Jan. 16	1954	{ 463 464 }	{ 66 66 }	{ 397 397 }
Hege, Gustavus A. (See Krehbiel and Hege.)						
Hegelein, John C., New York, N. Y. Photographic camera	524,142	Aug. 7	302	71, 72	68	717
Hegelein, John C., New York, N. Y. Camera-shutter	524,143	Aug. 7	304	72	68	718
Hegenscheidt, Wilhelm, Ratibor, Germany. Lock-binge	529,171	Nov. 13	1164	280	69	878
Heggem, Charles O., assignor to Russell & Co., Massillon, Ohio. Piston-head for steam-engines	514,621	Feb. 13	1080	270	66	1074
Heggem, Charles O., assignor to Russell & Co., Massillon, Ohio. Pneumatic shears	527,790	Oct. 23	1836	441	69	386
Heggem, Charles O., assignor to Russell & Co., Massillon, Ohio. Traction-engine	529,490	Nov. 20	1757	417	69	1005
Hehdsürfer, Joseph, Newark, N. J. Meat-tendering machine	525,077	Aug. 28	1925	{ 471 472 }	{ 68 68 }	{ 1058 1058 }
Heibling, Joseph, Paris, France. Making potash alum and alumina	521,712	June 19	1703	400	67	1540
Heidel, Gustavos, St. Louis, Mo. Gas-burner	520,309	May 22	2397	582	67	1026
Heidelberg, Samuel R., Palestine, Tex. Draw-bar for locomotives	512,375	Jan. 9	1062	259	66	212
Heidsieck, Henry A., St. Louis, Mo. Garbage-receptacle	525,103	Aug. 28	1973	483	68	1066
Heil, Albrecht, Crumbach, Germany. Galvanic element	523,892	July 31	2995	745	68	620
Heil, Charles E., Cleveland, Ohio. Sash-holder	517,695	Apr. 3	472	113	67	91
Heil, Henry, St. Louis, Mo. Treating metal castings	515,222	Feb. 20	2049	.....	66	1269
Heiland, Lawrence. (See Bronson and Heiland.)						
Heilmann, Frederick W., Newark, N. J., assignor to J. F. Kitchell Manufacturing Company of New Jersey. Satchel or bag frame	514,890	Feb. 13	1523	381	66	1158
Heilmann, Frederick W., Newark, assignor to J. F. Kitchell Manufacturing Company, Harrison, N. J. Bag-frame	522,832	July 10	1138	282	68	230
Heilmann, Jean J., Belfort, France. Electrical propulsion of railway-cars	519,674	May 8	1317	{ 316 317 }	{ 67 67 }	{ 798 798 }
Heilmann, Jean J., Paris, France. Electric locomotion on railways	527,244	Oct. 9	924	223	69	187
Heilmann, Richard, Stuttgart, Germany. Kiln for burning pottery, clay, &c.	523,469	July 24	2250	{ 565 566 523 }	{ 68 68 68 }	{ 466 466 447 }
Heilmann, Rudolph, New Brunswick, N. J. Wall-paper machine	527,976	Oct. 23	2178	{ 524 525 }	{ 69 69 }	{ 447 447 }
Heilrath, John, Sacramento, Cal. Buggy-top rest	525,545	Sept. 4	385	94	68	1222
Heim, Adam, assignor of seven-sixteenths to G. W. Heim, Brownsville, Ind. Machine for attaching address-labels	512,295	Jan. 9	936	{ 227 228 }	{ 66 66 }	{ 189 189 }

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Heim, George W. (See Heim, Adam, assignor.)						
Heim, Samuel S., New York, N. Y. Railway switch and signal.	521,611	June 19	1538	360	67	1507
Heim, Sebastian, Philadelphia, Pa. Counting-machine.	530,224	Dec. 4	262	65	69	1263
Heimann, Jean M., Sandfeld, near Dornap, Germany. Suspendable match-box.	531,185	Dec. 18	1944	462	69	1600
Heimann, Salomon, New York, N. Y. Electrode for arc lamps.	517,042	Mar. 27	2159	518	66	1910
Heimbaugh, Charles C., Mokenca, Ill. Boat.	520,823	June 5	124	27	67	1220
Heine, August, Silver Creek, N. Y. Dust-collector.	523,652	July 24	2553	640	68	523
Heinebach, Herman, Chicago, Ill. Type-casting machine.	517,340	Mar. 27	2694	{ 632 633 }	66	2008
Heinemann, Theodore W. (See Baner and Heinemann.)						
Heinicke, Gustav, Berlin, Germany. Rotary motor.	518,145	Apr. 10	1208	303	67	236
Heinrich, Charles, New York, N. Y. Wrist-supporting hand-guide for pianos or organs.	519,675	May 8	1319	317	67	799
Heinrich, Oswald, Mittelwalde, assignor of one-half to M., P., and S. Goldschmidt, Breslau, Germany. Self-fastening box.	530,225	Dec. 4	265	65, 66	69	1263
Heintz, Michel, Detroit, Mich. Cash register and indicator.	520,049	May 22	1934	{ 474 475 }	67	941
Heinze, George C. (See Leacock, David, assignor.)						
Heinze, John O., Jr., Lynn, Mass. Automatic electrical boot-blackening machine.	527,977	Oct. 23	2182	525	69	448
Heinzerling, Christian, Frankfort-on-the-Main, Germany. Tawing hides.	528,162	Oct. 30	2506		69	522
Heiser, William, Buffalo, N. Y. Elastic washer.	524,851	Aug. 21	1516	370	68	968
Heisler, Charles L., Philadelphia, Pa., assignor of two-thirds to H. Kranz and H. Aletter, Berlin, Canada. Boot-treating machine.	512,193	Jan. 2	771	188	66	146
Heisler Electric Company. (See Smith, Walter F., assignor.)						
Heisley, Lillian K., et al. (See Keller, Jacob, assignor.)						
Heissenberger, John, Athol, Mass. Table.	516,013	Mar. 6	453	{ 104 105 }	66	1536
Heiz, Emil, Paterson, N. J. Sand-box for cars.	529,444	Nov. 20	1671	398	69	990
Helander, Alexander, Los Angeles, Cal. Hospital-bed.	522,342	July 3	286	75	68	57
Held, August S., assignor to Stover Manufacturing Company, Freeport, Ill. Spring-hinge.	515,334	Feb. 27	2253	558	66	1320
Held, Hugo, et al. (See Zanger, Theodor, assignor.)						
Hellberg, William, Fargo, N. D. Watchcase-pendant and bow-fastener.	513,013	Jan. 16	2169	517	66	436
Heller, Adolf, assignor to Siemens & Halske, Berlin, Germany. Air-pump.	530,106	Dec. 4	52	14, 15	69	1225
Heller, Peter J., Montclair, N. J. Harrow.	527,978	Oct. 23	2185	526	69	449
Hellings, John, Philadelphia, Pa. Tobacco-cutter.	528,540	Nov. 6	28	8	69	651
Hellman, Otto, et al. (See Buckley, John P., assignor.)						
Hellmich, Paul, Benthon-on-the-Oder, Germany. Boiler-feeder.	519,709	May 15	1385	334	67	824
Helm, Thomas W., assignor to Carter Machine Company, Danville, Va. Machine for treating heavily-sweetened tobacco-fillers.	525,898	Sept. 11	1017	229	68	1349
Helmer, James L., Rome, N. Y. Cheese-press.	525,601	Sept. 4	470	{ 112 113 }	68	1239
Helmer, William. (See Macksey and Helmer.)						
Helmer, William. (See Macksey, Helmer, and Barton.)						
Helmer, William. (See Tufts and Helmer.)						
Helmers, Ludwig O., assignor to Ichthyol-Gesellschaft, Cordes, Hermann & Company, Hamburg, Germany. Purifying sulfur compounds of mineral oils.	525,784	Sept. 11	805		68	1311
Helmholtz, Richard, Königsberg, assignor to Locomotiv-Fabrik Krauss & Company, Actien-Gesellschaft, Munich, Germany. Locomotive running-gear.	514,320	Feb. 6	594	150	66	964
Helmholtz, Richard, Königsberg, assignor to Locomotivfabrik Krauss & Company Aktien-Gesellschaft, Munich, Germany. Locomotive.	516,436	Mar. 13	1153	276	66	1683
Helwig, William J. (See Rogers, George A., assignor.)						
Heme, Claude, Bay City, Mich. Stovepipe-fastener.	518,692	Apr. 24	2170	543	67	442
Hemert, Herman J. von, et al. (See Coleman and Sansure, assignors.)						
Hemingway, Henry W., London, England. Manufacturing oxide of iron.	513,679	Jan. 30	3261	801	66	747
Hemingway, Henry W., London, England. Furnace.	513,680	Jan. 30	3262	{ 801 802 }	66	747
Hemingway Manufacturing Company. (See Baxter and Stickney, assignors.)						
Hemingway, Washington. (See Senior, Wood, Hughes, and Hemingway.)						
Hemje, Charles, Annapolis, Md. Lamp-heater.	522,662	July 10	832	208	68	176
Hemman, Richard C. (See Muslar, Nelson, assignor.)						
Hemme, William, Michigan Valley, Kans. Swinging gate.	516,052	Mar. 6	519	121	66	1549
Hemmer, Leopold P., Aix-la-Chapelle, Germany. Plastic material for replacing wood, metal, stone, &c.	520,824	June 5	125		67	1220
Hemp, Lewis W. and W. H., St. Louis, Mo. Minnow-bucket.	523,470	July 24	2253	566	68	466
Hemp, William H. (See Hemp, Lewis W. and W. H.)						
Hemphill, James. (See Fawell and Hemphill.)						
Hemphill, James, J. F. Wilcox, and J. Fawell, Pittsburg, Pa. Rolling-mill.	525,207	Aug. 28	2149	{ 524 525 390 391 392 393 }	68	1096
Hemphill, Joshua D., Huntington, assignor to C. B. Alling, Derby, Conn. Circular-knitting machine.	516,722	Mar. 20	1643	{ 390 391 392 393 }	66	1791
Hemphill, Joshua D., Huntington, assignor to C. B. Alling, Birmingham, Conn. Draw-cam for stocking-knitting machines.	516,723	Mar. 20	1658	393	66	1792
Hempler, Henry H., Washington, D. C. Connecting-spring for eyeglass-frames.	515,146	Feb. 20	1923	482	66	1247
Hemsley, Alexander, Philadelphia, Pa. Photograph flash-lamp.	525,899	Sept. 11	1019	230	68	1349
Hemsley, Alexander, Philadelphia, Pa. Flash-light compound.	528,515	Oct. 30	3117		69	632
Hemsteger, Ida M., Chicago, Ill. Protector for blisters, poultices, &c.	525,546	Sept. 4	387	94	68	1223
Henck, John B., Jr., Brooklyn, N. Y. Electrical connector.	526,078	Sept. 18	1316	305	68	1415
Henck, John F. W., Bridgeport, Mich. Potato-digger.	512,442	Jan. 9	1200	290	66	239
Hendee, Alonzo, Columbus, Ohio. Car-brake.	512,376	Jan. 9	1065	260	66	212
Hendee, George W., et al. (See Boomhower, Eli B., assignor.)						
Henderson, Adoniram J., Toronto, Canada. Cinder-sifter.	521,344	June 12	1066	249	67	1405
Henderson, Albert H. (See Scott, Gordon J., assignor.)						
Henderson, Alexander T., Detroit, Mich. Hot-water heating apparatus.	520,677	May 29	3025	732	67	1158
Henderson-Ames Company. (See Bickerstaff, Samuel N., assignor.)						
Henderson, Arthur J., London, England. Machine for breaking up road-crusts.	513,708	Jan. 30	3316	819	66	758
Henderson, David, assignor to himself, D. J. McKay, and J. C. Jenkins, Central City, Colo. Machine for perforating sheet metal.	524,203	Aug. 7	403	96	68	735
Henderson, David S. (See Wilson, William S., assignor.)						
Henderson, Edward E., Sanford, Fla. Wagon running-gear.	529,734	Nov. 27	2156	{ 514 515 }	69	1057
Henderson, Francis. (See Henderson, Henry, assignor.)						
Henderson, Harry. (See Baynes and Henderson.)						
Henderson, Henry, Buffalo, N. Y., assignor to F. Henderson, Philadelphia, Pa. Nut-lock.	522,562	July 3	658	168	68	129

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Henderson, Henry, and L. J. Kenngott, assignors of one-third to G. B. Hayes, Buffalo, N. Y. Pattern for casting pipe.....	516,972	Mar. 20	2054	486	66	1668
Henderson, James. (See Van Everen and Henderson.)						
Henderson, James P. (See Mandel and Henderson.)						
Henderson, John H. (See Schutz and Henderson.)						
Henderson, John W., Philadelphia, Pa. Electric motor or dynamo-electric machine.....	517,105	Mar. 27	2306	543	66	1932
Henderson, Norman O., assignor to Eagle Manufacturing Company, Davenport, Iowa. Hay-loader.....	515,773	Mar. 6	78	18, 19	66	1468
Henderson, Robert, New York, N. Y. Advertising or other sign.....	530,226	Dec. 4	266	66	69	1263
Henderson, Thomas A., Bucyrus, Ohio. Locomotive-boiler.....	515,223	Feb. 20	2049	510	66	1269
Henderson, William C. (See Henderson, William M. and W. C.)						
Henderson, William M., Philadelphia, Pa. Steam-engine indicator.....	528,226	Oct. 30	2622	633	69	543
Henderson, William M. and W. C., Philadelphia, Pa. Electric switch for railways.....	514,850	Feb. 13	1400	367	66	1147
Henderson, William T. (See Kemp, Solomon M., assignor.)						
Hendey, Henry J., assignor to Hendey Machine Company, Torrington, Conn. Suspension metal-shaper.....	517,612	Apr. 3	316	74, 75	67	62
Hendey, Henry J., assignor to Hendey Machine Company, Torrington, Conn. Combination metal-shaper.....	517,613	Apr. 3	319	75, 76	67	62
Hendey Machine Company. (See Champlin, Amos F., assignor.)						
Hendey Machine Company. (See Hendey, Henry J., assignor.)						
Hendey Machine Company. (See Norton, Wendell P., assignor.)						
Hendrick, Robert, Chicago, Ill. Unicycle.....	520,678	May 29	3027	733	67	1158
Hendrick, Joel H., Springfield, and A. H. Fay, Chicopee, assignors to Warwick Cycle Manufacturing Company, Springfield, Mass. Brake for velocipedes.....	526,317	Sept. 18	1731	408	68	1495
Hendrick, William H., assignor to N. O. Nelson Manufacturing Company, St. Louis, Mo. Table, sink, &c.....	517,005	Mar. 20	2107	499	66	1878
Hendricks, Arthur J., and S. Forsythe, Sterling Valley, N. Y. Grain-elevator.....	530,267	Dec. 4	336	82	69	1277
Hendricks, George B. (See Chollar, Benjamin F., assignor.)						
Hendricks, Samuel B., Jackson, Mich. Automatic band-cutter.....	511,841	Jan. 2	150	38	66	31
Hendrickson, William P. (See Shidler and Hendrickson.)						
Hendryx, Andrew B., New Haven, Conn. Duplex bird-cage spring.....	528,721	Nov. 6	344	83	69	709
Heneault, Narcisse and T., Chicago, Ill. Vegetable-slicer.....	521,540	June 19	1414	328	67	1425
Heneault, Theresia. (See Heneault, Narcisse and T.)						
Henley, Henry C., St. Louis, Mo. Hanger for electric lamps.....	522,896	July 10	1232	306	68	249
Henley, Isaac H., Straughn, Ind. Fodder-tying device.....	525,417	Sept. 4	171	44	68	1182
Henley, Micajah C., Richmond, Ind. Lawn-mower.....	518,670	Apr. 24	2137	534 } 535 }	67	436
Henley, Micajah C., Richmond, Ind. Boiler-tube cleaner.....	512,995	May 1	94	22, 23	67	553
Henley, Micajah C., and J. P. Fulgham; said Fulgham assignor to E. R. Fulgham, Richmond, Ind. Meter.....	527,979	Oct. 23	2186	526	69	449
Henley, William J., Syracuse, N. Y. Adjustable pattern for curvilinear designs.....	526,900	Oct. 2	388	96, 97	69	72
Henn, Edwin C., et al. (See Hakewessell, Reinhold, assignor.)						
Henn, Edwin C., Bloomfield, assignor, by mesne assignments, to himself, H. S. Fuller, N. F. Miller, W. J. Gabb, and R. Hakewessell, Hartford, Conn. Screw-making machine.....	530,180	Dec. 4	178	45, 46	69	1247
Hennefeld, Albert, C. Dehner and C. H. Van Nese, Colorado Springs, Colo. Section-insulator.....	529,616	Nov. 20	1963	467	69	1043
Hennemann, John, assignor of one-half to R. E. Stupe, Chicago, Ill. Enamel for coating sheet metal, &c.....	517,454	Apr. 3	71	231 } 232 }	67	16
Hennessey, Thomas B., St. Louis, Mo. Casket-trimming table.....	517,976	Apr. 10	925	232 }	67	189
Hennessey, Thomas, Grand Forks, N. D. Gas-retort.....	531,530	Dec. 25	2565	614	69	1731
Henni, Frederik. (See Storz, Sorg, and Henni.)						
Henning, James. (See Kirby and Henning.)						
Henning, Otto, assignor to Grusonwerk, Magdeburg-Buckau, Germany. Machine for forming screw-threads.....	518,146	Apr. 10	1210	303	67	237
Henninger, David P., St. Joseph, Mo. Fence.....	514,366	Feb. 6	661	167	66	977
Hennetty, James, assignor of one-half to J. Niven, Staples, Minn. Thill-coupling.....	525,677	Nov. 6	268	66	69	694
Henriod-Bachni, Charles E., Bienne, Switzerland. Watchcase-turning machine.....	530,227	Dec. 4	268	66, 67	69	1264
Henry, Addis M., White Sulphur Springs, Mont. Pen.....	519,953	May 15	1770	433	67	896
Henry, Archie J., Watertown, N. Y. Time-check receiver.....	520,848	June 5	171	37	67	1228
Henry, Arthur G. (See Funk, William R., assignor.)						
Henry Disston & Sons. (See Cantz, Charles W., assignor.)						
Henry Disston & Sons. (See Odgers, Matthew, assignor.)						
Henry, Edward, Jacksonville, Ill. Filter for tanks of street-sprinklers, water-tanks, boilers, reservoirs, meters, &c.....	526,922	Oct. 2	427	105	69	80
Henry, F. L. (See Miller, Hezekiah, assignor.)						
Henry, George B., Hartford, Conn. Secondary cell or battery.....	517,455	Apr. 3	71	15	67	16
Henry, John C., Westfield, N. J. Motor-generator.....	512,820	Jan. 16	1844	436	66	376
Henry, John C., Westfield, N. J. Motor-armature.....	516,807	Mar. 20	1776	419	66	1814
Henry, John C., Westfield, N. J. Overhead electric railway.....	516,808	Mar. 20	1777	420	66	1814
Henry, John C., Westfield, N. J. Electric-railway-conductor support.....	519,115	May 1	229	71	67	592
Henry, John C., Westfield, N. J. Electric-motor truck.....	520,780	June 5	32	7	67	1203
Henry, John C., Westfield, N. J. Electric-railway-car motor.....	521,651	June 19	1600	374 } 375 }	67	1519
Henry, John C., Westfield, N. J. Electric-railway car.....	524,823	Aug. 21	1467	358	68	960
Henry, John C., Westfield, N. J. Motor-generator.....	524,852	Aug. 21	1517	370	68	968
Henry, John C., New York, N. Y. Electric meter.....	513,264	Jan. 23	2565	619	66	584
Henry, John C., New York, N. Y. Electric motor.....	518,033	Apr. 10	1026	259	67	206
Henry, John S., Manheim, Pa. Sash lock and support.....	517,456	Apr. 3	72	15	67	16
Henry, Joseph W., Westport, Mo. Seed-cleaner.....	512,702	Jan. 16	1612	388	66	332
Henry, Joseph W., Kansas City, Mo. Sparrow-trap.....	513,124	Jan. 23	2420	584	66	555
Henry Seymour Cutlery Company. (See Seymour, Henry T., assignor.)						
Henry, Thomas, Jr., Philadelphia, Pa. Cop-tube.....	529,445	Nov. 20	1672	398	69	990
Hensel, George F., Philadelphia, Pa. Upholstery pendant or ornament.....	521,370	June 12	1104	260	67	1413
Hensel, Hermann, Jersey City, N. J. Automatic toy motor.....	515,956	Mar. 6	349	83	66	1518
Hensel, John A., Chicago, Ill. Ceiling or wainscoting board.....	517,521	Apr. 3	171	39	67	35
Hensel, Otto A., Pittsburg, assignor of one-fourth to H. Bowes, Allegheny, Pa. Household or kitchen implement.....	530,268	Dec. 4	338	83	69	1277
Henshaw, Frederick V., Brooklyn, N. Y. Electric starting-switch.....	518,404	Apr. 17	1682	416 } 417 }	67	340
Hentz, James W., Baltimore, Md. Letter-box.....	516,890	Mar. 20	1914	452	66	1642
Hentz, James W., Baltimore, Md. Letter-box.....	516,801	Mar. 20	1916	452	66	1643
Hentze, Joseph J., St. Louis, Mo. Coupling for bathing apparatus.....	514,321	Feb. 6	596	151	66	965

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Hentzschel, Carl. (See Sauer and Hentzschel.)						
Henwood, John, Portsmouth, Va. Mining-machine	527,791	Oct. 23	1837	442	69	387
Hepburn, Lewis L., assignor to Marlin Fire Arms Company, New Haven, Conn. Detachably securing barrels to stocks	518,950	May 1	23	6	67	541
Hepburn, Lewis L., assignor to Marlin Fire Arms Company, New Haven, Conn. Device for attaching magazines to gun-barrels	525,739	Sept. 11	730	168	68	1297
Hepburn, Lewis L., assignor to Marlin Fire Arms Company, New Haven, Conn. Magazine-gun	528,905	Nov. 6	712	168	69	776
Hepburn, Robert H., London, England. Candle-holder	516,330	Mar. 13	969	230	66	1650
Hepfer, Harry. (See Horning, Robert A., assignor.)						
Hepp, Daniel, Chicago, Ill. Rod or slat machine	514,750	Feb. 13	1298	323	66	1116
Hepp, Daniel, Chicago, Ill. Mortising-machine	516,014	Mar. 6	456	105	66	1537
Hepp, Daniel, Chicago, Ill. Workman's time-recorder	520,310	May 22	2398	582	67	1026
Heppe, Christopher J., et al. (See Wuest, Philip, Jr., assignor.)						
Heppe, Florence J., et al. (See Wuest, Philip, Jr., assignor.)						
Heppell, Thomas, Birtley, J. G. and W. Patterson, Tynemouth, England. Machinery for cutting coal, stone, or other hard substances	529,790	Nov. 27	2245	535	69	1103
Hepworth, John W. (See Breathwaite and Hepworth.)						
Hepworth, Samuel S., Yonkers, assignor to E. S. Innet, New York, N. Y. Centrifugal machine for steaming sugar	514,264	Feb. 6	500	123	66	947
Herbert, Charles A. (See Randall, Purdy M., assignor.)						
Herbert, John J., Chattanooga, Tenn. Knockdown box or crate	514,367	Feb. 6	662	168	66	977
Herberts, Hermann, Schenectady, N. Y. Electrical measuring-instrument	526,487	Sept. 25	2050	488	68	1585
Herbkesmann, Fredrick W., St. Louis, Mo. Nozzle	528,431	Oct. 30	2974	719	69	606
Herbolsheimer, Charles F. (See Ream and Herbolsheimer.)						
Hercules Iron Works. (See Levey, Butler, and MacDonald, assignors.)						
Herdman, Alfred, Ridgway, Pa. Receptacle for holding laundry articles	513,575	Jan. 30	3087	759	66	717
Herdman, Frank E., Indianapolis, Ind. Electric motor	519,116	May 1	301	71, 72	67	593
Herdman, Frank E., Indianapolis, Ind. Electric elevator	519,117	May 1	305	72, 73	67	594
Herdman, Frank E., Indianapolis, Ind. Elevator	519,118	May 1	310	73	67	595
Herdman, Frank E., Indianapolis, Ind. Regulator for electric motors	519,120	May 1	315	75	67	597
Herdman, Frank E., Indianapolis, Ind. Controlling device for electric motors	519,121	May 1	319	76	67	598
Herdman, Frank E., Indianapolis, Ind. Controlling device for electric motors	519,122	May 1	321	76	67	599
Herdman, Frank E., Indianapolis, Ind. Controlling device for electric motors	519,123	May 1	325	77	67	600
Herdman, Frank E., Indianapolis, Ind. Electric-motor-controlling apparatus	519,124	May 1	327	77	67	600
Herdman, Frank E., Indianapolis, Ind. Pump	530,618	Dec. 11	969	237	69	1408
Herdman, Frank E., Indianapolis, Ind. Electric-motor-propelled elevator	530,619	Dec. 11	970	237	69	1408
Herdman, Frank E., Winnetka, Ill. Elevator controlling device	519,119	May 1	312	74	67	596
Herdman, Frank E., Winnetka, Ill. Electric motor	530,773	Dec. 11	1233	299	69	1455
Herdman, Frank E., Winnetka, Ill., assignor to Premier Steel Company, of Indiana. Electric elevator. (Reissue)	11,408	Mar. 27	2863	670	66	2041
Herdman, Frank E., Winnetka, Ill., assignor to Premier Steel Company, of Indiana. Electrically-operated elevator. (Reissue)	11,409	Mar. 27	2869	672	66	2043
Heredia, Guillermo, Mexico, Mexico. Device for tightening strings of musical instruments	521,286	June 12	953	226	67	1382
Hereth, Frank S., Chicago, Ill. Machine for forming tablets	527,980	Oct. 23	2188	527	69	449
Herhold & Sons, F. (See Hafgar, Magnus J., assignor.)						
Heritage, Charles. (See Taylor and Heritage.)						
Herman, Charles, Allegheny, Pa. Molding-machine	528,295	Oct. 30	2742	662	69	565
Herman, Christopher B., assignor of one-half to J. W. Bradshaw, Indianapolis, Ind. Railway-rail joint	523,837	July 31	2901	723	68	603
Herman, David M., Lewisberry, Pa. Shelf-hanger	529,791	Nov. 27	2246	536	69	1103
Herman, Frank J., Norwalk, Ohio. Hub-attaching device	529,683	Nov. 20	2069	495	69	1063
Herman, Frederick, Martinsville, Miss. Joint-plate and burr-holder	515,224	Feb. 20	2050	511	66	1269
Herman, Peter, Norwalk, Ohio. Compensator for wire fences	529,649	Nov. 20	2011	482	69	1052
Herman, Reinhold, Crafton, Pa. Rail-joint	514,224	Feb. 6	404	104	66	933
Herman, Reinhold, Crafton, Pa. Distributing-board for electric circuits	523,370	July 3	330	85	68	65
Hernance, Albert D. (See Hernance, Richard M., assignor.)						
Hernance, Albert D. (See Marsh and Hernance.)						
Hernance, Richard M., Poughkeepsie, N. Y., assignor of one-half to A. D. Hernance, Williamsport, Pa. Damper	522,521	July 3	590	151	68	116
Hermann, Edward A., St. Louis, Mo. Automatic electric signaling device for crossings	518,525	Apr. 17	1887	467	67	377
Hermann, Edward A., St. Louis, Mo. Automatic electric signaling device	524,548	Aug. 14	1008	248	68	863
Hermes, John G., Mount Vernon, N. Y. Non-condensing apparatus for steam-whistles	527,000	Oct. 2	538	132	69	101
Hernandez, José R., Havana, Cuba. Cigarette-wrapper holder	521,026	June 5	485	115	67	1284
Hernon, Stephen, Los Angeles, Cal. Stone-working machine	513,969	Jan. 30	3711	914	66	836
Hernsheim, Charles, New Orleans, La. Cigar-band	527,687	Oct. 16	1660	400	69	336
Hernsheim, Charles, New Orleans, La. Display-card	527,688	Oct. 16	1661	400	69	336
Hernsheim, Charles, New Orleans, La. Cigar-shaping machine	527,689	Oct. 16	1663	401	69	337
Hernz, Louis M., Philadelphia, Pa. Yarn-swift	516,015	Mar. 6	457	105	66	1537
Herr, Abraham S. (See Brickner and Herr.)						
Herr, Harvey E., Dayton, Ohio, assignor to American Egg Case Company, Port Huron, Mich. Machine for making egg-fillers	529,172	Nov. 13	1165	280	69	878
Herr, Henry C., Williamsville, N. Y., assignor to American Egg Case Company, Port Huron, Mich. Egg-case	529,173	Nov. 13	1171	282	69	879
Herr, John, Philadelphia, Pa. Bond for electrical conductors	521,238	June 12	860	203	67	1366
Herran y Bolado, José, Aguas Calientes, Mexico. Type-writing machine	524,816	Aug. 21	1452	355	68	957
Herrburger, Joseph, Paris, France. Piano-action	520,989	June 5	428	103	67	1274
Herrick, Albert B., Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Dynamo-electric machine	520,781	June 5	34	8	67	1203
Herrick, Albert B., Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Rheostat	524,382	Aug. 14	728	176	68	811
Herrick, Albert B., Schenectady, N. Y., assignor to General Electric Company, of New York. Bus-bar switch for central stations	524,383	Aug. 14	730	177	68	812
Herrick, Albert D., Schenectady, N. Y., assignor to General Electric Company, of New York. Bus-bar insulating-support	525,708	Sept. 11	678	157	68	1288

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Herrick, Austin T., Bradford, Pa. Temper-screw	513,927	Jan. 30	3643	898	66	822
Herrick, Stephen S., San Francisco, Cal. Water-closet for railway-cars	525,104	Aug. 23	1975	483	68	1066
Herring, William H., Wilkes-Barré, Pa. Coal-separator	520,524	May 29	2758	668	67	1108
Herrington, Ephraim, assignor of one-half to W. H. Greenwood, Atlanta, Ga. Knife	527,491	Oct. 16	1339	326	69	279
Herrington, Ephraim, assignor of two-thirds to A. F. Green and R. P. Horton, Atlanta, Ga. Tricycle	523,638	July 24	2530	635	68	519
Herrington, Ephraim, and R. I. Butler, assignors to A. F. Green, R. P. Horton, and said Herrington, Atlanta, Ga. Velocipede	515,428	Feb. 27	2413	507	66	1350
Herriott, John W., Hubbell, Nebr. Twine-box	518,504	Apr. 17	1853	459	67	370
Herrmann, Franz, Iserthal, Austria-Hungary. Making artificial stones of small size for toys, &c.	527,059	Oct. 9	634	242	69	133
Herrmann, Heinrich, Laufen, Germany. Nursing-bottle	527,284	Oct. 9	998	242	69	200
Herschell, Allan. (See Armitage and Herschell.)						
Herschell, George C. (See Armitage and Herschell.)						
Hersey, George H., Clifton, N. J. Tubular and sectional boiler	513,045	Jan. 16	2210	529	66	444
Hersh, Edgar E., assignor to himself and H. E. Hersh, Allentown, Pa. Cycle-frame	529,861	Nov. 27	2372	568	69	1128
Hersh, Elmer E., assignor of two-thirds to J. B. Torbert and C. A. Scott, Denver, Colo. Electric cut-out	526,227	Sept. 18	1576	370	68	1463
Hersh, Elmer E., B. F. Woodward, and J. W. Pettee, Denver, Colo. Circuit-switch	518,188	Apr. 10	1282	325	67	249
Hersh, Harvey E. (See Hersh, Edgar E., assignor.)						
Hershberger, Daniel, Idaville, Ind. Artificial leg	514,225	Feb. 6	431	105	66	933
Hershey, Benjamin H., et al. (See White, Benjamin F., assignor.)						
Hershey, Daniel, and H. Buck, Mount Morris, Ill. Wire fence	523,347	July 24	2035	511	68	429
Hertel, Carl W. A., Berlin, Germany. Galvanic battery	519,330	May 8	715	176	67	690
Herth, George J., and G. Bonenberger, Evansville, Ind. Mine trap-door	513,576	Jan. 30	3089	760	66	717
Herth, George J., and G. Bonenberger, Evansville, Ind. Mine trap-door	521,979	June 26	2198	529	67	1648
Hertzler, Levi, Mechanicsburg, Pa. Rotary bolt for flour	522,522	July 3	591	151	68	116
Hervieu, Gaston. (See Vidal and Hervieu.)						
Herweyer, Leonard, Vogel Centre, Mich. Barbed-wire fence	517,548	Apr. 3	216	49	67	43
Herz, Richard, Vienna, Austria-Hungary. Device for closing bottles	515,472	Feb. 27	2475	612	66	1362
Herzberg, Martin. (See Ulrich, Bammann, and Herzberg.)						
Herzberg, Wilhelm, and O. Weber, assignors to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Blue dye	522,897	July 10	1233	.....	68	249
Herzig, Emil. (See Thies and Herzig.)						
Hesch, Philip M., Jr. (See Wilson and Hesch.)						
Hesel, John, St. Louis, Mo. Razor-strop composition	519,533	May 8	1092	262	67	758
Heselwood, James, Leeds, England. Washing-machine	524,204	Aug. 7	406	96	68	735
Heselwood, James, Leeds, England. Washing-machine	524,205	Aug. 7	408	97	68	736
Heskett, Harrison H., Minneapolis, Minn. Rosin-pad for use on bows of stringed instruments.	530,946	Dec. 18	1515	359	69	1521
Hess, Christian, Steelton, Pa. Type-writing machine	516,973	Mar. 20	2056	486	66	1869
Hess, Christian J., assignor to J. F. Williamson, Minneapolis, Minn. Lever-handle for waffle-irons	528,634	Nov. 6	210	51	69	684
Hess, Frank W., Philadelphia, Pa. Valve	521,027	June 5	485	116	67	1284
Hess, George W. (See Kidd and Hess.)						
Hess, Henry K., Syracuse, N. Y. Storage-battery	525,017	Aug. 28	1808	{ 441 442 }	{ 68 68 }	{ 1037 1038 }
Hess, Henry K., Syracuse, N. Y. Storage-battery	525,018	Aug. 28	1811	442	68	1038
Hess, Jacob F., Massillon, Ohio. Pump	514,991	Feb. 20	1671	419	66	1201
Hess, John A., Philadelphia, Pa. Cutter or trimmer for wood, leather, &c.	527,604	Oct. 16	1525	370	69	311
Hess, John A., Philadelphia, Pa., assignor to Holyoke Envelope Company, Holyoke, Mass. Cutting-rolls	518,647	Apr. 24	2094	522	67	428
Hess, Joseph, Mifflintown, Pa. Tray-rocking machine	525,602	Sept. 4	471	113	68	1239
Hesse, Ernest, Hollywood, Minn. Band-cutter and feeder	513,682	Jan. 30	3263	{ 802 803 }	{ 66 66 }	{ 748 748 }
Hesse, Florence, Frederick, Md. Puzzle	530,774	Dec. 11	1237	299	69	1456
Hesse, Frank K., assignor to Codman & Shurtleff, Boston, Mass. Angle attachment for dental handpieces	514,073	Feb. 6	152	36	66	883
Hesse, Frank K., assignor to Codman & Shurtleff, Boston, Mass. Angle attachment for dental handpieces	514,074	Feb. 6	154	36	66	883
Hessels, Anthony, New York, N. Y. Truss	513,681	Jan. 30	3263	802	66	748
Hetherington, Martin, assignor to J. W. Steere & Son, Springfield, Mass. Organ	528,478	Oct. 30	3056	{ 741 742 }	{ 89 89 }	{ 621 621 }
Hetterschied, William, Grand Rapids, Mich. Knockdown base and column	526,834	Oct. 2	267	65	69	51
Heuser, Frederick W., St. Louis, Mo. Wood-turning machine	525,982	Sept. 11	1151	{ 261 262 }	{ 68 68 }	{ 1373 1373 }
Hevner, Peter, Philadelphia, Pa. Railway-track structure	517,277	Mar. 27	2586	606	66	1987
Hewes, Henry M. (See Nason, Joseph H., assignor.)						
Hewett, Gardner, New York, N. Y. Depolarizer for voltaic cells	512,510	Jan. 9	1311	.....	66	259
Hewett, Gardner, New York, N. Y. Excitant for voltaic cells	512,962	Jan. 16	2091	.....	66	421
Hewett, Gardner, assignor of four-fifths to W. H. Longsdorf, New York, N. Y. Galvanic battery	522,983	July 17	1393	348	68	295
Hewett, Robert J., St. Louis, Mo. Conduit railway-trolley	526,835	Oct. 2	268	65	69	51
Hewett, Seth M., Minneapolis, Minn. Hoisting and conveying apparatus	517,859	Apr. 10	726	183	67	154
Hewitt, Isaac W., Akron, Ohio. Track-cleaner and switch-thrower	522,898	July 10	1234	306	68	250
Hewitt, Benjamin, and R. Wootton, Birmingham, England. Machine for making shells, tubes, &c.	516,809	Mar. 20	1778	420	66	1815
Hewitt, John C. (See Potter and Hewitt.)						
Hewitt, Joseph F., Allegheny, Pa. Burner for burning gaseous fuel	523,036	July 17	1487	370	68	312
Hewitt, Joseph F., Allegheny, Pa. Fireplace-front	523,037	July 17	1488	370	68	312
Hewitt, Peter C., New York, N. Y. Process of and apparatus for making glue	521,371	June 12	1105	260	67	1413
Hewitt, Peter C., New York, N. Y. Purifying glue	522,831	July 10	1136	.....	68	230
Hewitt, Peter C., New York, N. Y. Drying-machine	526,228	Sept. 18	1577	370	68	1463
Hewitt, William, Brantford, Canada. Cultivator	513,185	Jan. 23	2423	{ 584 585 }	{ 66 66 }	{ 556 556 }
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company, of New York. Double-throw snap-switch	524,384	Aug. 14	731	177	68	812
Hewson, William. (See Birtz, Norbert, assignor.)						
Hey, George W., Syracuse, N. Y. Electrical signal apparatus	514,461	Feb. 13	798	{ 205 206 }	{ 66 66 }	{ 1022 1022 }
Hey, George W., Syracuse, N. Y. Electrical apparatus	514,462	Feb. 13	808	{ 206 207 }	{ 66 66 }	{ 1023 1023 }
Hey, George W., Syracuse, N. Y. Circuit-closer	520,427	May 29	2595	628	67	1079
Heyde, Carl von der, assignor to Telegram Cycle Manufacturing Company, Milwaukee, Wis. Vehicle-wheel	531,311	Dec. 25	2178	521	69	1657

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Heyde, Edward, assignor to Wickes Brothers, East Saginaw, Mich. Steam steering apparatus	521,652	June 19	1602	375	67	1519
Heyde, Edward, assignor to Wickes Brothers, East Saginaw, Mich. Slide-valve	521,653	June 19	1603	376	67	1520
Heydebrand und der Lasa, Ferdinand-Christoph von, assignor of one-half to G. Semier, New York, N. Y. Window	523,637	Nov. 6	213	52	69	684
Heyden, F. von, Nachfolger. (See Seifert, Bruno R., assignor.)						
Heyligenstaedt, Louis P. K., Giessen, Germany. Machine for rolling casks	520,205	May 22	2230	542	67	994
Heylman, William T., Muncie, Ind. Buff-wheel	520,679	May 29	3028	733	67	1158
Heymann, Bernhard, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue dye	524,322	Aug. 14	605	-----	68	790
Heymann, Bernhard, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue dye	524,323	Aug. 14	606	-----	68	790
Heymann, Edward and F. W., Boston, Mass. Electric-arc lamp	522,294	July 3	206	56	68	42
Heymann, Frank W. (See Heymann, Edward and F. W.)						
Heymann, Max. (See Schagen, Gerhard, assignor.)						
Heymannson, Benjamin, Boise City, Idaho. Bolt-socket	518,405	Apr. 17	1684	417	67	341
Heyn, Sabina, Omaha, Neb. Knee-protector	511,842	Jan. 2	150	38	66	82
Heynen, Ernst, Barmen, Germany. Manufacture of metallic binding-clamps	526,443	Sept. 25	1983	473	68	1553
Heys, John J., assignor of one-half to M. V. Bresnahan, Lynn, Mass. Sole-cutting machine	521,793	June 26	1855	444	67	1584
Heys, John J., Lynn, assignor to J. W. Brooks, trustee, Petersham, Mass. Heel-pressing machine	530,046	Nov. 27	2707	650	69	1193
Heysinger, Isaac W., Philadelphia, Pa. Holder for glass-cutting tools	526,444	Sept. 25	1984	473	68	1554
Heysinger, Isaac W., Philadelphia, Pa. Device for holding and clamping papers, &c.	531,312	Dec. 25	2179	521	69	1637
Heywood Bros. & Co. (See Watkins, Edward G., assignor.)						
Heywood, Charles H., Springfield, Mass., assignor to National Envelope Company, of New Jersey. Envelope-machine	516,810	Mar. 20	1780	421	66	1815
Heywood, Charles H., Springfield, Mass., assignor to National Envelope Company, of New Jersey. Envelope-machine	516,811	Mar. 20	1782	421	66	1816
Heywood, Charles H., Springfield, Mass., assignor to National Envelope Company, of New Jersey. Elevator for envelope-machines	516,812	Mar. 20	1786	422	66	1816
Heywood, Charles H., Springfield, Mass., assignor to National Envelope Company, of New Jersey. Envelope-machine	516,813	Mar. 20	1789	423	66	1817
Heywood, Robert, and J. H. Nunn, London, England. Tobacco-pouch	527,202	Oct. 9	853	207	69	174
Heywood, Silas L., Minneapolis, Minn. Variable direction and speed device	530,588	Dec. 11	921	226	69	1400
Hiatt, Joseph P., Richmond, Ind. Wire-fence machine	522,899	July 10	1235	306	68	250
Hibbard, George E., Chicago, Ill. Valve for automatic fire-extinguishers	531,119	Dec. 18	1820	432	69	1576
Hibbard, George E., Chicago, Ill. Sprinkler-head for automatic fire-extinguishers	531,120	Dec. 18	1824	433	69	1577
Hibbard, William W., assignor to Standard Electric Signal Company, Rochester, N. Y. Electric signaling apparatus	523,120	July 17	1631	408	68	341
Hibbard, William W., assignor to Standard Electric Signal Company, Rochester, N. Y. Electric signaling apparatus	523,121	July 17	1635	409	68	341
Hibbard, William W., assignor to Standard Electric Signal Company, Rochester, N. Y. Differentiating apparatus for electric signal systems	523,122	July 17	1641	410	68	342
Hibbard, William W., assignor to Standard Electric Signal Company, Rochester, N. Y. Electric signal-box	523,123	July 17	1643	411	68	342
Hibbard, William W., assignor to Standard Electric Signal Company, Rochester, N. Y. Electric signal-box	523,124	July 17	1647	412	68	342
Hibbert, Decatur H., Wallingford, Pa. House	531,032	Dec. 18	1663	394	69	1548
Hibbert, George, Gateshead-on-Tyne, England. Pulping and grinding machine	520,680	May 29	3030	733	67	1159
Hibbert, Henry R. Fawcett, and J. Worthington, Preston, England. Tension device	517,043	Mar. 27	2189	518	66	1910
Hibbs, Samuel, York, Pa. Process of and apparatus for carbureting air	511,950	Jan. 2	379	88	66	72
Hickethier, Charles, and J. Theenling, Union Hill, N. J. Window-guard	522,523	July 3	592	152	68	117
Hickman, Elijah, Red Bluff, Cal. Truck	517,219	Mar. 27	2496	587	66	1969
Hickman, Francis, Bound Brook, N. J. Machine for grinding pulp-stock	529,907	Nov. 27	2443	586	69	1141
Hickok, Franklin K., New York, N. Y. Blackboard	515,335	Feb. 27	2254	559	66	1320
Hickok, John J. (See Wooldridge, Joseph F., assignor.)						
Hickory Wheel Company. (See Elliott, Sterling, assignor.)						
Hicks, Charles W., Ashburn, Ga. Steam-generating appliance	517,949	Apr. 10	876	220	67	181
Hicks, Horace D., assignor of one-half to Brown's Lumber Company, Whitefield, N. H. Adding-machine	528,596	Nov. 6	130	31, 32	69	670
Hicks, James J., London, England. Photographic view-finder	525,654	Sept. 4	562	135	68	1255
Hicks, Michael, New York, N. Y. Gas-lamp	512,026	Jan. 2	497	117	66	95
Hicks, Schuyler C. (See Rose, William E., assignor.)						
Hicks, Simeon J., Englewood, Ill. Confectionery-machine	531,033	Dec. 18	1663	395	69	1548
Hicks, Thomas H., Detroit, Mich. Armature for dynamo-electric machines or electric motors	518,756	Apr. 24	2295	570	67	463
Hicks, Thomas H., Detroit, Mich. System of electrical conversion and distribution	520,050	May 22	1940	475	67	942
Hicks, Thomas H., Detroit, Mich. Armature for dynamo-electric machines and making same	523,204	Oct. 30	2582	624	69	535
Hiering, Christian. (See Mergott and Hering.)						
Hiett, James W., and T. C. Cole, Jonesborough, Ark. Ironing-board	523,058	June 26	2328	559	67	1672
Hiffer, Levi R., Grand Rapids, Mich. Corn-popper	519,404	May 8	853	206	67	715
Higbee, O. J., et al. (See Proctor, Charles B., assignor.)						
Higbie, Frances, Brooklyn, N. Y. Music-stand	514,751	Feb. 13	1301	324	66	1116
Higbie, Garrit, Brooklyn, N. Y. Liquid-seal pail	531,313	Dec. 25	2182	522	69	1658
Higgin, Henry, Newport, Ky. Window-screen	514,654	Feb. 13	1131	282	66	1084
Higgins, Albert L., Bar Harbor, Me. Drinking-fountain for fowls	516,600	Mar. 13	1434	340	66	1737
Higgins, Albert L., Bar Harbor, Me. Drinking-fountain for fowls	516,637	Mar. 13	1496	356	66	1745
Higgins, Barton B. (See Hogg, Franklyn S., assignor.)						
Higgins, Campbell P., Roselle, N. J. Punching and forming machine	521,858	June 26	1955	471	67	1603
Higgins, Campbell P., Roselle, N. J. Riveting-machine	524,325	Aug. 14	609	146	68	791
Higgins, Campbell P., Roselle, N. J. Riveting-machine	524,326	Aug. 14	610	147	68	791

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Higgins, Campbell P., New York, N. Y. Machine for spreading ends of headers or tubes.	524,324	Aug. 14	607	{ 145 146 }	68	791
Higgins, Campbell P., New York, N. Y. Apparatus for intensifying the pressure of compressed fluid.	527,981	Oct. 23	2191	{ 527 528 }	69	450
Higgins, Charles H., Elmwood Place, Ohio. Catch-basin.	515,681	Feb. 27	2311	701	66	1428
Higgins, Charles S., Brooklyn, N. Y. Coin-controlled soap-holder.	516,531	Mar. 13	1323	315	66	1713
Higgins, Frederick A., Winthrop, Mass., assignor to J. W. York, Portland, Me. Game-board.	511,773	Jan. 2	50	12	66	12
Higgins, Le Roy L. (See Callahan, Harry A., assignor.)						
Higgins, Oliver, Napoleon, Ohio. Magnetic telephone.	529,174	Nov. 13	1173	282	69	880
Higgins, Pattillo, Beaumont, Tex. Means for propelling boats.	527,605	Oct. 16	1527	370	69	311
Higgins, William W., Helena, Mont. Reel-oven.	528,877	Nov. 6	651	156	69	765
Higginson, Henry C., Newburg, N. Y. Manufacture of plaster.	519,259	May 1	575	140	67	649
High Pressure Fire-Main Company. (See Vinning, Mozart, assignor.)						
Higham, Daniel, Boston, Mass., assignor, by mesne assignments, to Higham Electric Company, Portland, Me. Regulator for continuous-current arc-light circuits.	512,027	Jan. 2	499	118	66	96
Higham, Daniel, Boston, Mass., assignor, by mesne assignments, to Higham Electric Company, Portland, Me. Regulator for continuous-current arc-light circuits.	515,473	Feb. 27	2477	613	66	1362
Higham, Daniel, Boston, Mass., assignor to Higham Electric Company, Portland, Me. Electric arc-lighting system.	520,232	May 22	2272	553	67	1001
Higham Electric Company. (See Higham, Daniel, assignor.)						
Higley, Eben N., Summersworth, N. H., assignor to International Railway Tie Company, New York, N. Y. Rail chalm and tie.	531,263	Dec. 18	2089	500	69	1625
Highsmith, Lewis C., Canton, Tex. Tool for building wire fences.	519,710	May 15	1356	334	67	824
Hihn, Louis W., San José, Cal. Fruit-tree support.	527,492	Oct. 16	1340	326	69	279
Hildebrand, Henry W., Denver, Colo. Propelling mechanism for canal-boats.	521,146	June 5	696	163	67	1322
Hildenbrand, Philipp, Philadelphia, Pa. Apparatus for cooling and aerating liquors.	515,829	Mar. 6	158	39	66	1485
Hilder, Charles F., London, England. Apparatus for distributing type.	517,802	Apr. 3	643	161	67	125
Hilder, Charles F., London, England. Type-setting machine.	520,311	May 22	2401	{ 583 584 }	67	1026
Hilder, Charles F., London, England. Type-distributing apparatus.	531,531	Dec. 25	2566	614	69	1731
Hildreth, Fred. (See Burnham, Arthur M. and H. L., assignors.)						
Hill, Andrew L., Decatur, Ill. Hame-tug.	527,747	Oct. 16	1759	494	69	354
Hill, Benjamin B., Philadelphia, Pa. Combined printing and cutting stamp.	525,078	Aug. 28	1927	472	68	1059
Hill, Charles S., Boston, and W. E. Bailey, Beverly, Mass.; said Bailey assignor to said Hill. Heel-nailing machine.	511,951	Jan. 2	380	88	66	72
Hill, Charles W., et al. (See Maley, Fredrick W., assignor.)						
Hill, Chauncey H., Minneapolis, Minn. Band-cutter and feeder.	526,351	Sept. 18	1781	{ 422 423 }	68	1504
Hill, Christian C. (See Kingsland and Hill.)						
Hill, Christian C., assignor to Hill Machine Company, Chicago, Ill. Screw-machine.	522,207	July 3	38	10	68	9
Hill, Ebenezer, South Norwalk, Conn. Gas-forcing plant.	512,703	Jan. 16	1614	388	66	332
Hill, Ebenezer, South Norwalk, Conn. Apparatus for dynamic refrigeration.	515,585	Feb. 27	2653	659	66	1397
Hill, Edgar A., et al. (See Hill, Edward A., assignor.)						
Hill, Edward A., assignor of two-thirds to J. L. Mallory and E. A. Hill, Chicago, Ill. Bracket for car-doors.	527,792	Oct. 23	1841	443	69	387
Hill, Edwin A., assignor to Enochs Lumber and Manufacturing Company, Jackson, Miss. Shaft-hanger.	524,549	Aug. 14	1010	249	68	863
Hill, Elizabeth. (See Hill, Jonathan E. C., assignor.)						
Hill, Frederick B., assignor to Hills Cold Storage Company, Limited, London, England. Refrigerating machine.	524,249	Aug. 7	473	{ 111 112 }	68	748
Hill, George P. (See Brown and Hill.)						
Hill, George P., Richmond, Va. Darning or embroidering frame.	519,258	May 1	574	{ 139 140 }	67	649
Hill, George S., Bradford, assignor of one-half to J. H. Murray, Haverhill, Mass. Sewing-machine for barring and tacking.	529,491	Nov. 20	1759	418	69	1005
Hill, Harry W., Cleveland, Ohio, assignor to F. W. Roberts, Key West, Fla. Clutch.	516,269	Mar. 13	878	206	66	1633
Hill, Harvey N., assignor of one-half to M. W. Bloomberg, Pontiac, Mich. Seam for metal troughs or tanks.	525,459	Sept. 4	241	59	68	1195
Hill, Henry, and A. L. Adams, London, England. Folding photographic camera.	531,416	Dec. 25	2361	563	69	1693
Hill, Herbert C. (See Weller, Franklin A., assignor.)						
Hill, Ira M., Boston, Mass. Safety attachment for elevators and elevator-gates.	523,878	Nov. 6	653	156	69	765
Hill, James, Keighley, and E. Smith, Nelson-in-Marsden, England. Pattern mechanism for looms.	526,036	Sept. 18	1239	{ 286 287 }	68	1402
Hill, James B., Bowling Green, Ohio. Traction ditching-machine.	523,790	July 31	2809	{ 698 699 }	68	585
Hill, James F. (See Gwin, Andrew J., assignor.)						
Hill, Joel E., Walnut Cove, N. C. Steam-cooker.	525,147	Aug. 28	2051	500	68	1050
Hill, John A., et al. (See Smith, Calvin A., assignor.)						
Hill, John W., Chicago, Ill. Bag.	512,323	Jan. 23	2644	641	66	599
Hill, John W., Chicago, and L. D. Benner, Peoria, Ill. Method of and means for planting corn.	529,492	Nov. 20	1762	419	69	1005
Hill, Jonathan E. C., assignor to E. Hill, Cincinnati, Ohio. Lock-box for safes.	516,650	Mar. 20	1527	363	66	1769
Hill, Joseph P., Worcester, Mass. Clothes-drier.	516,331	Mar. 13	971	230	66	1650
Hill, Joseph S. (See Daugherty and Hill.)						
Hill Machine Company. (See Hill, Christian C., assignor.)						
Hill, Nicholas S., Jr., et al. (See Morton, James F., assignor.)						
Hill, Oscar F., Lowell, Mass. Draftsman's instrument.	531,186	Dec. 18	1945	462	69	1600
Hill, Robert W. (See Haynes, Daniel, assignor.)						
Hill, Roland, Meriden, Conn. Butter-dish.	519,125	May 1	329	78	67	601
Hill, Stephen A. (See Black and Hill.)						
Hill, Theron B. (See Burch, Ezra, assignor.)						
Hill, Thomas R., Philadelphia, Pa., assignor to United States Metallic Packing Company, of Pennsylvania. Lubricator.	513,506	Jan. 30	2960	728	66	693
Hill, Truman A., Mount Morris, N. Y. Changing-gear for grain-drill heads.	529,266	Nov. 13	1336	320	69	908
Hill, Warren, Hartford, Conn. Punch.	530,990	June 5	429	103	67	1275
Hill, Warren S., Hyde Park, Mass. Electric switch.	518,813	Apr. 24	2392	591	67	480
Hill, Wilford A., Waltham, assignor of one-half to J. C. Miller, Melrose, Mass. Toy.	530,107	Dec. 4	54	15	69	1225
Hill, Wilford A., assignor of two-thirds to E. E. Butman, Waltham, Mass., and G. W. Lawrence, Cromwell, Conn. Powder-folding machine.	529,908	Nov. 27	2445	{ 587 588 }	69	1142
Hill, William. (See Macgowan, Janet, assignor.)						
Hill, William, assignor to Morse, Williams & Company, Philadelphia, Pa. Elevator apparatus.	527,426	Oct. 16	1236	302	69	256
Hill, William A., Saluda Old Town, S. C. Fly-trap.	512,108	Jan. 2	636	152	66	122
Hill, William E., Kalamazoo, Mich. Direct-acting steam-engine.	513,107	Jan. 23	2294	555	66	539

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Hill, William E., Kalamazoo, Mich. Steam log loader and turner	514,463	Feb. 13	819	207	66	1025
Hill, William E., Kalamazoo, Mich. Log loader and turner	514,550	Feb. 13	956	242	66	1051
Hill, William E., Kalamazoo, Mich. Check-valve	516,532	Mar. 13	1325	315	66	1715
Hill, William E., Kalamazoo, Mich. Log loading and turning machine	523,070	July 17	1532	383	68	321
Hill, William E., Kalamazoo, Mich. Log-unloader	526,624	Sept. 25	2256	540	68	1604
Hill, William E., Kalamazoo, Mich. Direct-acting steam-engine	530,341	Dec. 4	473	118	69	1300
Hill, William E., Kalamazoo, Mich. Direct-acting steam-engine for reciprocating saw-mill-carriages	531,532	Dec. 25	2567	614	69	1732
Hill, William H., assignor of one-half to J. Piccioli, Denver, Colo. Grinding-mechanism	527,748	Oct. 16	1760	424	69	354
Hillard, Barry N., <i>et al.</i> (See Ward, James A., assignor.)						
Hille, Friedrich J., Leipsic, Germany. Pen or pencil case	523,812	July 31	2853	708	68	594
Hillebrand, Louis, assignor to Hillebrand & Wolf, Philadelphia, Pa. Trunk-lock	513,461	Jan. 23	2876	707	66	642
Hillebrand & Wolf. (See Hillebrand, Louis, assignor.)						
Hillengass, Jacob, Washington, D. C. Scaffold-clamp	520,051	May 22	1942	476	67	942
Hiller, Louis C., assignor to Meriden Silver Plate Company, Meriden, Conn. Cheese or orange holder	521,613	June 19	1542	361	67	1508
Hiller, Louis C., and W. R. Mackay, assignors to Meriden Silver Plate Company, Meriden, Conn. Cheese-holder	521,612	June 19	1541	361	67	1508
Hillhouse, Frank S., Kalamazoo, Mich. Pocket guide and compass	512,882	Jan. 16	1958	464	66	398
Hilliard, John S., Philadelphia, Pa. Cash register and indicator	523,541	Nov. 6	29	8	69	652
Hilliker, William C., Columbus, Ohio. Rain-water cut off	520,444	May 29	2694	652	67	1097
Hillis, William J., Brooklyn, N. Y. Game apparatus	516,789	Mar. 20	1750	412	66	1809
Hillman, Joseph B. (See Thomas and Hillman.)						
Hills Cold Storage Company. (See Hill, Frederick B., assignor.)						
Hills, Garnett L., Washington, D. C. Mirror	516,092	Mar. 6	578	135	66	1560
Hills, Lorenzo, Pittsburg, Tex. Cattle-guard	516,307	Mar. 13	931	219	66	1643
Hills, Lorenzo, Pittsburg, Tex. Cattle-guard	525,900	Sept. 11	1020	230	68	1349
Hills, William W., St. Paul, Minn. Adjustable window-scaffold	514,464	Feb. 13	820	208	66	1025
Hillyer, Edgar C., Newport News, Va. Can filling device	527,982	Oct. 23	2193	526	69	450
Hilton, Dawson B., Brooklyn, N. Y. Transom-lifter	512,028	Jan. 2	501	119	66	96
Hilton, Dawson B., Brooklyn, N. Y. Retinuing bath-tubs	526,836	Oct. 2	270		69	51
Hime, John R., Sr., and W. B. Cox, Savannah, Ga. Clamp device	525,655	Sept. 4	563	136	68	1255
Himelright, Henry, <i>et al.</i> (See Knauser, Cyrus A., assignor.)						
Himes, Judson W., Elma, assignor of one-half to J. W. Anderson and D. Gillies, Chehalis county, Wash. Trace-hook	529,328	Nov. 13	1438	346	69	928
Himrod, Charles, Lancaster, Ohio. Embryotome	523,348	July 24	2036	512	68	430
Himrod, Julia A. (See Himrod, William, assignor.)						
Himrod, William, assignor of one-half to J. A. Himrod, Erie, Pa. System of bookkeeping	521,892	June 26	1993	481	67	1611
Hinchliffe, William, Huntsville, Ala. Metallic drawing-rolls for fibrous material	527,553	Oct. 16	1442	351	69	296
Hinchliffe, William, Huntsville, Ala. Drawing-rolls for fibrous material	527,554	Oct. 16	1443	351	69	297
Hinchliffe, William, Huntsville, Ala., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Weft-fork for looms	513,928	Jan. 30	3644	898	66	822
Hinckley Brake Company. (See Hinckley, Howard, assignor.)						
Hinckley, Herman, Williamsport, Pa. Bearing	515,336	Feb. 27	2255	559	66	1320
Hinckley, Howard, assignor to Hinckley Brake Company, Trenton, N. J. Brake for railway-cars	527,749	Oct. 16	1762	424	69	355
Hinckley, Howard, assignor to Hinckley Brake Company, Trenton, N. J. Slack-adjuster	531,034	Dec. 18	1665	{ 395 396 }	69	1548
Hinckley, Jared G. (See Broom, Whiteley, and Hinckley.)						
Hindes, Stetson G., San Francisco, Cal. Screw-propeller	524,500	Aug. 14	920	227	68	847
Hindmarsh, Percy J., Marysville, Kans. Wheeled toy	522,900	July 10	1238	307	68	250
Hinds, Fred, Binghamton, N. Y. Open fireplace-heater	525,208	Aug. 28	2152	{ 525 526 }	68	1097
Hinds, Jesse L., Syracuse, N. Y. Electric switch	512,614	Jan. 9	1460	353	66	287
Hinds, Jesse L., assignor of one-half to Electric Engineering and Supply Company, Syracuse, N. Y. Electric switch						
Hines, John H., Jr., Gloster, Miss. Necktie-holder	511,889	Jan. 2	278	64	66	54
Hinkel, Adam, Offenbach, Germany. Lady's hand-bag	528,579	Nov. 6	655	157	69	766
Hinkle, William A., Forsyth, Ill. Straw-stacker	526,037	Sept. 18	1243	287	68	1403
Hinkley, Charles S. W., San Antonio, Tex. Uterus-battery	518,843	Apr. 24	2430	602	67	487
Hinkley, George M., assignor of one-half to Edward P. Allis Company, Milwaukee, Wis. Feed mechanism for sawmill-carriages	520,206	May 22	2230	542	67	994
Hinman, Alfred, Olympia, Wash. Electric motor	515,429	Feb. 27	2414	{ 597 598 }	66	1350
Hinman, Charles E., Oxford, Nebr. Milk-can	520,782	June 5	37	8, 9	67	1204
Hinman, Charles W., Boston, Mass. Gas-pressure gage	512,109	Jan. 2	637	153	66	122
Hinman, Charles W., Boston, Mass. Gas-meter	513,786	Jan. 30	3426	845	66	778
Hinman, Orrin C. (See Carter and Hinman.)	523,349	July 24	2037	512	68	430
Hinnant, Stephen H. (See English and Hinnant.)						
Hinnershotz, Charles S., Reading, Pa. Carpenter's plane	514,226	Feb. 6	432	105	66	933
Hinrichs, Christian W., St. Louis, Mo. Drip-trough for refrigerators	525,901	Sept. 11	1021	{ 230 231 }	68	1349
Hinrichs, Henry, <i>et al.</i> (See Proctor, Charles B., assignor.)						
Hinrichs, William, <i>et al.</i> (See Wheeler, Fred A., assignor.)						
Hinshaw, Isaac N., Sheridan, Ind. Car-coupling	515,830	Mar. 6	160	39	66	1483
Hinson Car-Coupler Company. (See Reagan, Paul M., assignor.)						
Hinstin, Joseph, Paris, France. Furnace. (Reissue)	11,420	May 22	2554	{ 617 618 619 620 }	67	1056
Hinstin, Joseph, Paris, France. Heating apparatus	529,072	Nov. 13	996	{ 238 239 240 }	69	846
Hinton, Charles W., Los Angeles, Cal. Car-coupling	515,864	Mar. 6	210	50	66	1492
Hinton, Charles W., Los Angeles, Cal. Car-coupling	517,950	Apr. 10	878	220	67	181
Hinton, William, Hinton, W. Va. Surveying-instrument	524,591	Aug. 14	1066	{ 263 264 265 }	68	874
Hirsch, Carl F., San Francisco, Cal. Gas-engine	526,837	Oct. 2	271	65, 66	69	51
Hirsch, Feodor, Steinway, N. Y. Gas-engine	522,712	July 10	913	{ 225 226 227 228 }	68	192
Hirsch, Feodor, Steinway, N. Y. Gas-engine	530,523	Dec. 11	803	{ 199 200 }	69	1379
Hirsch, Feodor, Steinway, assignor to himself, and E. M. Jerome, New York, N. Y. Igniter for gas-engines	518,717	Apr. 24	2229	555	67	451

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Hirsch, Feodor, Steinway, assignor to himself, and E. M. Jerome, New York, N. Y. Apparatus for supplying jackets of gas-engines with water or other cooling liquids	523,706	July 31	2668	{ 661 662 }	68	559
Hirsch, Ludwig, New York, N. Y. Oilier for bicycles, &c.	521,614	June 19	1543	361	57	1508
Hirschfeld, Henry A., Westfield, Mass. Handle	516,930	Mar. 20	1986	467	66	1854
Hirschfeld, Leo, assignor of one-half to J. Stern and J. Saalberg, New York, N. Y. Machine for depositing confectionery into molds	530,417	Dec. 4	592	{ 147 148 }	69	1323
Hirsching, Henry, assignor of one-half to T. R. Ellerbeck, Salt Lake City, Utah Terr. Precipitating metal sulfide from hyposulfite solutions	513,324	Jan. 23	2645	641	66	599
Hirschmann, Charles, New York, N. Y. Fisherman's appliance	520,052	May 22	1943	476	67	943
Hirschmann, Josef, Linfield, Pa. Tinning-machine	520,428	May 29	2598	{ 628 629 }	67	1080
Hirsh, Morris M., et al. (See Schweizer, Adolph, assignor.)						
Hirsh, Ralph, Syracuse, N. Y. Refrigerator	519,711	May 15	1387	{ 334 335 }	67	824
Hirt, Charles F., Erie, Pa. Feed-water heater and cinder-consumer	523,350	July 24	2038	512	68	430
Hirt, Louis J. (See Sergeant and Hirt.)						
Hirt, Louis J., Boston, Mass. Valve	513,234	Jan. 23	2500	604	66	571
Hirt, Louis J., Somerville, Mass. Car-wheel	521,587	June 19	1498	351	67	1500
Hirt, Louis J., Somerville, Mass. Electric snow-plow	523,471	July 24	2255	{ 566 567 568 }	68	467
Hirt, Louis J., Somerville, assignor to H. W. Peabody & Co., Boston, Mass. Fuel-economizer.	512,718	Apr. 24	2230	555	67	451
Hiser, Charles H., et al. (See Hiser, Sherman N., assignor.)						
Hiser, John J., assignor of one-half to J. M. Colvin, Arcadia, La. Attachment for baling-presses	522,208	July 3	44	11	68	11
Hiser, Sherman N., Springfield, Ohio. Pedestal for burial-caskets	514,351	Feb. 13	1461	367	66	1147
Hiser, Sherman N., assignor of two-thirds to E. N. Lupfer and C. H. Hiser, Springfield, Ohio. Stretcher	524,824	Aug. 21	1468	{ 358 359 }	68	960
Hisey, Abraham. (See Cook, Adolphus H., assignor.)						
Hisey, Charles S., Aurora, Ind. Gas-engine	514,713	Feb. 13	1233	307	66	1104
Hisey, Charles S., Aurora, Ind., assignor to E. S. Rice, Chicago, Ill. Shell-carrier block	525,093	Oct. 23	2386	576	69	485
Hisey, Charles S., Aurora, Ind., assignor to E. S. Rice, Chicago, Ill. Shell-carrier-actuating mechanism for cartridge-loading machines	528,094	Oct. 23	2389	{ 576 577 }	69	485
Hisey, Charles S., Aurora, Ind., assignor to E. S. Rice, Chicago, Ill. Shell-feeding mechanism for cartridge-loading machines	528,095	Oct. 23	2391	577	69	486
Hisey, Charles S., Aurora, Ind., assignor to E. S. Rice, Chicago, Ill. Shell-placer for cartridge-loading machines	528,096	Oct. 23	2392	578	69	486
Hisey, Charles S., Aurora, Ind., assignor to E. S. Rice, Chicago, Ill. Powder or shot feeding mechanism	528,097	Oct. 23	2396	579	69	486
Hisey, Charles S., Aurora, Ind., assignor to E. S. Rice, Chicago, Ill. Revolving crimper for cartridge-loading machines	528,098	Oct. 23	2397	579	69	486
Hisey, Charles S., Aurora, Ind., assignor to E. S. Rice, Chicago, Ill. Wad-feeding mechanism	528,099	Oct. 23	2399	580	69	487
Hisey, Charles S., Aurora, Ind., and E. S. Rice, Chicago, Ill.; said Hisey assignor to said Rice. Shell-carrier for cartridge-loading machines	527,983	Oct. 23	2194	{ 529 530 }	69	451
Hitch, David M., Laurel, Del. Dental articulator	530,524	Dec. 11	805	200	69	1379
Hitchcock, Edward B., Newton, Mass. Dental mirror	528,163	Oct. 30	2507	606	69	522
Hitchcock, Franklin H., Great Bend, Kans. Car-coupling	526,128	Sept. 18	1400	326	68	1431
Hitchcock, George A. (See Cunningham and Hitchcock.)						
Hitchcock, John S., Oneida, N. Y. Scrubbing-machine	530,689	Dec. 11	1095	265	69	1429
Hitchon, Alfred, Accrington, England. Separator mechanism for ring-spinning frames	527,389	Oct. 9	1171	287	69	233
Hitchon, Edwin, Accrington, England. Spindle-support	530,073	Nov. 27	2768	664	69	1203
Hitt, Adrian, Jersey City, N. J., assignor of five-eighths to H. G. Simon and I. J. Cobin, New York, N. Y. Hose-coupling	524,679	Aug. 14	1215	296	68	901
Hitt, Samuel E., Rockford, Ill. Electrical measuring or indicating instrument	514,075	Feb. 6	156	36	67	883
Hittle, Frank. (See Gressle, Theophilus E., assignor.)						
Hitzl, Carl, Attersee, Austria-Hungary, assignor to himself, and S. Hochstadter, New York, N. Y. Elevator	515,312	Feb. 20	2202	546	66	1299
Hoadley, Joseph H., San Francisco, Cal. Rope-driving apparatus	525,209	Aug. 28	2153	526	68	1097
Hoagland, Cornelius D., Brooklyn, N. Y. Combination brush and comb	524,023	Aug. 7	91	20	68	679
Hoagland, David, Norphlet, Ark. Rotary engine	512,883	Jan. 16	1959	{ 464 465 }	66	398
Hoagland, Susan M., Hulbertson, N. Y. Cooking utensil	523,524	July 24	2353	591	68	486
Hobart, Caleb E. P., Cherokee, Iowa. Planter	523,525	July 24	2354	591	68	486
Hobart, Frank G., Beloit, Wis. Steam-engine	513,929	Jan. 30	3644	899	66	822
Hobbs, Alfred, Syracuse, N. Y. Wall-plaster	520,783	June 5	39		67	1204
Hobbs, Clarence E., Milwaukee, Wis. Swing	526,151	Sept. 18	1443	337	68	1438
Hobbs, George P., Wheeling, W. Va. Axle	514,679	Feb. 13	1179	294	66	1093
Hobbs, George P., and A. L. Edwards, Wheeling, W. Va. Wheel	518,736	Apr. 24	2269	563	67	458
Hobbs, Horace, assignor, by mesne assignments, of one-half to A. W. Friese, Milwaukee, Wis. Ventilating-fan	521,114	June 5	644	151	67	1313
Hobbs, James C. H., Salem, Nebr. Whiffletree	521,028	June 5	487	116	67	1085
Hobbs, Riley P., Indianapolis, Ind. Capsule-pin and capsule	525,844	Sept. 11	929	207	68	1332
Hobbs, Riley P., Indianapolis, Ind. Capsule	525,845	Sept. 11	931	208	68	1332
Hobby, James S. (See Kinney and Hobby.)						
Hoblitzell, Frank W. (See Miller, Daniel L., assignor.)						
Hobron, Charles B., Boerne, Tex. Neck-yoke	523,573	July 24	2422	608	68	499
Hobson, Charles H., Mount Carmel, Pa. Lamp-carrier for miners' caps	524,528	Aug. 14	972	238	68	856
Hobson, Elbridge B., et al. (See Gregory, Nathan B., assignor.)						
Hobson, James F., New Antioch, Ohio. Burial-case	521,568	June 19	1463	342	67	1494
Hoch, Fred, Wauwatosa, Wis. Cable street-railway	521,500	June 19	1349	314	67	1474
Hoch, Frederick H., Valley Park, Mo. Brake for hay-frames	519,907	May 15	1698	414	67	883
Hochhaus, Emily. (See Hochhaus, John C., assignor.)						
Hochhaus, John C., assignor to E. Hochhaus, St. Paul, Minn. Wall-cleaning compound	524,327	Aug. 14	613		68	792
Hochhausen, William, Brooklyn, N. Y. Ceiling fan-motor	512,821	Jan. 16	1845	437	66	376
Hochhausen, William, Brooklyn, N. Y. Automatic speed-regulator for electric motors	516,651	Mar. 20	1529	{ 363 364 }	66	1769
Hochstadter, Sigmund. (See Hitzl, Carl, assignor.)						
Hochstetler, Moses L., Sugar Creek, Ohio. Wire-tightener	530,181	Dec. 4	186	46	69	1248
Hocker, Manderville E. (See Ingalls, Joseph A., assignor.)						
Hocking, Richard P., Mayaguez, Porto Rico. Coffee-drying apparatus	521,859	June 26	1957	{ 472 473 }	67	1603
Hodel, Joseph A., Cumberland, Md. Chimney-cowl	519,954	May 15	1771	434	67	896
Hodge, Alexander C., Menasha, Wis. Separable pulley	519,331	May 8	717	177	67	690

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Hodge, Leonard M., San José, Cal. Measuring-instrument	518,103	Apr. 10	1144	288	67	225
Hodge, Robert J., Boston, Mass. Fish-trap	527,606	Oct. 16	1538	371	69	311
Hodge, William, and J. Pearson, Timaru, New Zealand. Split-link center-pin hook	525,210	Aug. 28	2155	526	68	1098
Hodgens, James M., Greenwood, Ark. Tobacco-shelf	516,533	Mar. 13	1326	316	66	1715
Hodges, Addison S., Chelsea, assignor of one-half to A. H. Smith, Salem, Mass. Device for casting sash-weights	527,984	Oct. 23	2202	530	69	451
Hodges, Clarence B., and J. C. Wills, Detroit, Mich. Plug-valve	516,534	Mar. 13	1327	316	66	1715
Hodges, Horace F., and D. J. Havenstrite, assignors to C. B. Southard, trustee, Boston, Mass. Method of and apparatus for distilling water	520,525	May 29	2759	668	67	1108
Hodges, Jesse B., assignor of one-half to J. P. Woods, Salem Ark. Composition for tanning	526,229	Sept. 18	1578	.....	68	1463
Hodges, John H., Adler, Ark. Water elevator and carrier	523,911	July 31	3029	753	68	626
Hodges, Josiah K., and T. C. Dickson, Cheyenne, Wyo. Combined kitchen-cabinet and churn	517,457	Apr. 3	73	16	67	16
Hodgkins, Nelson D., assignor of one-half to F. O. Clark, Marquette, Mich. Hub-protector for vehicles	518,951	May 1	24	7	67	541
Hodgkins, Nelson D., assignor of one-half to F. O. Clark, Marquette, Mich. Hub-protector for wagons	529,909	Nov. 27	2447	588	69	1142
Hodgkins, Thomas J. (See Finch and Hodgkins.)						
Hodgkins, William C., Washington, D. C. Electric sash-balance	524,250	Aug. 7	477	112	68	748
Hodkinson, Peter, Newark, N. J. Boiler-furnace	530,269	Dec. 4	339	83, 84	69	1277
Hodgman, Walter E., <i>et al.</i> (See Rueemmler, Gustav A., assignor.)						
Hodgson, Albert J., Palmyra, Wis., assignor of two-thirds to R. W. Dugan and B. Shinkle, Covington, Ky. Steam-boiler furnace	522,059	June 26	2329	559	67	1672
Hodgson, Henry E. (See Copley and Hodgson.)						
Hodgson, Isaac and M. A., Chicago, Ill. Geographical globe	519,061	May 1	203	47	67	575
Hodgson, Isaac and M. A., Chicago, Ill. Geographical globe	531,035	Dec. 18	1668	396	69	1549
Hodgson, John G. (See Leavitt and Hodgson.)						
Hodgson, John G. (See Norton and Hodgson.)						
Hodgson, John G. (See Norton, Hodgson, and Leavitt.)						
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Machine for flanging or hemming edges of tin plates, &c.	522,254	July 3	135	32	68	26
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Machine for rolling or crimping end seams of sheet-metal cans	522,255	July 3	137	33	68	27
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Side-seam-soldering machine	522,256	July 3	138	33, 34	68	27
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Machine for soldering cans	522,257	July 3	142	34	68	28
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Can-soldering machine	522,258	July 3	143	35, 36	68	28
Hodgson, John G., assignor to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Can-testing machine	522,259	July 3	147	36, 37	68	29
Hodgson, Mary A. (See Hodgson, Isaac and M. A.)						
Hodgson, Thomas A., Ottawa, Canada. Knob attachment	529,792	Nov. 27	2248	536	69	1104
Hodshon, Ernest E. (See Snell, Charles M., assignor.)						
Hodson, Henry M., Spiceland, Ind. Plant-setter	519,712	May 15	1389	335	67	825
Hoe, Robert, <i>et al.</i> (See Crowell, Luther C., assignor.)						
Hoe, Robert, <i>et al.</i> (See Roesen, Oscar, assignor.)						
Hoeft, Hermann W., La Crosse, Wis. Sprocket-wheel	512,822	Jan. 16	1847	437	66	376
Hoeft, Hermann W., La Crosse, Wis. Means for propelling boats	515,682	Feb. 27	2812	701	66	1423
Hoeft, Hermann W., La Crosse, Wis. Violin-mute	516,093	Mar. 6	579	135	66	1560
Hoeft, Hermann W., La Crosse, Wis. Buckle	525,547	Sept. 4	388	94	68	1223
Hoeft, Hermann W., La Crosse, Wis. Clasp	526,781	Oct. 2	188	44	69	36
Höegh, Emil Von. (See Goerz and Höegh.)						
Hoehl, Frederick D., Pittsburg, Pa. Alarm-clock	512,963	Jan. 16	2091	{ 495 496 }	66	421
Hoell, Ole E. O., <i>et al.</i> , executors. (See Syversen, Andreas.)						
Hoekstra, Klaas, Battle Creek, Mich. Life-saving apparatus	530,525	Dec. 11	907	201	69	1379
Hoenk, Peter, Pottsdam, Minn. Roof-gutter	522,233	July 10	1139	262	68	231
Hoepfner, Carl, Giessen, Germany. Electrolytical apparatus	518,065	Apr. 10	1087	274	67	215
Hoeschen, Henry, Omaha, Nebr. Phonograph return-carriage	524,761	Aug. 21	1361	{ 331 332 }	68	940
Hoey, Michael J., Columbus, Ohio. Draw-bar attachment	526,527	Sept. 25	2108	502	68	1576
Hoey, William, Chicago, Ill. Hoisting mechanism	512,511	Jan. 9	1311	{ 316 317 }	66	259
Hoey, William, Grand Rapids, Mich. Hoisting mechanism	526,488	Sept. 25	2052	488	68	1505
Hofbauer, Frank X., assignor, by mesne assignments, to Armature Bell Company, Newark, N. J. Electric-fan motor	529,385	Nov. 20	1550	370	69	969
Hofbeck, Alphonse, Issy, France. Folding joint for bars or rods	531,121	Dec. 18	1825	433	69	1577
Hofe, John G. von, New York, N. Y. Metal-drilling attachment for fire-hose	518,814	Apr. 24	2393	591	67	480
Höfer, Josef, Sheboygan, Wis. Sled	522,060	June 26	2330	560	67	1672
Hoffheins, Franklin G., assignor to M. Schall, York, Pa. Fertilizer-distributor	523,856	July 31	2937	732	68	609
Hoffheins, Franklin G., assignor to M. Schall, York, Pa. Sulky-cultivator	523,857	July 31	2938	732	68	609
Hoffman, Alvin S. (See Chaffee, Hoffman, and Green.)						
Hoffman, Charles E. (See Foster and Hoffman.)						
Hoffman, Herman, Byron, Cal. Fumigator	525,497	Sept. 4	297	73	68	1207
Hoffman, James, New York, N. Y. Under-coat-sleeve holder	526,573	Sept. 25	2176	520	68	1588
Hoffman, Jeremiah M., Cressona, Pa. Adjustable window-shade support	518,737	Apr. 24	2270	564	67	458
Hoffman, Jeremiah M., Cressona, Pa. Combined window-cornice and curtain-support	530,270	Dec. 4	341	84	69	1278
Hoffman, Joseph, Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Press for molding plastic compounds	516,814	Mar. 20	1790	424	66	1817
Hoffman, Joseph, Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Commutator for dynamo-electric machines	523,663	July 31	2591	646	68	546
Hoffman, Nettie S. (See Paine and Hoffman.)						
Hoffman, Oliver B., Bloomsburg, Pa. Door-securer	525,418	Sept. 4	173	44	68	1182
Hoffman, Robert, Pittsburg, Pa. Pneumatic tire	520,643	May 29	2951	714	67	1145
Hoffman, Samuel, assignor to Scarritt Furniture Company, St. Louis, Mo. Reversible car-seat	531,122	Dec. 18	1827	{ 433 434 }	69	1578
Hoffman, Samuel V. (See Humphrey and Hoffman.)						
Hoffman, William, Boston, Mass. Game-board	519,041	May 1	168	40	67	569
Hoffman, William, Salt Lake City, Utah Ter. Pressure-governor for fluids	521,315	June 12	1000	235	67	1392
Hoffmann, Albert, and J. Brogan, Milwaukee, Wis. Bond-wire for electric conductors	514,714	Feb. 13	1234	307	66	1104
Hoffmann, Carl, assignor to Siemens & Halske, Berlin, Germany. Electric-arc lamp	518,719	Apr. 24	2232	{ 553 556 }	67	452
Hoffmann, Carl, assignor to Siemens & Halske, Berlin, Germany. Commutator	520,264	May 22	2331	566	67	1013

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Hoffmann, Carl, Charlottenburg, assignor to Siemens & Halske, Berlin, Germany. Apparatus for putting electric motors into circuit.....	526,810	Oct. 2	230	56	69	43
Hoffmann, Carl, and E. Richter, assignors to Siemens & Halske, Berlin, Germany. Utilizing electric motors for operating machinery.....	513,507	Jan. 30	2962	728	66	693
Hoffmann, Ernest G., New York, N. Y. Device for grinding twist-drills.....	521,615	June 19	1544	361	67	1508
Hoffmann, Henry, Minneapolis, Minn. Extensible ladder-tower.....	526,318	Sept. 18	1733	409	68	1495
Hoffmann, Mathias M., Dubuque, Iowa. Burial-casket.....	524,762	Aug. 21	1362	332	68	940
Hoffmann, Meinhard, and C. F. Daimler, Feehenheim, near Frankfort-on-the-Main, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Disazo dark-green dye.....	514,599	Feb. 13	1050	.....	66	1068
Hoffmann, Meinhard, and C. Krohn, Feehenheim, near Frankfort-on-the-Main, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Brown azo dye.....	514,931	Feb. 20	1584	.....	66	1185
Hoffmann, Meinhard, and C. Krohn, Feehenheim, near Frankfort-on-the-Main, assignors to L. Cassella & Co., Frankfort-on-the-Main, Germany. Gray azo dye.....	516,203	Mar. 13	770	.....	66	1613
Hoffmann, Otto. (See Kleiner, Bokmayer, and Hoffmann.)						
Hoffmann, Alvin M., Chicago, Ill. Process of and apparatus for preparing beer, &c., in receptacles for market.....	531,314	Dec. 25	2184	{ 522 523 524 }	69	1658
Hofmann, Frederick W. and P. C. A., Philadelphia, Pa. Fastening for preserve or fruit jars	523,206	July 17	1791	449	68	368
Hofmann, Philip C. A. (See Hofmann, Frederick W. and P. C. A.)						
Hofmeyer, George A., assignor to R. Hofmeyer, New York, N. Y. Lubricator.....	515,586	Feb. 27	2655	659	66	1397
Hofmeyer, Rosalie. (See Hofmeyer, George A., assignor.)						
Hogan, James T., Jersey City, N. J., assignor to National Machine Company, Troy and New York, N. Y. Feeding-mechanism for button hole sewing-machines.....	526,393	Sept. 25	1878	446	68	1535
Hogan, James V., and D. McGrath, Cleveland, Ohio. Means for operating pumps.....	525,148	Aug. 23	2052	501	68	1080
Hogan, John J., Brooklyn, N. Y. Water-tube boiler.....	520,882	June 5	228	{ 52 53 54 }	67	1239
Hogan, John J., Brooklyn, N. Y. Steam-dome for boilers.....	520,883	June 5	236	54	67	1240
Hogan, John J., Brooklyn, N. Y. Steam-separator for boiler-tubes.....	520,884	June 5	239	55	67	1241
Hogan, John J., Brooklyn, N. Y. Boiler in vertical sections.....	520,885	June 5	240	{ 55 56 }	67	1241
Hogan, Michael D., Bethesda, assignor of one-third to H. Claude, Annapolis, Md. Waste-oil purifier.....	513,787	Jan. 30	3427	845	66	778
Hogan, Thomas J., assignor to Westinghouse Air Brake Company, Pittsburg Pa. Quick-action-valve mechanism for air-brakes.....	519,908	May 15	1699	415	67	883
Hogan, William K., Bradford, Pa. Reciprocating propeller for vessels.....	516,535	Mar. 13	1328	{ 316 317 318 }	66	1716
Hogarth, James, Kirkcaldy, Scotland. Mechanism for testing and recording properties of flour.....	529,175	Nov. 13	1173	{ 282 283 284 }	69	880
Hogbin, Elmer, Camden, N. J. Sectional horseshoe.....	519,453	May 8	928	224	67	730
Hoge, Harriet H., Portland, Oreg. Vapor face-bath.....	527,758	Oct. 16	1778	428	69	358
Hogeboom, Levi S., Three Rivers, assignor to Knickerbocker Company, Jackson, Mich. Dust-collector.....	530,642	Dec. 11	1018	249	69	1416
Hogeland, Israel, Chicago, Ill. Apparatus for forging tires.....	518,815	Apr. 24	2395	592	67	481
Hogg, Frank T., Brownsville, Pa. Cable-grip.....	513,014	Jan. 16	2171	517	66	436
Hogg, Franklin S., New York, N. Y. Fender for tram-cars.....	518,571	Apr. 17	1965	485	67	390
Hogg, Franklin S., assignor to himself and B. B. Higgins, New York, N. Y. Car-fender.....	523,526	July 24	2356	591	68	486
Hogg, Raphael, Neustadt, Germany. Self-waiting table.....	519,630	May 8	1254	301	67	786
Hoggson, Samuel H., assignor of one-half to W. H. Stevenson, St. Louis, Mo. Electric battery.....	520,429	May 23	2603	630	67	1081
Hoggson, Samuel H., assignor of one-half to W. H. Stevenson, St. Louis, Mo. Stand, table, or analogous article.....	520,430	May 29	2604	630	67	1081
Hogue, Charles P., Portland, Oreg. Carrier.....	528,775	Nov. 6	447	110	69	728
Hogue, Lovren E., assignor of one-half to W. R. Field, Greenville, Pa. Injector.....	515,683	Feb. 27	2813	701	66	1429
Hogue, Parker P., Cincinnati, Ohio, assignor to Automatic Injector Company, of Ohio. Injector.....	527,493	Oct. 16	1341	327	69	279
Hohenstein, Hugo, New York, N. Y. Lamp-shade.....	524,825	Aug. 21	1470	359	68	961
Hohmann, Peter, Stapleton, N. Y. Life-preserver.....	514,680	Feb. 13	1180	294	66	1093
Hoile, James T., Farmingdale, N. Y. Combination-lock.....	513,325	Jan. 23	2646	642	66	599
Hoke, Edward, Fort Recovery, assignor of one-half to E. Swigart, Cincinnati, Ohio. Wall-paper-border measurer and cutter.....	526,038	Sept. 18	1244	288	68	1403
Hoke, Harry E., Jr. (See Hoke, Henry E., and H. E., Jr.)						
Hoke, Henry E., and H. E., Jr., Chambersburg, Pa. Car-door.....	522,061	June 26	2332	560	67	1673
Hoke, John I., South Bend, Ind. Pivoted tooth-bar.....	518,603	Apr. 24	2014	500	67	414
Hoke, John I., South Bend, Ind. Straddle-row wheel-cultivator.....	519,631	May 8	1255	302	67	787
Hoke, William E., St. Louis, Mo. Pantograph.....	514,992	Feb. 20	1672	419	66	1201
Holbert, Clarence E., St. Joseph, Mo. Sanding device for cars.....	517,044	Mar. 27	2191	519	66	1910
Holbrook, John B., New York, N. Y. Folding ladder for sleeping-cars.....	519,184	May 1	439	108	67	622
Holden, Daniel L., assignor to K. M. Holden, New York, N. Y. Apparatus for manufacturing ice.....	530,526	Dec. 11	808	201	69	1379
Holden, Daniel L., New York, N. Y., and L. W. Serrell, Plainfield, N. J., assignors to K. M. Holden, New York, N. Y. Ice-making apparatus.....	530,527	Dec. 11	810	201	69	1380
Holden, David W., Gardiner, Oreg. Hook.....	518,452	Apr. 17	1771	439	67	356
Holden, Edward. (See Lones, Vernon, and Holden.)						
Holden, Edward P., Chicago, Ill. Can-seaming machine.....	522,414	July 3	413	{ 105 106 }	68	82
Holden, Frank, Lynn, assignor to General Electric Company, Boston, Mass. Damping-device for electrical measuring-instruments.....	518,245	Apr. 17	1400	350	67	289
Holden, George R. (See Ross, James J., assignor.)						
Holden, John W. (See Skipper, James M., assignor.)						
Holden, Kathryn M. (See Holden, Daniel L., assignor.)						
Holden, Kathryn M. (See Holden and Serrell, assignors.)						
Holden, Louis E., et al. (See Burton, Charles C., assignor.)						
Holderness, Herbert L. (See Simmonite and Holderness.)						
Holdfast Sole Stay Company. (See Goding, Edwin L., assignor.)						
Holdridge, Charles A., Fenton, Mich. Oil-burner.....	517,341	Mar. 27	2697	623	66	2009
Holehouse, Thomas. (See Morley and Holehouse.)						
Holgate, George H. (See Vogt, Wilhelm, assignor.)						
Holihan, George T. (See Stewart, Robert A., assignor.)						
Holladay, Leonidas. (See Cotter, Holladay, and Duncan.)						
Holland, Charles E. (See Perry and Holland.)						
Holland, Elias C., Austin, assignor to Union Special Sewing Machine Company, Chicago, Ill. End-cap for cylinder sewing-machines.....	519,909	May 15	1702	415	67	884

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Holland, George E. (See Furman and Holland.)						
Holland, Henry P., San Francisco, Cal. Rotary engine	521,541	June 19	1416	328	67	1485
Holland, Henry P., San Francisco, Cal. Excavator and elevator	521,883	June 26	1995	482	67	1611
Holland, John P., Newark, N. J. Submarine torpedo-boat	522,177	June 26	2531	{ 607 608 }	67	1711
Holland, Mary C. (See Walton, John, assignor.)						
Holland Radiator and Manufacturing Company. (See Holland, Timothy, assignor.)						
Holland, Robert J., Nevada, Cal. Drill-chuck	519,454	May 8	929	224	67	730
Holland, Timothy, assignor to Holland Radiator and Manufacturing Company, Chicago, Ill. Radiator	511,843	Jan. 2	151	38	66	32
Hollar, William H., Philadelphia, Pa. Safe-lock	518,453	Apr. 17	1771	439	67	357
Holleman, Frederik A., Oisterwijk, The Netherlands. Controlling and discharge valve for compressed-air brakes	527,855	Oct. 23	1952	{ 468 469 }	69	406
Hollenbeck, Frank A., assignor to Syracuse Arms Company, Syracuse, N. Y. Cocking mechanism for breakdown guns	519,126	May 1	331	78	67	601
Hollenbeck, Frank A., assignor to Syracuse Arms Company, Syracuse, N. Y. Shifting mechanism for cocking-arms of breakdown guns	520,959	June 5	375	92	67	1266
Hollenbeck, Frank A., assignor to Syracuse Arms Company, Syracuse, N. Y. Fore-end fastening for guns	522,594	July 10	718	184	68	156
Hollenbeck, Frank A., assignor to Syracuse Arms Company, Syracuse, N. Y. Breakdown gun	523,527	July 24	2357	592	68	486
Hollenbeck, Frank A., assignor to Syracuse Arms Company, Syracuse, N. Y. Movable cocking-shoulder for breakdown guns	523,813	July 31	2853	709	68	594
Hollenbeck, Frank A., assignor to Syracuse Arms Company, Syracuse, N. Y. Shifting means for cocking-arms of breakdown guns	524,144	Aug. 7	305	72	68	718
Hollenbeck, Frank A., assignor to Syracuse Arms Company, Syracuse, N. Y. Shifting means for cocking arms and hammers	524,145	Aug. 7	306	72	68	718
Holler, Frank. (See Haug and Holler.)						
Hollerith, Herman, Washington, D. C. Electrical calculating system	518,604	Apr. 24	2015	{ 500 501 502 }	67	414
Hollerith, Herman, Washington, D. C. Tabulating system	518,885	Apr. 24	2495	{ 618 619 620 }	67	500
Hollerith, Herman, Washington, D. C. Tabulating system	518,886	Apr. 24	2506	621	67	502
Hollerith, Herman, Washington, D. C. Machine for compiling or tabulating statistics	526,129	Sept. 18	1402	326	68	1431
Hollerith, Herman, Washington, D. C. Machine for tabulating statistics	526,130	Sept. 18	1405	{ 327 328 }	68	1432
Holliday, William, and T. F. Rawls, Barnett, Miss. Railway-switch and locomotive attachment for operating same	528,880	Nov. 6	656	157	69	766
Hollidge, George H., Tacoma, Wash. Bedclothes-holder	528,432	Oct. 30	2976	720	69	606
Holliger, Daniel J., Canton, Ohio. Oil-can	519,042	May 1	170	41	67	569
Hollinger, Isaac K., Greenville, Ohio. Fence-wire tightener	515,936	Mar. 6	318	76	66	1512
Hollinger, Isaac K., Greenville, Ohio. Iron fence and gate	528,164	Oct. 30	2508	606	69	522
Hollingsworth, Alfred J., West New Brighton, and J. A. Weaver, New York, N. Y. Fender for street-railway cars	525,902	Sept. 11	1022	231	68	1350
Hollingsworth, Daniel H., Brooklyn, N. Y. Shears	521,526	June 19	1395	322	67	1482
Hollingsworth, Jephtha G., Kansas City, Mo. Forming tooth-crowns	523,472	July 24	2260	568	68	467
Hollingsworth, Jephtha G., Kansas City, Mo., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental tool	527,690	Oct. 16	1668	402	69	338
Hollingsworth, Loftus, Chicago, Ill. Adjustable bearing for journals	526,131	Sept. 18	1408	328	68	1433
Hollingsworth, William, and J. Korbel, San Francisco, Cal. Machine for stretching band-saws	529,551	Nov. 20	1866	444	69	1024
Hollis, Charles P., Boston, Mass. Music-turner	520,207	May 22	2331	{ 542 543 }	67	994
Hollis, Charles W. (See Kettton and Hollis.)						
Hollis, Henry L., Chicago, Ill. Removing tin from tin-plate scrap	511,774	Jan. 2	51	13	66	13
Hollis, Rodolphus W., Atlanta, Ga. Automatic rheostat	531,617	Dec. 25	2712	650	69	1761
Hollis, William. (See Ernold and Hollis.)						
Hollister, Albert G., Hartford, Conn. Depth-gage	526,105	Sept. 18	1361	317	68	1424
Holloway, Charles. (See Kelly and Holloway.)						
Holloway, Charles T. (See Callaghan, William S., assignor.)						
Holloway, J. K., et al. (See Snook, Frank M., assignor.)						
Holm, John J., Madison, Wis. Combination trunk, bookcase, and writing-desk	529,793	Nov. 27	2249	536	69	1104
Holman, Alfred, et al. (See Bailey, Richard G., assignor.)						
Holman, Joseph W., assignor of one-third to O. J. Price, Detroit, Mich. Button-separator	527,394	Oct. 9	1178	{ 388 389 }	69	234
Holman, William A., Philadelphia, Pa. Easel-album	513,108	Jan. 23	2295	555	66	530
Holmes, Albro O. (See Tanner, Allen J., assignor.)						
Holmes, Allan, Dunedin, New Zealand. Landing-net	524,942	Aug. 21	1664	407	68	994
Holmes, Booth & Haydens. (See Hayden, Hiram W., assignor.)						
Holmes, Britain. (See Holmes, Edward and B.)						
Holmes, Daniel M., Arlington, N. J. Machine for molding confectionery	528,722	Nov. 6	345	84	69	709
Holmes, Daniel M., Arlington, N. J. Machine for molding confectionery	528,723	Nov. 6	347	84, 85	69	709
Holmes, Daniel M., Arlington, N. J., assignor to J. R. Van Derveer, New York, N. Y. Machine for forming articles of pastry or confectionery	518,454	Apr. 17	1773	{ 439 440 }	67	357
Holmes, Edward and B., Buffalo, N. Y. Device for directing hoops on barrels	512,704	Jan. 16	1616	388	66	332
Holmes, Frank D., et al. (See Jaeger, Winfield S., assignor.)						
Holmes, George W., Cincinnati, Ohio. Carriage-brake	513,577	Jan. 30	3091	760	66	717
Holmes, Gilman D. (See Judson and Holmes.)						
Holmes, Grant, Danville, Ill. Steam-shovel	519,955	May 15	1772	434	67	896
Holmes, Henry M., Ayer, Mass. Dinner-pail	531,533	Dec. 25	2569	615	69	1732
Holmes, Jacob W., Okoboji, S. D. Car-coupling	512,029	Jan. 2	501	119	66	96
Holmes, James, and K. Peterson, Jamestown, N. Y. Mortising-machine	519,502	May 8	1015	246	67	744
Holmes, John, Newark, N. J. Separable button	527,555	Oct. 16	1444	352	69	297
Holmes, John, Boston, Mass. Combination undergarment	529,493	Nov. 20	1764	419	69	1006
Holmes, John W., Louisville, Ky. Collapsible core-barrel	530,108	Dec. 4	56	15	69	1225
Holmes, Nathan L., assignor to Acme Adjustable Pole Company, Racine, Wis. Carriage-pole	524,826	Aug. 21	1472	359	68	961
Holmes, Philip H., Gardiner, Me. Stopper for bottles, jars, &c	512,705	Jan. 16	1618	389	66	333
Holmes, Sarah E., Needham, Mass. Knitted doll	526,319	Sept. 18	1735	410	68	1495
Holmes, Thomas, Chicago, Ill. Automatic sprinkler	512,030	Jan. 2	503	119	66	96
Holmes, William A. B., et al. (See Jaeger, Winfield S., assignor.)						
Holmes, William W., Chicago, Ill., assignor, by mesne assignments, to Servis Railroad Tie Plate Company. Railway tie-plate	514,465	Feb. 13	821	208	66	1025

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Holmes, William W., Chicago, Ill., assignor, by mesne assignments, to Servis Railroad Tie Plate Company. Railway tie-plate.....	514,466	Feb. 13	832	208	66	1026
Holmes, William W., Chicago, Ill., assignor, by mesne assignments, to Servis Railroad Tie Plate Company. Railway tie-plate and making same.....	514,467	Feb. 13	834	208	66	1026
Holmes, William W., assignor to C. F. Quincy, Chicago, Ill. Shop-saw.....	525,211	Aug. 28	2155	526	68	1098
Holmes, William W., assignor to C. F. Quincy, Chicago, Ill. Shop-saw.....	525,212	Aug. 28	2157	527	68	1098
Holmes, William W., assignor to Q. & C. Company, Chicago, Ill. Guide-bracket and wedge for sliding doors.....	530,182	Dec. 4	187	46	69	1248
Holmgren, Alfred, New York, N. Y., assignor of two-thirds to J. Draper, Wilmington, Del., and J. Barnes, Brooklyn, N. Y. Cylinder and valve for steam-motors.....	528,227	Oct. 30	2625	633	69	543
Holroyd, John, C. B. Hunt, and R. J. Johns, assignors to New Branston Two Reel Sewing Machine Company, Limited, London, England. Sewing-machine.....	521,372	June 12	1107	260 261 262	67	1413
Holsclaw, Wilford H., assignor to B. F. Avery & Sons, Louisville, Ky. Gang plow.....	530,047	Nov. 27	2712	651	69	1194
Holsclaw, Wilford H., assignor to B. F. Avery & Sons, Louisville, Ky. Cultivator.....	530,844	Dec. 11	1337	321	69	1474
Holt, Frank, South Pittsburg, Tenn. Plumb-level.....	519,576	May 8	1161	280	67	771
Holt, Frank, South Pittsburg, Tenn. Plumb-rule.....	525,213	Aug. 28	2159	527	68	1099
Holt, Hosea E., Lexington, Mass. Combined chart-stand and easel.....	512,471	Jan. 9	1250	301	66	248
Holt, James H., Fairfield Centre, Me. Coasting-sled.....	529,494	Nov. 20	1765	420	69	1006
Holt, Jesse. (See Grindrod, John T., assignor.)						
Holt, Leopold, Frankfort-on-the-Main, Germany. Pneumatic tire.....	513,639	Jan. 30	3194	783	66	735
Holt, Leopold, Frankfort-on-the-Main, Germany. Inflating-pump for inflating pneumatic tires.....	515,474	Feb. 27	2479	613	66	1362
Holt, Noah W., Manchester, Mich. Separating-machine.....	513,613	Jan. 30	3146	772 773	66	727
Holt, Noah W., Manchester, Mich. Purifier and dust-collector.....	513,788	Jan. 30	3428	846 847 457	66	778
Holt, Noah W., Manchester, Mich. Separating materials of different specific gravities.....	525,048	Aug. 28	1872	458 459	68	1049
Holt & Willets. (See Powell, John W., assignor.)						
Holtmann, Charles, and N. Schmidt, Pittsburg, Pa. Device for preventing railway collisions.....	522,757	July 10	1025	254	68	208
Holton, W. F., et al. (See Rush, William S., assignor.)						
Holtzouser, Jacob, New Britain, Conn. Weighing-scale.....	527,427	Oct. 16	1232	302	69	257
Holyoke Envelope Company. (See Hess, John A., assignor.)						
Holyoke Envelope Company. (See Teal, Charles A., assignor.)						
Holyoke Machine Company. (See Ingram and Moore, assignors.)						
Holz, Frederick, assignor to Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling-machine.....	513,683	Jan. 30	3265	803 804	66	748
Holzbach, William T., Niles, Ohio. Sheet-metal roofing.....	511,775	Jan. 2	52	13	66	13
Holzhauser, Frederick, Detroit, Mich. Pocket-book holder.....	520,431	May 29	2605	630	67	1081
Hülzle, Franz X., Heidelberg, Germany. Rotating letter-press printing-machine.....	519,956	May 15	1774	434 435	67	897
Holzman, Michael, et al. (See Darley, John W., Jr., assignor.)						
Homan, Eugene, New York, N. Y. Coin-controlled machine for throwing dice.....	512,031	Jan. 2	505	119 120	66	97
Homan, Eugene, New York, N. Y. Bicycle.....	529,267	Nov. 13	1337	320	69	908
Homan, Frank H., Patchogue, N. Y. Spring-seat.....	519,792	May 15	1519	370	67	849
Homan, Frank H., Patchogue, N. Y. Wheel-fender and safety attachment for street-cars.....	522,115	June 26	2421	551 552	67	1689
Homer, Arthur B., Galveston, Tex. Spool or bobbin holder.....	516,332	Mar. 13	972	230	66	1650
Homer, Chauncey S., assignor to M. T. Homer, Warren, Pa. Flexible cover for tables, blinds, desks, &c.....	520,526	May 29	2762	668	67	1109
Homer, Joseph, Providence, R. I. Shoe-lace fastener.....	515,684	Feb. 27	2815	701	66	1429
Homer, M. T. (See Homer, Chauncey S., assignor.)						
Homer Steel Fence Company. (See Van Wagoner, Charles H., assignor.)						
Hone, Samuel C., St. Paul, Minn. Bicycle-lock.....	525,953	Sept. 11	1094	249	68	1362
Honeycutt, A. D. (See Duggan, Nicholas S., assignor.)						
Honsuckle, William R., Boston, Mass. Animal leg.....	519,593	May 8	1018	246	67	744
Hood, Charles, Puyallup, Wash. Spray-nozzle.....	516,931	Mar. 20	1988	467	66	1855
Hood, Charles F., Pittsburg, Pa., assignor to Pittsburg Chemical Company, of Pennsylvania. Extracting apparatus.....	530,893	Dec. 11	1418	337	69	1488
Hood, Charles L., et al. (See Grieser, Henry, assignor.)						
Hood, John, and S. H. Reynolds, Boston, Mass. Dental chair.....	518,887	Apr. 24	2511	621	67	503
Hood, Otis, Onset, Mass. Car-coupling.....	522,984	July 17	1394	348	68	295
Hoofnagle, William T., Baltimore, Md. Tack-driving machine.....	527,985	Oct. 23	2204	531	69	452
Hoogerzeil, Peter, Beverly, Mass. Steam or baking pan.....	512,615	Jan. 9	1463	353	66	288
Hook, Gilman, Harwich, Mass. Spit for jibs.....	522,524	July 3	593	152	68	117
Hooker, James J., and B. W. Putnam, Cincinnati, Ohio. Twine-holder.....	520,312	May 22	2403	584	67	1026
Hooker, William C., Abingdon, Ill. Gate.....	515,430	Feb. 27	2415	598	66	1350
Hooker, William C., Abingdon, Ill. Animal-trap.....	528,671	Nov. 6	269	66	69	694
Hooker, William H., Jersey City, N. J. Apparatus for extracting grease from water of condensation from steam-engines.....	516,738	Mar. 20	1683	399	66	1797
Hookham, George, Birmingham, England. Manufacturing flat zigzag springs.....	527,856	Oct. 23	1954	469	69	406
Hooper, Francis X., Baltimore, Md. Apparatus for drying printed or varnished paper.....	512,377	Jan. 9	1067	260	66	213
Hooper, George H., Hague, N. Y. Ore-concentrator.....	524,592	Aug. 14	1068	264	68	874
Hooper, George H., Hague, N. Y. Ore-concentrator.....	524,593	Aug. 14	1070	264 265	68	875
Hooper, George L., Denver, Colo. Ore-sampler.....	523,664	July 31	2593	646	68	546
Hooper, George W., assignor to J. S. Baker, Rochester, N. Y. Trolley for electric railways.....	518,952	May 1	25	7	67	541
Hooper, Irvin G., Newark, N. J. Grain-drier.....	522,925	July 17	1395	348 349	68	295
Hooper, Josephus, Louisville, Ky. Converting cast-iron blanks into steel and the manufacture of edge tools therefrom.....	522,595	July 10	720	184	68	156
Hooper, Louis M., Rutherford, N. J., assignor to J. L. Mott Iron Works, New York, N. Y. Closet-pull attachment.....	523,123	Nov. 13	1074	259	69	862
Hooper, Mary P. C., New York, N. Y. Work-holder.....	517,660	Apr. 10	727	183	67	155
Hoopes, Clement R., Ogontz, Pa. Burglar-alarm.....	521,239	June 12	661	203	67	1366
Hoopes, Frank G., Baltimore, Md. Barrel-machine.....	524,550	Aug. 14	1012	249	68	863
Hope, John, Providence, R. I. Pantograph roll or plate.....	518,921	Apr. 24	2565	634	67	513
Hope-Jones, Robert, Birkenhead, England. Organ.....	514,146	Feb. 6	272	67, 68	66	905

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Hope-Jones, Robert, Birkenhead, England. Organ	522,209	July 3	46	{ 11 12 13 14 }	68	11
Hopedale Machine Company. (See Rhoades and Draper, assignors.)						
Hopedale Machine Screw Company. (See Roper, Charles F., assignor.)						
Hopkins, Albert A., Brooklyn, assignor to himself and W. D. Wright, New York, N. Y. Cigar-tip cutter	519,332	May 8	719	177	67	690
Hopkins, Charles S., Arlington, N. J., assignor to Electric Boiler Company, Rochester, N. Y. Boiler	519,285	May 1	621	{ 150 151 }	67	657
Hopkins, Francis A. (See Lawrence and Hopkins.)						
Hopkins, George M., New York, N. Y. Turbine	521,713	June 19	1704	400	67	1540
Hopkins, Harvey A., et al. (See Page, Herbert S., assignor.)						
Hopkins, Harvey L. (See Nunamaker, John W., assignor.)						
Hopkins, James S. (See Gates, Caleb C., assignor.)						
Hopkins, Marcus S., and C. H. Dickson, Washington, D. C.; said Hopkins assignor to said Dickson. Fluid-pressure regulator	526,320	Sept. 18	1736	410	68	1496
Hopkins, Richard E., McGaheysville, Va. Plow	525,762	Sept. 11	764	177	68	1303
Hopkins, Robert G., Somerville, assignor to Carter, Dinsmore & Co., Boston, Mass. Bottle-stopper and ink-filler	515,587	Feb. 27	2657	659	66	1398
Hopkins, Robert G., Somerville, assignor to Carter, Dinsmore & Co., Boston, Mass. Machine for reeling, measuring, and severing type-writer or other ribbons	524,088	Aug. 7	200	44, 45	68	698
Hopkins, Robert G., Somerville, assignor to Carter, Dinsmore & Co., Boston, Mass. Machine for inking ribbons for type-writer machines	524,276	Aug. 7	516	{ 120 121 }	68	754
Hopkins, Robert G., Somerville, Mass., assignor to Carter, Dinsmore & Company, Boston, Mass., and New York, N. Y. Ribbon-case for type-writing machines	530,307	Dec. 4	406	102	69	1289
Hopkins, Samuel C., U. S. Army. Combined cot and wardrobe	517,458	Apr. 3	75	16	67	17
Hopkins, Thomas J. (See Eyre and Hopkins.)						
Hopkins, William B., Washington, D. C. Lawn-tennis apparatus	523,912	July 31	3030	753	68	626
Hopkins, William H., St. Louis, Mo. Portable umbrella-holder	520,053	May 22	1944	476	67	943
Hopkins, William H., Albany, and G. B. Simons, Blalock, Oreg. Sliding gate	512,296	Jan. 9	938	228	66	190
Hopkins, William J., and T. Stebbins, Boston, Mass., assignors to Thomson-Houston Electric Company, of Connecticut. Electric-motor controller	520,784	June 5	40	9	67	1204
Hopkins, William W., assignor to Standard Adding Machine Company, St. Louis, Mo. Adding, subtracting, and recording machine	517,383	Mar. 27	2763	{ 651 652 653 654 }	66	2022
Hopkinson, Edward, Manchester, England. Electric locomotive	522,834	July 10	1139	282	68	231
Hopkinson, Edward, Manchester, England. Electric crane	522,835	July 10	1141	283	68	231
Hopkinson, John A. and J. Huddersfield, England. Guard for water-gages	519,957	May 15	1775	435	67	897
Hopkinson, Joseph. (See Hopkinson, John A. and J.)						
Hopkirk, James, San Francisco, Cal. Reversible driving-gear for cars	529,268	Nov. 13	1338	321	69	908
Hopler, Frank H., assignor to L. Barnes, Philadelphia, Pa. Bridge	518,648	Apr. 24	2095	523	67	428
Hopper, Henry S., Detroit, Mich. Hoop for barrels, &c.	523,281	July 17	1917	482	68	391
Hopper, William J., assignor of one-half to J. E. Robinson, McLeansborough, Ill. Band-cutter	521,115	June 5	645	152	67	1313
Hopson, Douglas. (See Burk, Lemon O., assignor.)						
Hopson, John, Jr., New London, assignor of one-half to Waterbury Clock Company, Waterbury, Conn. Finishing metals in imitation of falence	530,342	Dec. 4	474	.....	69	1300
Horan, Patrick J. (See Flint, Joseph A., assignor.)						
Horn & Brannen Manufacturing Company. (See Horn, Herman, assignor.)						
Horn, Christian, Philadelphia, Pa. Cigar-piercer	523,858	July 31	2940	733	68	609
Horn, Eduard, Munich, Germany. Window-shade	518,246	Apr. 17	1401	351	67	289
Horn, Franklin S. (See Maag and Horn.)						
Horn, George A. (See Horn, Henrietta, assignor.)						
Horn, George A. (See Ricker, John W., assignor.)						
Horn, Henrietta, assignor of one-half to G. A. Horn, Newark, N. Y. Adjustable pattern for drafting garments	514,622	Feb. 13	1081	270	66	1075
Horn, Herman, Philadelphia, Pa., assignor to Horn & Brannen Manufacturing Company, of Pennsylvania. Electric-light fixture	530,343	Dec. 4	476	118	69	1301
Horn, Jacob M., and M. Mayer, New York, N. Y. Ankle-supporting shoe	522,371	July 3	331	85	68	85
Horn, James W., Arba, Ind. Detonating burglar-alarm	530,947	Dec. 18	1516	359	69	1522
Horn, Marie, Berlin, Germany. Garment measuring and drafting apparatus	525,019	Aug. 28	1813	442	68	1038
Hornberger, John F., Lawrenceburg, Ind. Device for steaming coffee, tea, &c.	530,308	Dec. 4	408	102	69	1289
Hornburger, Curtis, assignor of one-half to M. F. Triplett, Harrisonville, Mo. Apparatus for retouching negatives	522,372	July 3	332	86	68	66
Horne, George A., Syracuse, N. Y. Safety-sear	520,596	May 29	2880	697	67	1132
Horne, George A., Syracuse, N. Y. Ejecting or cocking mechanism for breakdown guns	528,228	Oct. 30	2626	634	69	543
Horne, Edward G., Elmore, Tex. Fumigator	524,943	Aug. 21	1666	407	68	994
Horne, John H. (See Dillon, Peter, assignor.)						
Horne, John H., Lawrence, Mass. Roll-bar for pulp-engines	520,960	June 5	377	92	67	1266
Horner, Scott, et al. (See Wise, Benjamin F., assignor.)						
Hornig, Julius L., assignor of one-half to T. H. Warmb, St. Louis, Mo. Conduit electric railway	528,205	Oct. 30	2586	625	69	536
Horning, Robert A., assignor of one-half to H. Hepfer, Lanark, Ill. Hobby-horse	517,142	Mar. 27	2362	{ 557 558 }	66	1943
Hornor, Charles A. (See Hornor and Egan.)						
Hornor, Edward C., Somerville, Tenn. Catamenial sack	520,113	May 22	2050	501	67	963
Hornor, Thomas M. and C. A., and T. L. Egan, Weston, W. Va. Hood for stoves	514,003	Feb. 6	45	11	66	863
Hornsey, John W. (See Wright and Hornsey.)						
Horovsky, Zdenko, Duquesne, Pa. Apparatus for the manufacture of tubing	529,910	Nov. 27	2448	{ 588 589 590 }	69	1142
Horr, Henry R., and D. H. McFall, Red Lodge, Mont. Safety-envelope	518,189	Apr. 10	1284	325	67	250
Horrie, David, Kaukauna, Wis. Railway-frog	519,577	May 8	1163	280	67	771
Horrie, David, Kaukauna, Wis. Railway-frog	528,776	Nov. 6	419	{ 110 111 }	69	728
Horry, William S., New York, N. Y., assignor of one-half to W. F. Smith, Philadelphia, Pa. Working arc lamps	523,401	July 24	2121	532	68	444
Horsfall & Bickham. (See Senior, Wood, Hughes, and Hemingway, assignors.)						
Horst, Emil C., Sacramento, Cal. Hop-trier	513,789	Jan. 30	3433	847	66	779
Horst, Samuel W. (See Sensenig, Aaron H., assignor.)						
Horstmeier, John C., Baltimore, Md. Guard for sawmills	525,603	Sept. 4	472	113	68	1239

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Horton, Charles H., Wellington, Ohio. Brick-machine	524,438	Aug. 14	823	{ 201 202 }	68	829
Horton, David D., Washington, D. C., assignor of one-half to H. Bishop, New York, N. Y. Rein-holder	523,769	July 31	2779	689	68	579
Horton, Emmet, Dundee, N. Y. Berry-harvester	520,054	May 22	1946	476	67	943
Horton, Emmet, Dundee, N. Y., assignor of one-half to R. G. Du Bois, Washington, D. C. } Basket-making machine	530,048	Nov. 27	2715	{ 652 653 }	69	1194
Horton, James A., Greenfield, Mass. Mailing-machine	519,185	May 1	440	108	67	623
Horton, James A., and S. M. Qnest, New Castle, Pa. Stove	515,147	Feb. 20	1924	482	66	1247
Horton, Peter D., assignor to W. H. H. Hussey and W. H. Hinton, Oakland, Cal. Bubble-blower	517,118	Mar. 27	2327	548	66	1937
Horton, Robert P., et al. (See Herrington, Ephraim, assignor.)						
Horton, Robert P., et al. (See Herrington and Butler, assignors.)						
Horton, Stephen A., Clarksville, Tex. Bit for well-drilling apparatus	517,459	Apr. 3	77	17	67	17
Horton, Stephen A., Clarksville, Tex. Well-drilling apparatus	519,405	May 8	855	207	67	716
Horton, Stephen A., Clarksville, Tex. Well-drilling apparatus	526,708	Oct. 2	64	16	69	15
Horton, Stephen A., Clarksville, Tex. Well-drilling apparatus. (Reissue)	511,446	Oct. 16	1760	429	69	359
Horton, William J., Halifax, Canada. Fire-ladder apparatus	528,126	Oct. 23	2144	{ 591 592 }	69	496
Horton, William P., Jr. (See Jones, Ansel B., assignor.)						
Horwitz, Joseph D. (See Prader, Andrew, assignor.)						
Horwitz, Moritz, Berlin, Germany. Burner for incandescent gas-lighting	530,775	Dec. 11	1238	300	69	1456
Hosack, Thomas T., Oil City, assignor of two-thirds to A. S. Service and S. K. Potter, Sharon, Pa. Knife or scissors sharpening device	522,373	July 3	337	87	68	66
Hoschke, William H., Brooklyn, N. Y. Damper attachment for Swiss music-boxes	531,036	Dec. 18	1669	396	69	1549
Hoschke, William H., Brooklyn, N. Y. Automatic musical instrument	531,037	Dec. 18	1670	{ 396 397 }	69	1549
Hosea, Jefferson. (See Davis, Jesse M., assignor.)						
Hosea, Lewis M. (See Anderson and Hosca.)						
Hoselton, Clarence D., Drayton, N. D. Grain-separator	529,911	Nov. 27	2452	{ 500 501 }	69	1143
Hoshouer, Henry K., Canton, Ohio. Salky attachment for plows	516,536	Mar. 13	1329	317	66	1716
Hoskins, H. C., et al. (See Nevill, William B., assignor.)						
Hoskins, William, Chicago, Ill. Luminous sign	529,073	Nov. 13	999	239	69	847
Hoskins, William P., Birmingham, England. Bedstead	513,684	Jan. 30	3268	804	66	749
Hoskins, William P., Birmingham, England. Bedstead-frame	513,685	Jan. 30	3269	804	66	749
Hossfeld, Otto, and P. Kiessner, Berlin, Germany. Bill-file	523,947	Nov. 13	795	{ 185 186 }	69	811
Hosler, John T., Kalamazoo, Mich. Coupling device	515,337	Feb. 27	2258	559	66	1321
Hotchkiss, Albert G., New York, N. Y. Machine for forming wrappers or blanks of paper and metal foil	516,932	Mar. 20	1988	{ 407 408 }	66	1855
Hotchkiss Ordnance Company. (See Parkhurst, Edward G., assignor.)						
Hotchkiss, Seymour E., Wallingford, Conn. Insect-powder distributor	519,471	May 8	967	233	67	735
Hott, William D., Loy's Shop, N. C. Riding-plow	517,923	Apr. 10	830	208	67	174
Hottes, John H., St. Louis, Mo. Sash-fastener	524,146	Aug. 7	308	73	68	718
Hotz, Christoph, Chicago, Ill. End-gate for wagons	514,076	Feb. 6	158	37	66	884
Hotz, Eugen, Muhlhausen, Germany. Cigar	515,774	Mar. 6	80	19	66	1468
Honck, Thomas J., assignor of one-half to J. F. Morrison, Baltimore, Md. Bushing for electric-arc lamps	523,893	July 31	2996	746	68	621
Honck, Thomas J., and H. M. Browning, assignors of one-half to J. F. Morrison, Baltimore, Md. Telegraphic instructor	515,709	Feb. 27	2853	710	66	1436
Hough, Arthur, San Francisco, Cal. Secondary battery	512,823	Jan. 16	1848	437	66	377
Hough, Azel C., South Butler, N. Y. Manual sales-recorder	530,993	Dec. 18	1594	378	69	1535
Hough, Johnston T., Ruedi, Colo. Hay rake and shocker	524,439	Aug. 14	827	202	68	830
Hough, Walter D., and E. Z. Burns, Niagara Falls, N. Y. Electric radiator	513,109	Jan. 23	2297	555	66	530
Houghtaling, William, assignor to Ashcroft Manufacturing Company, Bridgeport, Conn. Attachment for steam-engine indicators	517,006	Mar. 20	2109	499	66	1878
Houghton, Alfred, assignor of one-half to J. De Witt, Seville, Ohio. Fruit-gatherer	526,574	Sept. 25	2177	520	68	1569
Houghton, Charles L., Northampton, assignor of one-half to J. L. Woodruff, Westfield, Mass. Pocket package of toilet-paper	520,055	May 22	1948	477	67	943
Houghton, Cyrus A. (See Moore, William J., assignor.)						
Houghton, Henry S., Northbridge, Mass. Grid for cotton-openers	530,271	Dec. 4	343	84	69	1278
Houghton, Thomas J., Lancaster, Pa. Harness-saddle	513,396	Jan. 23	2762	673	66	621
Houghton, William, Paris, Canada. Wrench	514,893	Feb. 20	1674	420	66	1202
Houldsworth, Henry, Jr., Keighley, England. Wheelbarrow	529,912	Nov. 27	2454	591	69	1143
Houle, Frank, Chicago, Ill. Try-square	530,894	Dec. 11	1421	337	69	1489
Housatonic Manufacturing Company. (See Crandall and Russell, assignors.)						
Housatonic Manufacturing Company. (See Russell and Crandall, assignors.)						
House, George, Sr., Rochester, N. Y. Sirup-cup for bottlers	529,735	Nov. 27	2158	515	69	1087
House, Henry A., and Henry A., Jr., Bridgeport, Conn., assignors of one-half to R. R. Symon, London, England. Tubulous steam-boiler	521,164	June 12	731	173	67	1343
House, Henry A., and Henry A., Jr., Bridgeport, Conn., assignors of one-half to R. R. Symon, London, England. Burner for the combustion of gas or vapor for heating purposes	521,165	June 12	732	173	67	1343
House, Henry A., and Henry A., Jr., Bridgeport, Conn., assignors of one-half to R. R. Symon, London, England. Feed-water and gas supply regulator	521,166	June 12	734	174	67	1343
House, Henry A., and Henry A., Jr., Bridgeport, Conn., assignors of one-half to R. R. Symon, London, England. Lubricating device	521,958	June 26	2160	518	67	1641
House, Henry A., and Henry A., Jr., Bridgeport, Conn., assignors of one-half to R. R. Symon, London, England. Means for raising anchors	527,060	Oct. 9	635	154	69	134
House, Henry A., and Henry A., Jr., East Cowes, assignors of one-half to R. R. Symon, London, England. Anchor	527,061	Oct. 9	636	154	69	134
House, James A., Bridgeport, Conn., assignor to Lintner & Spornborg, Gloveraville, N. Y. Combined belt-nunch, belt-cutter, and pliers	525,460	Sept. 4	242	59	68	1195
House, William D., et al. (See Warner, Daniel, assignor.)						
Household Boot and Shoe Stretcher Company. (See Howard, Edward J., assignor.)						
Houseman, Harry A., Philadelphia, Pa. Stopping mechanism for circular-knitting machines	517,045	Mar. 27	2194	{ 519 520 }	66	1910
Houseman, Harry A., Philadelphia, Pa. Needle-actuating cam for knitting-machines	521,860	June 26	1960	473	67	1604
Houseman, Harry A., Philadelphia, Pa. Circular-knitting machine	522,210	July 3	67	14	68	14
Houseman, James D., Jr. (See Myhre, Chris, assignor.)						
Houseman, James D., Jr., St. Louis, Mo. Garbage-receptacle	522,525	July 3	594	152	68	117
Houser, Charles E., et al. (See Nesbit, Joseph B., assignor.)						
Houser, Edgar W., and C. C. Decker, Syracuse, N. Y. Elevator	515,225	Feb. 20	2051	511	66	1269
Houser, Edgar W., and C. C. Decker, Syracuse, N. Y. Elevator	530,776	Dec. 11	1240	300	69	1456

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Houston, Adelbert D., Brooklyn, N. Y. Folding metal bed	518,996	May 1	96	23	67	553
Houston, Adelbert D., Brooklyn, N. Y. Folding metal bed	518,997	May 1	97	23	67	554
Houston, Alexander M., Brooklyn, N. Y. Iron-frame for fireproof partitions	525,903	Sept. 11	1024	231	68	1350
Houston, C. P., <i>et al.</i> (See Crouch, Frank J., assignor.)						
Houston, David H., Hunter, N. D. Folding roll-holding camera	526,445	Sept. 25	1985	473	68	1554
Houston, David H., Hunter, N. D. Roll-holding photographic camera	526,446	Sept. 25	1987	473 474	68	1554
Houston, Edwin J., Philadelphia, Pa. System of electric distribution and generation	522,986	July 17	1397	349	68	296
Houston, Edwin J., Philadelphia, Pa. Weather-protecting covering for electrical conductors	527,556	Oct. 16	1446	352	69	297
Houston, Frederick F., Chicago, Ill. Cabinet-maker's clamp	511,844	Jan. 2	152	38, 39	66	32
Houston, Frederick F., Chicago, Ill. Cabinet-maker's clamp	511,845	Jan. 2	154	33, 40	66	32
Houston, W. L., <i>et al.</i> (See Crouch, Frank J., assignor.)						
Houze, Luke, Montpelier, Ind. Roasting and calcining kiln	519,063	May 1	210	49	67	576
Hover, Catharine C., Catskill, N. Y. Frying-pan-handle rest	528,100	Oct. 23	2403	580	69	488
Hover, Elizabeth. (See Hover, William, assignor.)						
Hover, William, assignor to E. Hover, Freeport, Ill. Carpet-stretcher	590,736	May 29	3120	755	67	1175
Hovey, Henry J., Oak Park, Ill. Circuit-closer	528,672	Nov. 6	270	66	69	694
Hovey, Joseph, Florida, Ohio. Band-cutter and feeder for thrashing-machines	524,484	Aug. 14	896	221	68	842
How, Woodbury S., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental forceps	513,015	Jan. 16	2172	517	66	436
How, Woodbury S., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Teeth-separator	513,016	Jan. 16	2172	517	66	436
How, Woodbury S., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental abrading or cutting tool	522,211	July 3	68	14	68	14
How, Woodbury S., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Dental bite-plate	522,212	July 3	68	14	68	14
Howard, Anson M., New Haven, Conn., assignor to Rhoads Sash Balance Company, San Francisco, Cal. Adjustable shaft	514,004	Feb. 6	46	11	66	863
Howard, Anson M., New Haven, Conn., assignor to Rhoads Sash Balance Company, San Francisco, Cal. Sash-balance	514,005	Feb. 6	48	12	66	863
Howard, Charles, New York, N. Y. Vulcanizing and drying wood	520,565	May 29	2829	683	67	1122
Howard, Charles, New York, N. Y. Vulcanizing wood	520,597	May 29	2881	697	67	1132
Howard, Charles D., assignor to Howard Furnace Company, Syracuse, N. Y. Heating-furnace	528,479	Oct. 30	3062	742	69	622
Howard, Charles W., North Hector, N. Y. Extension-ladder	531,534	Dec. 25	2570	615	69	1732
Howard, Daisy D., Jacksonville, Fla. Letter-drier	517,803	Apr. 3	645	162	67	125
Howard, David R., Baltimore, Md. Wheel-guard for cars	515,289	Feb. 20	2166	538	66	1293
Howard, Edward J., Boston, Mass., assignor, by mesne assignments, to Household Boot and Shoe Stretcher Company, Portland, Me. Last	528,296	Oct. 30	2743	663	69	565
Howard, Emmons, Westfield, Mass. Pipe-organ	515,957	Mar. 6	350	83	66	1518
Howard, Frank B., Montreal, Canada. Machine for compressing pulp	513,017	Jan. 16	2174	518	66	436
Howard Furnace Company. (See Howard, Charles D., assignor.)						
Howard, George C., Philadelphia, Pa. Safety device for elevators	519,844	May 15	1596	390	67	864
Howard, Henry H. (See Gutterson, Frank E., assignor.)						
Howard, Henry H., <i>et al.</i> (See Fenerbacher, Frank P., assignor.)						
Howard, Henry J., Paris, Ill. Sleigh-runner attachment	521,794	June 26	1858	444	67	1584
Howard, James, New York, N. Y. Car-brake adjuster	515,079	Feb. 20	1809	456 457	66	1225
Howard, James H. and W. S., Smithborough, Ga. Plow-clevis	512,964	Jan. 16	2096	497	66	422
Howard, James W., Denver, Colo. Ball-bearing	526,013	Sept. 11	1199	275	68	1382
Howard, Jasper N., Wichita, Kans. Type-writing machine	513,110	Jan. 23	2399	556	66	530
Howard, Jasper N., Wichita, Kans. Saw-filing machine	527,332	Oct. 9	1074	259	69	213
Howard, John, Denver, Colo. Last	525,323	Aug. 28	2337	565	68	1133
Howard, John E., assignor to Cork Company, Limited, London, England. Machinery for finishing, polishing, or surfacing corks	530,845	Dec. 11	1339	321	69	1474
Howard, Joseph A., Aberdeen, Ohio. Churn	525,214	Aug. 28	2160	527	68	1099
Howard, Leonard D., St. Johnsbury, Vt. Power-hammer	513,328	Jan. 23	2649	642	66	600
Howard, Leslie E., Watertown, N. Y. Engineer's brake-valve	523,937	July 31	3085	768	68	638
Howard, Louis E., Plainfield, N. J. Electric arc lamp	520,991	June 5	430	103	67	1275
Howard, Octave P., Rockland, Me. Stone-dressing tool	513,509	Jan. 30	2964	729	66	694
Howard, Stephen C. (See Fulford, George A., assignor.)						
Howard, Thomas J. W., Broad View, Tenn. Car-coupling	516,159	Mar. 6	684	161	66	1581
Howard, William H., Pueblo, Colo. Stirring-in or mixing device	529,617	Nov. 20	1964	467	69	1044
Howard, William S. (See Howard, James H. and W. S.)						
Howarth, William E. (See Keils, John, assignor.)						
Howden, James, Glasgow, Scotland. Apparatus for heating air	518,455	Apr. 17	1776	441	67	357
Howe, Charles C., Westerly, assignor to Shannock Mica Company, Shannock, R. I. Grinding-mill	527,926	Oct. 23	2206	531	69	452
Howe, Elmer P. (See Jacobson, John, assignor.)						
Howe, Frank F., Marietta, Ohio. Telegraphic transmitter	524,635	Aug. 14	1147	281 282	68	389
Howe, Frank F., Marietta, Ohio. Sounder	531,188	Dec. 18	1950	463	69	1600
Howe, Frank H., Port Townsend, Wash. Machine for forming wires from metal disks or plates	526,230	Sept. 18	1579	371	68	1463
Howe, Henry A., Albion, assignor to himself, and J. Norwood, Brooklyn, N. Y. Safety attachment for street-cars	515,588	Feb. 27	2658	659	66	1398
Howe, Henry A., Albion, assignor to himself and J. Norwood, Brooklyn, N. Y. Safety attachment for street-cars	520,233	May 22	2274	553 554	67	1002
Howe, Henry A., assignor to himself, J. Livingston, and A. H. Gross, New York, N. Y. Spring-buffer for street-cars	527,203	Oct. 9	853	208	69	174
Howe, John K., and J. Clark, Albany, N. Y. Engine for operating clutches or other devices	530,994	Dec. 18	1565	379	69	1535
Howe, Patrick, assignor of five-sixths to I. Fenno, R. D. Goodwin, and C. M. Blake, Boston, and M. A. Tolman, administratrix, Newton and H. G. Hartshorne, Wakefield, Mass. Cloth-cutting machine	520,598	May 29	2883	697	67	1133
Howe, Rena M., assignor to T. B. Howe, Scranton, Pa. Closure for bottles or jars	518,953	May 1	26	7	67	541
Howe, S. H. (See Rogers, Homer, assignor.)						
Howe, Thomas B. (See Howe, Rena M., assignor.)						
Howe, Thomas J. (See Hartwell and Howe.)						
Howe, Warren B., Chicago, Ill. Water or grease proof material	524,024	Aug. 7	92	.....	68	679
Howe, Warren B., and F. B. Davidson, Chicago, Ill. Paper box	526,782	Oct. 2	189	45	69	36
Howe, William H., Watertown, Mass. Rod for violoncellos	515,831	Mar. 6	161	39	66	1483
Howe, William M., Austin, Minn. Cuff-holder	527,062	Oct. 9	637	154	69	134
Howe, William R., Dayton, Ohio. Elastic-tread horseshoe	530,528	Dec. 11	812	202	69	1380

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Howell, David, Yonkers, N. Y. Hat.....	528,777	Nov. 6	452	111	69	728
Howell, Edwin C., Boston, Mass. Game apparatus.....	529,913	Nov. 27	2455	{ 591 592	{ 69	1143
Howell, Elizabeth E., Maryville, Mo. Garment-stay.....	528,942	Nov. 13	786	184	69	810
Howell, Felix T., assignor to J. C. Williams and W. J. Vann, Birmingham, Ala. Shipping-crate.....	515,226	Feb. 20	2054	511	66	1270
Howell, George B., assignor to McCambridge & Company, Limited, Philadelphia, Pa. Water-closet reservoir.....	520,358	May 22	2485	602	67	1042
Howell, John L., Allegheny, Pa., assignor of two-thirds to A. Saylor and J. Kemmer. Apparatus for generating and distributing heat.....	513,508	Jan. 30	2964	729	66	694
Howell, William E., Los Angeles, and W. H. Gilbert, San Francisco; said Howell assignor of part to C. L. Archer, North San Juan, Cal. Fruit-carrier.....	516,437	Mar. 13	1154	{ 276 277	{ 66	1684
Howells, David, <i>et al.</i> (See Hall, Charles W., assignor.)						
Howells, Thomas G., Warren, Ohio. Lubricator.....	531,590	Dec. 25	2665	640	69	1752
Howes, Alfred, Troy, N. Y. Awning-blind hinge.....	522,295	July 3	211	57	68	42
Howes, Stephen, Jackson, Tenn. Bottle.....	527,494	Oct. 16	1343	327	69	280
Howland, Abiel G., Christchurch, New Zealand. Two-wheeled vehicle.....	512,824	Jan. 16	1849	438	66	377
Howland, William H., Chicago, Ill. Crushing and grinding machine.....	523,938	July 31	3088	{ 768 739	{ 68	638
Howlett, Henry J., trustee. (See Turck, Frederick M., assignor.)						
Howlett, Joseph W., Milton, Pa. Comb.....	523,665	July 31	2593	646	68	547
Howson, James M. (See Smith and Howson.)						
Hox, Albert, Crefeld, Germany. Means for preventing creasing of folded plush or other fabrics.....	523,528	July 24	2359	592	68	487
Hoxsie, Charles A., Richmond, R. I. Artificial fish-pond.....	518,318	Apr. 17	1517	380	67	310
Hoxsie, Charles A., Richmond, R. I. Nursery-pond for fish culture.....	518,319	Apr. 17	1520	380	67	310
Hoy, Harman. (See Hoy, Louis E. and H.)						
Hoy, Louis E. and H., Silver Creek, Nebr. Car elevator and dumper.....	529,618	Nov. 20	1965	468	69	1044
Hoyez, Irene, Stephen, Minn. Band-cutter.....	512,965	Jan. 16	2096	467	66	422
Hoyle, Ella L. D., New Orleans, La. Batter-dropper.....	518,035	Apr. 10	1028	260	67	206
Hoyle, Mary E., Chicago, Ill. Lady's hand-bag.....	518,034	Apr. 10	1027	259	67	206
Hoyt, Adrian H., Manchester, N. H., assignor to Whitney Electrical Instrument Company, Saco, Me. Electric indicator.....	512,250	Jan. 2	858	207	66	162
Hoyt, Adrian H., Penacook, N. H., assignor to Whitney Electrical Instrument Company, Saco, Me. Magnet.....	528,635	Nov. 6	211	51	69	684
Hoyt, Andrew J., Philadelphia, Pa. Pedal for crank-powers.....	518,757	Apr. 24	2297	570	67	463
Hoyt, Avery E., assignor to Gates Iron Works, Chicago, Ill. Frame and hopper for gyratory stone-crushers.....	525,419	Sept. 4	174	44, 45	68	1183
Hoyt, Buckingham S., New York, N. Y. Fastening device.....	519,504	May 6	1010	247	67	745
Hoyt, Charles N., Brooklyn, N. Y. Paper doll.....	526,901	Oct. 2	369	97	69	73
Hoyt, Enoch R., Brooklyn, N. Y. Steam-boiler furnace.....	528,229	Oct. 30	2028	634	69	544
Hoyt, George E., San Francisco, Cal. Carbureting apparatus for gas or vapor engines.....	515,050	Feb. 20	1770	446	66	1217
Hoyt, George E., San Francisco, Cal. Reversing and controlling gearing.....	520,313	May 22	2404	{ 584 585	{ 67	1027
Hoyt, Irwin B., <i>et al.</i> (See Scott, Dennis M., assignor.)						
Hoyt, Upham A., Belfast, Me. Sash-fastener.....	526,863	Oct. 2	325	80	69	62
Hoyt, William C., Hopkinton, assignor of one-half to F. A. Piper, Concord, N. H. Garment-supporter.....	517,278	Mar. 27	2587	606	66	1987
Hubash, Joseph, San Francisco, Cal. Combined ear piercer and ring.....	511,952	Jan. 2	362	89	66	72
Hubbard, Albert O., <i>et al.</i> (See Schairer, John J., assignor.)						
Hubbard, Arthur E., <i>et al.</i> (See Blue, Charles E., assignor.)						
Hubbard, Eber, Chicago, Ill. Paper-pail-making machine.....	515,958	Mar. 6	353	83, 84	66	1519
Hubbard, Eber, Chicago, Ill., assignor to Willimantic Linen Company, Hartford, Conn. Machine for molding spools or similar forms from pulp.....	517,924	Apr. 10	832	209	67	174
Hubbard, Eber, Chicago, Ill., assignor to Willimantic Linen Company, Hartford, Conn. Machine for dressing half-spools.....	518,954	May 1	27	7, 8	67	541
Hubbard, Eber, Chicago, Ill., assignor to Willimantic Linen Company, Hartford, Conn. Machine for turning spools.....	521,468	June 19	1288	{ 300 301	{ 67	1463
Hubbard, Eber, Chicago, Ill., assignor to Willimantic Linen Company, Hartford, Conn. Press for making spools from fibrous pulp.....	524,680	Aug. 14	1216	297	68	901
Hubbard, Joseph A., <i>et al.</i> , executors. (See Babcock, George H.)						
Hubbard, Moses G., Jr. (See McGuire and Hubbard.)						
Hubbard, Moses G., Chicago, Ill. Railway-track.....	515,431	Feb. 27	2418	599	66	1351
Hubbard, Walter, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Inkstand.....	518,036	Apr. 10	1029	260	67	206
Hubbard, William. (See Wheat, Augustus C., assignor.)						
Hubbell, Charles J., Boston, Mass. Primary battery.....	515,432	Feb. 27	2419	599	66	1351
Hubbell, Charles J., New York, N. Y., assignor to J. J. Darlington, trustee, Washington, D. C. Primary battery.....	530,485	Dec. 4	725	178	69	1347
Hubbell, Mark S., and T. H. Gilbert, Buffalo, N. Y. Garbage-wagon.....	515,911	Mar. 6	279	66	66	1505
Hubbell, Myron R., Wolcott, Vt. Gravity door-closer.....	527,495	Oct. 16	1343	327	69	280
Hubbell, Myron R., and W. W. Cate, Wolcott, Vt. Rotary cylinder planer.....	512,583	Jan. 9	1414	341	66	279
Hubbell, Thomas J., Santa Cruz, Cal. Combined sulky harrow and cultivator.....	512,110	Jan. 2	638	153	66	122
Hubbell, Thomas J., Santa Cruz, Cal. Combined sulky harrow and cultivator.....	527,174	Oct. 9	809	197	69	165
Hubbell, Vincent B., New York, N. Y. Constructing pool-balls.....	522,791	July 10	1075	266	68	219
Hubbell, Vincent B., New York, N. Y. Manufacturing pool-balls.....	522,792	July 10	1076	266	68	219
Hübeler, Charles. (See Schuppel and Hübeler.)						
Huben, Gustavus A., Springfield, Ohio. Trolley-wire switch-plate.....	528,101	Oct. 23	2403	581	69	488
Huber, Ernest. (See Sachs and Huber.)						
Huber, Ernest, and J. Sachs, New York, N. Y. Metallic powders.....	522,415	July 3	415	106	68	82
Huber, Sigmund V., Pittsburg, Pa. Feed mechanism for rolling-mills.....	526,447	Sept. 25	1992	{ 474 475	{ 68	1553
Huber, Sigmund V., Pittsburg, Pa. Rolling-mill.....	529,124	Nov. 13	1075	{ 259 260	{ 69	862
Hubinger Carroll Cash Register Company. (See Carroll, Thomas, assignor.)						
Huch, Charles, Hoboken, N. J. Bottle-stopper.....	512,652	Jan. 9	1534	368	66	302
Huch, Charles, Hoboken, N. J. Bottle-stopper.....	516,488	Mar. 13	1243	298	66	1700
Hucks, William, Jr., London, England. Apparatus for molding pats or blocks of butter or other like plastic material.....	526,902	Oct. 2	390	97, 98	69	73
Hudders, Thomas J., St. Paul, Minn. Piston-rod packing.....	515,227	Feb. 20	2055	512	66	1270
Huddleston, Albert F. (See Green, Casper T., assignor.)						
Hudgens, C. Dana, Kenton, Ohio. Jail-door bolt.....	511,776	Jan. 2	53	13	66	13
Hudgin, Emily M., Cincinnati, Ohio. Folding basket.....	518,783	Apr. 24	2337	580	67	471
Hudnall, William, and L. D. Beary, Helena, Mont. Roller grinding-mill.....	518,955	May 1	30	8	67	542

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Hudson, Edmund, Washington, D. C. Stereopticon	518,104	Apr. 10	1145	288	67	225
Hudson, Frank W. (See Murphy, John Z., assignor.)						
Hudson, George E., and G. Sanderson, Scarborough, England. Apparatus for supplying feed-water to boilers	514,468	Feb. 13	825	209	66	1026
Hudson, Gilbert L., Romeo, Mich. Hand corn-planter	516,537	Mar. 13	1331	317	66	1716
Hudson, James A., Buena Vista, Colo. Order-case for telegraph-operators	523,312	July 17	1971	496	68	401
Hudson, John H., Marshall, Tex. Type-writing machine	521,616	June 19	1546	362	67	1508
Hueffner, Henry A., and L. Lash, Virginia, Ill. Dust-arrester	519,958	May 15	1777	435	67	898
Huether, Conrad, and J. E. Gross, South Bethlehem, Pa. Bottle-washer	513,640	Jan. 30	3195	783	66	736
Huettig, Hugo. (See Worden and Huettig.)						
Huff, Waller P. (See Jones and Wetmore, assignors.)						
Hugershoff, Franz, Leipsic, Germany. Centrifugal testing-machine	523,351	July 24	2040	512	68	430
Hugershoff, William, New York, N. Y. Atomizer	514,190	Feb. 6	359	86	66	921
Hughes, Edward. (See Senior, Wood, Hughes, and Hemingway.)						
Hughes, George. (See Ladd, Story B., assignor.)						
Hughes, Harry, Alliance, Nebr. Level	523,894	July 31	2997	746	68	621
Hughes, Henry B., Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Portable planer	516,815	Mar. 20	1792	424	66	1817
Hughes, Henry C., London, England. Manufacture of stained-glass panels	519,186	May 1	444	109	67	623
Hughes, James R., London, England. Support for lights	522,116	June 26	2425	582	67	1690
Hughes, John M., Knoxville, Tenn. Churn attachment	520,566	May 29	2831	683	67	1122
Hughes, Louisa G., Cleveland, Ohio. Jelly-cooker	522,731	July 10	966	241	68	199
Hughes, Samuel, Charleston, S. C. Apparatus for treating phosphate rock	514,006	Feb. 6	49	12	66	862
Hughes, Samuel, Lindsay, Canada. Ventilating railway-carriages	521,316	June 12	1001	236	67	1392
Hughes, Samuel, Lindsay, Canada. Ventilating railway-carriages	521,795	June 26	1859	445	67	1585
Hughes, William B., Philadelphia, Pa. Preparing charges for and charging metallurgical furnaces	524,551	Aug. 14	1013	250	68	863
Hughes, George W., Fort Worth, Tex. Wire-stretcher	518,406	Apr. 17	1685	417	67	341
Hughson, Benjamin F., Cold Spring, N. Y. Car-ventilator	527,987	Oct. 23	2207	532	69	432
Huizer, Samuel L., The Hague, Netherlands. Adding-machine	515,228	Feb. 20	2056	512	66	1271
Hulbert, Alfred, Clear Lake, Iowa. Show-case	526,625	Sept. 25	2259	540	68	1605
Hulbert, Milan H., New York, N. Y. Tool for making curves or other forms in Venetian iron	518,816	Apr. 24	2396	592	67	481
Hulbert, Orrin L. (See Stoker, George W., assignor.)						
Hulett, Elvira, Pawlet, Vt., assignor of one-half to J. W. Carver, Granville, N. Y. Egg-tester	516,630	Mar. 13	1489	353	66	1746
Hulett, George H., Cleveland, Ohio. Drop-bottom-bucket mechanism	513,327	Jan. 23	2650	642	66	600
Hulett, George H., Cleveland, Ohio. Conveyor-carriage	516,864	Mar. 20	1875	443	66	1835
Hulett, George H., assignor to McMyler Manufacturing Company, Cleveland, Ohio. Device for unloading cars	516,053	Mar. 6	520	121	66	1549
Hulett, John E., et al. (See Sparham, Terence, assignor.)						
Hull, Charles M. (See Hull, George M., assignor.)						
Hull, Charles S., et al. (See Julian, Gideon, assignor.)						
Hull, George M., assignor of one-half to C. M. Hull, Kearney, Nebr. Cut-off governor	512,111	Jan. 2	641	153	66	123
Hull, George M., assignor of one-half to C. M. Hull, Kearney, Nebr. Rotary engine	516,538	Mar. 13	1332	317	66	1716
Hull, Hubert H. (See Powers, Daniel E., assignor.)						
Hull, John H. (See Rich and Hull.)						
Hull, Richard B., Milton Junction, Wis. Composition for exterminating Canada thistles	517,861	Apr. 10	729		67	155
Hull, William, Souris, Canada. Combined drag-bar cultivator and drill	517,925	Apr. 10	835	210	67	175
Hull, Wilmot B., Wellington, Kans. Clevis	520,110	May 22	2045	500	67	962
Hull, Wolcott A. (See Rockwell and Hull.)						
Hullhorst, William G., assignor to Ransom & Randolph Company, Toledo, Ohio. Barber's chair	524,853	Aug. 21	1518	371	68	968
Hult, Carl A. and O. W., Stockholm, Sweden. Can-opener	522,213	July 3	69	15	68	14
Hult, Oscar W. (See Hult, Carl A. and O. W.)						
Hultgren, Hemming L., Chicago, Ill. Photographic vignetter	515,060	Feb. 20	1812	457	66	1226
Humann, Anna. (See Rank, Erdmann, assignor.)						
Humbarger, Lauren, near Columbia City, Ind. Apparatus for transplanting plants	525,344	Sept. 4	31	7	68	1157
Humberstone, Walter, London, England. Frozen-water alarm	525,548	Sept. 4	389	94, 95	68	1223
Humbert, George E., Brooklyn, N. Y. Guard for slides of repeating-watches	523,207	July 17	1792	450	68	368
Humbert, James H., assignor of two-thirds to I. N. Funkhouser and J. H. Wine, Waynesborough, Va. Coal-hod	527,333	Oct. 9	1075	260	69	214
Hume, Robert D. (See Gray and Murch, assignors.)						
Hume, Robert D., Gold Beach, Oreg. Can-making machine	522,673	Nov. 6	274	67	69	695
Hume, Robert D., Gold Beach, Oreg. Carrier for can-making machines	529,269	Nov. 13	1340	321	69	909
Humphrey, Alfred H., F. J., and H. S., Kalamazoo, Mich. Water-heater	523,071	July 17	1533	384	68	321
Humphrey, Edgar A., Columbus, Pa. Wrench	514,752	Feb. 13	1302	324	66	1116
Humphrey, Edgar A., Columbus, Pa. Wick-adjuster for lamp-burners	527,692	Oct. 16	1673	403	69	338
Humphrey, Frederick J. (See Humphrey, Alfred H., F. J., and H. S.)						
Humphrey, George C. (See Forrester, William H., assignor.)						
Humphrey, Harry I., Birmingham, England. Child's carriage	522,117	June 26	2426	582	67	1690
Humphrey, Henry P., assignor to Lowell Oiler Company, Nashua, N. H. Lubricating device	517,748	Apr. 3	561	137	67	109
Humphrey, Herbert S. (See Humphrey, Alfred H., F. J., and H. S.)						
Humphrey, John B., et al. (See Scales, William S., assignor.)						
Humphrey, Seth K., Omaha, Nebr. Windmill	531,038	Dec. 18	1672	397	69	1550
Humphrey, Walter B., assignor of three-tenths to J. Bevan, Windsor, Conn. Combination-lock	526,709	Oct. 2	65	17	69	15
Humphrey, William F., and S. V. Hoffman, Boston, Mass. Tension device for towing-cables	530,995	Dec. 18	1599	379	69	1536
Humphreys, Alfred N., Irwin, Pa. Cable-grip	512,112	Jan. 2	643	154	66	123
Humphreys, George E. (See Fay and Humphreys.)						
Humphreys, James W., Iroquois, Ill. Ditching-machine	516,682	Mar. 20	1581	377	66	1720
Humphreys, William J., Crozet, Va. Construction of legged articles	520,432	May 29	2605	630	67	1021
Huny, Paul R. D. d', Chicago, Ill. Apparatus for electrolytically treating raw hides	512,706	Jan. 16	1619	389	66	333
Hünefeld, Julius F. von, Dresden, Germany. Key attachment for locks	519,605	May 8	1205	291	67	778
Hungerford, Henry, West Haven, Conn. Ply-extermiator	514,227	Feb. 6	433	105	66	933
Hunking, Charles D., New York, N. Y. Push-button	511,953	Jan. 2	383	89	66	72
Hunleth, Frank J., et al. (See Glessler, William J., assignor.)						
Hunsicker, William H. (See Wanamaker, Charles B., assignor.)						
Hunsstock, Robert H., Hannibal, Mo. Apparatus for making sirups	523,529	July 24	2360	592	68	487

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Hunt, Alexander E. (See Fenwick, Robert W., assignor.)						
Hunt, Charles R. (See Holroyd, Hunt, and Johns.)						
Hunt, Charles F., <i>et al.</i> (See Walker, William E., assignor.)						
Hunt, Charles W., West New Brighton, N. Y. Dredging or excavating apparatus	512,825	Jan. 16	1850	438	66	377
Hunt, Charles W., West New Brighton, N. Y. Means for setting up journal-boxes	512,826	Jan. 16	1852	438	66	377
Hunt, Charles W., West New Brighton, N. Y. Excavating or dredging bucket	512,827	Jan. 16	1852	439	66	377
Hunt, Charles W., West New Brighton, N. Y. Excavating bucket	512,828	Jan. 16	1854	439	66	378
Hunt, Charles W., West New Brighton, N. Y. Cable railway	520,644	May 29	2952	714	67	1145
Hunt, Charles W., West New Brighton, N. Y. Cable railway	522,713	July 10	918	228	68	192
Hunt, Charles W., West New Brighton, N. Y. Elevating apparatus	527,496	Oct. 16	1345	323	69	280
Hunt, Charles W., West New Brighton, N. Y. Lubricator	529,125	Nov. 13	1079	260	69	863
Hunt, Daniel, Round Grove, Mo. Car-coupling	512,194	Jan. 2	773	188	66	147
Hunt, Edward P., assignor of one-half to J. Bloeser, Buffalo, N. Y. Flue-brush handle	521,097	Dec. 18	1676	397	69	1550
Hunt, George G., Bristol, Ill. Grain-binder	537,439	Oct. 16	1347	{ 328 329 }	{ 60 60 }	280
Hunt, George G., Bristol, assignor of one-half to Plano Manufacturing Company, Plano, Ill. Harvester	526,352	Sept. 18	1787	424	68	1505
Hunt, Herbert E., Pittsburg, Pa. Air-brake-regulating apparatus	529,270	Nov. 13	1341	321	69	909
Hunt, James, assignor to Universal Food and Liquid Improving Company, Philadelphia, Pa. Method of and apparatus for extracting air from beer	517,161	Mar. 27	2398	565	66	1950
Hunt, John, Carlton, Victoria. Protector for shafting	516,429	Mar. 13	1213	298	66	1700
Hunt, John A., Binghamton, N. Y. Disk-operated game-machine	517,046	Mar. 27	2199	{ 520 521 }	{ 66 66 }	1911
Hunt, Jonathan A., assignor to Hunt Manufacturing Company, Westborough, Mass. Bicycle tool-bag	516,724	Mar. 20	1659	393	66	1793
Hunt Manufacturing Company. (See Hunt, Jonathan A., assignor.)						
Hunt, Nathaniel F. T., Braintree, Mass. Valve-stopper for bottles	515,879	Mar. 6	229	54	66	1496
Hunt, Russell E., Boston, Mass. Making bags	515,121	Feb. 20	1876	471	66	1237
Hunt, William E., Detroit, Mich. Head-rest	522,563	July 3	659	168	68	129
Hunter, David E., Cambridge, assignor of one-half to J. W. Clark, Boston, Mass. Drawer-case	526,014	Sept. 11	1200	275	68	1382
Hunter, Frank E., <i>et al.</i> (See Schairer, John J., assignor.)						
Hunter, George B., Newcastle-on-Tyne, England. Apparatus for feeding plates or bars to punching-machines, &c.	512,829	Jan. 16	1855	{ 439 440 }	{ 66 66 }	378
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Mechanism for loading watch-jewels	520,681	May 29	3030	{ 733 734 }	{ 67 67 }	1159
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Fastening for watch-dials	523,913	July 31	3031	753	68	626
Hunter, George E., Elgin, assignor to Elgin National Watch Company, Chicago, Ill. Dial-sinking machine	527,988	Oct. 23	2208	{ 532 533 }	{ 69 69 }	452
Hunter, Harry C., <i>et al.</i> (See Cooper, Lonzo J., assignor.)						
Hunter, Hugh. (See Crepar, Thomas M., assignor.)						
Hunter, James B., Cato, N. Y. Fire apparatus	513,265	Jan. 23	2566	619	66	584
Hunter, James B., Cato, N. Y. Hose-reel	521,796	June 26	1890	445	67	1585
Hunter, James B., Cato, N. Y. Hose-reel	528,597	Nov. 6	132	32	69	670
Hunter, James B., Buffalo, N. Y. Fire-extinguishing apparatus	513,266	Jan. 23	2567	620	66	584
Hunter, Jesse R., Griffin, Ga. Seed-planter or fertilizer-distributor	511,890	Jan. 2	280	64, 65	66	55
Hunter, John, and J. Blankley, Philadelphia, Pa. Hame	514,368	Feb. 6	663	168	66	978
Hunter, John F., and S. H. Lough, Seattle, Wash. Circuit-changer for electric signaling systems	528,127	Oct. 23	2450	502	69	496
Hunter, John K., Owensborough, Ky. Snap-slide for sewing-machines	519,260	May 1	576	140	67	649
Hunter, John P., Boise City, assignor of one-half to T. Gracia, Quartzburg, Idaho. Lubricator	526,838	Oct. 2	275	67	69	52
Hunter, Lytle J., <i>et al.</i> (See Cooper, Lonzo J., assignor.)						
Hunter, Robert L., St. Paul, Minn. Electrical annunciator	518,037	Apr. 10	1030	{ 260 261 }	{ 67 67 }	207
Hunter, Rudolph M., Philadelphia, Pa. Photographic-printing frame	518,922	Apr. 24	2565	{ 634 635 }	{ 67 67 }	513
Hunter, Rudolph M., Philadelphia, Pa. Electric-railway turn-table	520,527	May 29	2764	669	67	1109
Hunter, Rudolph M., Philadelphia, Pa. Cash-register	521,931	June 26	2007	504	67	1630
Hunter, Rudolph M., Philadelphia, Pa. Process of and apparatus for the manufacture of iron or steel	528,943	Nov. 13	787	184	69	810
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electrical transmission of power	514,228	Feb. 6	434	105	66	933
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electric-arc lamp	514,229	Feb. 6	437	106	66	934
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Trolley-wire support	514,932	Feb. 20	1585	398	66	1185
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electrical measuring-instrument	517,162	Mar. 27	2401	566	66	1950
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electric locomotive	520,111	May 22	2046	500	67	962
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electrical measuring-instrument	520,361	May 22	2494	603	67	1045
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electric-railway supply-circuit	522,374	July 3	338	87	68	67
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Conduit electric railway	524,025	Aug. 7	93	20	68	679
Hunter, Rudolph M., Philadelphia, Pa., assignor to Thomson-Houston Electric Company, of Connecticut. Electrical transformer	528,778	Nov. 6	453	111	69	729
Hunter, Rudolph M., Philadelphia, Pa., assignor, by mesne assignments, to Thomson-Houston Electric Company, Boston, Mass. Electric-railway system	523,313	July 17	1973	496	68	402
Hunter, Rudolph M., Philadelphia, Pa., assignor to Johnson Company, of Pennsylvania. Apparatus for electric welding	520,359	May 22	2486	603	67	1042
Hunter, Rudolph M., Philadelphia, Pa., assignor to Johnson Company, of Pennsylvania. Apparatus for electric welding	520,360	May 22	2490	603	67	1043
Hunter, Rudolph M., Philadelphia, Pa., assignor to Arlington Manufacturing Company, of New Jersey. Collar or cuff	520,825	June 5	126	27	67	1220
Hunter, Thomas G., Philadelphia, Pa. Removing tin from tin-scrap, &c.	511,846	Jan. 2	157	40	66	33
Hunter, Thomas G., Philadelphia, Pa. Removing and recovering metal coatings from metallic bases	529,862	Nov. 27	2373	568	69	1128
Hunter, Thomas G., Philadelphia, Pa. Removing and recovering metal coatings from metallic bases	529,863	Nov. 27	2375	568	69	1129

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Hunter, Thomas G., Philadelphia, Pa. Removing and recovering metal coatings from metallic bases.....	529,864	Nov. 27	2376	568	69	1129
Hunter, Wallace B., assignor to E. Friedlander, New York, N. Y. Beam-compass.....	517,696	Apr. 3	472	114	67	91
Hunter, Walter J., Scottsdale, Pa. Combined pen rack, stand, and case.....	526,079	Sept. 18	1317	305	68	1416
Hunter, William. (See Day and Hunter.)						
Hunting, Fred S., Fort Wayne, Ind. Transformer.....	514,933	Feb. 20	1587	398	66	1185
Huntington, George, <i>et al.</i> (See Nall, Frederick W., assignor.)						
Huntington, Louis, Tahoe, Cal. Sash-balance.....	523,473	July 24	2261	568	68	468
Hunton, Robert W., assignor to Pettie Machine Works, Newton, Mass. Machine for applying card-clothing to flats of carding-engines.....	520,186	May 22	2197	535	67	988
Huntress, John H., Janesville, Wis. Stovepipe attachment.....	521,959	June 26	2161	519	67	1641
Hunzinger, George, New York, N. Y. Game-table.....	522,014	June 26	2265	543	67	1659
Hupp, Frank S. (See Baldwin, Charles C., assignor.)						
Hurd, Joseph W., Belvidere, Ill. Bread or cake knife.....	527,175	Oct. 9	812	197	69	166
Hurd, Oscar P., Binghamton, N. Y. Boot or shoe.....	528,724	Nov. 6	349	85	69	710
Hurdle, Julian A., Jersey City, N. J. Pessary.....	525,785	Sept. 11	808	184	68	1311
Hurlbut, Horace, Leavenworth, Kans. Oar-propeller for boats.....	518,605	Apr. 24	2020	502	67	415
Hurlburt, Samuel W., Creston, Iowa. Window-screen.....	520,112	May 22	2049	500	67	963
Hurlbut, Duane, Paterson, N. J. Air-ship.....	526,394	Sept. 25	1879	446 447	68	1535
Hurlbut, Fred G., assignor to Weeks & Hurlbut, Fond du Lac, Wis. Bicycle-stand.....	512,548	Jan. 9	1364	330	66	269
Hurlbut, Seth E., Chicago, Ill. Box.....	519,578	May 8	1164	280	67	771
Hurley, Andrew O., Jeannette, Pa. Glass-heating oven.....	526,528	Sept. 25	2108	503 504	68	1576
Hurley, Jere, Ellsworth, Me. Thill-support.....	528,102	Oct. 23	2405	581	69	488
Hurley, John C., Faithaven, Wash. Car-coupling.....	525,549	Sept. 4	391	95	68	1223
Hurley, Joseph M., assignor to W. F. Bryant, Buffalo, N. Y. Mold.....	518,147	Apr. 10	1211	304	67	237
Hurry, Edward H., assignor to Standard Portland Cement Company, New York, N. Y. Roller pulverizing-mill.....	524,089	Aug. 7	203	46	68	698
Hurst, Alexander, and J. I. Boyer, Reading, Pa. Fancet.....	516,438	Mar. 13	1157	277	66	1684
Hurst, Benjamin, and L. Rosenberg, St. Louis, Mo. Collar-button.....	516,683	Mar. 20	1583	377	66	1780
Hurst, Jakob. (See Rosenberg and Hurst.)						
Hurst, James M., Lucetia, Va. Gate.....	527,693	Oct. 16	1674	403	69	339
Hurst, James O. (See Essex, Samuel P., assignor.)						
Hurst, John C. F., Holton, Kans. Vehicle-brake.....	521,588	June 19	1499	351	67	1500
Hurt, Samuel F. (See Cochran, John, Jr., assignor.)						
Hurtubise, Alexandre, Saginaw, Mich. Sleigh-nose.....	514,469	Feb. 13	826	209	66	1026
Husberg, Nils G. K., Stockholm, Sweden. Steam-turbine.....	525,105	Aug. 28	1977	483	68	1066
Huse, Harry P., U. S. Navy. Heating or ventilating device.....	515,685	Feb. 27	2816	702	66	1429
Huser, Thomas. (See Byers, Edward N. and J. J., assignors.)						
Husmann, John. (See Husmann, Tobe and J.)						
Husmann, Tobe and J., Scotch Grove, Iowa. Device for attaching hay-loaders to wagons.....	514,369	Feb. 6	665	168	66	978
Huss, William C., Cincinnati, Ohio, assignor, by mesne assignments, to Brunswick-Balke-Collender Company, of Ohio. Combined arm-rest and guard for counters, bars, &c. (Re-issue).....	11,414	Apr. 17	1981	490	67	393
Hüssener, Albert, Gelsenkirchen, Germany. Apparatus for use in sterilization of materials in bottles, jars, &c.....	529,619	Nov. 20	1967	468 469	69	1044
Hussey, Albertus, Milford, assignor of one-half to O. A. Shepard, Brookline, Mass. Cutting-tool.....	528,725	Nov. 6	351	86	69	710
Hussey, Asabel H. (See Hussey, Nathan W. and A. H.)						
Hussey, Charles A., New York, N. Y. Combined regulating incandescent lamp and socket.....	527,989	Oct. 23	2210	533 534	69	453
Hussey, Curtis G., <i>et al.</i> (See Burton, Charles C., assignor.)						
Hussey, Levi, New York, N. Y., assignor to Mining and Dredging Power Company, of West Virginia. Steam vacuum-dredger.....	523,838	July 31	2902	723 724 725	68	603
Hussey, Levi, New York, N. Y., assignor to Mining and Dredging Power Company, of West Virginia. Steam vacuum-dredger.....	526,529	Sept. 25	2110	504	68	1576
Hussey, Levi, New York, N. Y., assignor to Mining and Dredging Power Company, of West Virginia. Steam vacuum-dredger.....	526,530	Sept. 25	2110	505	68	1577
Hussey, Levi, New York, N. Y., assignor to Mining and Dredging Power Company, of West Virginia. Steam-dredger.....	526,531	Sept. 25	2112	505 506	68	1577
Hussey, Levi, assignor to Mining and Dredging Power Company, New York, N. Y. Steam vacuum-pump.....	526,652	Sept. 25	2307	552	68	1613
Hussey, Levi, and E. McCann, New York, N. Y. Device for removing air from steam-heating systems.....	524,110	Aug. 7	239	55, 56	68	705
Hussey, Nathan W. and A. H., Mount Pleasant, Ohio. Cow-milker.....	514,551	Feb. 13	958	242	66	1051
Hussey, William H. H., <i>et al.</i> (See Horton, Peter D., assignor.)						
Hussey, William P., Chicago, Ill. Map-case.....	523,814	July 31	2855	709	68	594
Husted, Charles L. (See Mersereau, Jacob, assignor.)						
Husted, Singleton, and I. P. Doolittle, Los Angeles, Cal. Wave and current power.....	513,930	Jan. 30	3647	899	66	823
Huston, Arthur L. and W. J., Philadelphia, Pa. Compound for covering belt-pulleys.....	520,992	June 5	432	103	67	1275
Huston, John, <i>et al.</i> (See Miller, John, assignor.)						
Huston, William J. (See Huston, Arthur L. and W. J.)						
Huston, Winfield L. (See Rickabach, William H., assignor.)						
Hutchins, Abner B., assignor to Luther & Lederhes, New York, N. Y. Gas-stove.....	527,858	Oct. 23	1959	471	69	407
Hutchins, Carleton B., Detroit, Mich. Ventilating device for cars.....	521,617	June 19	1548	362	67	1509
Hutchins, Eugene R., assignor to Hutchins Refrigerator Car Company, Chicago, Ill. Ice-tank for refrigerator-cars.....	516,352	Mar. 13	1002	238	66	1656
Hutchins, George F., assignor to Knowles Loom Works, Worcester, Mass. Warp-slackening mechanism for looms.....	523,574	July 24	2422	608	68	499
Hutchins Refrigerator Car Company. (See Hutchins, Eugene R., assignor.)						
Hutchinson, Arthur. (See Gelbaugh, William H., assignor.)						
Hutchinson, Calvin A., assignor of one-half to B. F. Sloan and J. R. Greene, Spencer, Ind. Barrel-truck.....	531,189	Dec. 18	1951	463	69	1601
Hutchinson, Charles G., New York, N. Y. Wire railway.....	515,338	Feb. 27	2259	560	66	1321
Hutchinson, Charles W. (See Lloyd and Hutchinson.)						
Hutchinson, Frederick H., New York, N. Y. Bottle.....	518,606	Apr. 24	2021	502	67	415
Hutchinson, Ira R., Fresno, Cal., assignor of five-eighths to A. L. Stout, Dayton, and W. C. Van Sant, Delaware, Ohio. Wrapping-machine.....	530,529	Dec. 11	813	202 203	69	1380
Hutchinson, John L., La Porte, Indiana. Watch.....	530,530	Dec. 11	817	203	69	1381
Hutchinson, John L., La Porte, Ind., assignor to E. F. Bowman, Lancaster, Pa. Jewel-chuck.....	513,931	Jan. 30	3648	899	66	823
Hutchinson, Joseph, New York, N. Y. Shade-holder.....	522,596	July 10	720	184	68	157

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Hutchinson, Joseph, New York, N. Y. Electric switch	522,597	July 10	721	185	68	157
Hutchinson Manufacturing Company. (See Hutchinson and Tyler, assignors.)						
Hutchinson, Rowland. (See Wilson and Hutchinson.)						
Hutchinson, Samuel P., Philadelphia, Pa., assignor to Hutchinson Steel Company, New York, N. Y. Manufacturing steel castings	520,056	May 22	1948		67	943
Hutchinson, Samuel P., and S. L. Wiegand, Philadelphia, Pa. Gas-producing furnace	514,994	Feb. 20	1675	420	66	1202
Hutchinson Steel Company. (See Hutchinson, Samuel P., assignor.)						
Hutchinson, William F., Passaic, N. J. Kindling-wood	518,247	Apr. 17	1401	351	67	289
Hutchinson, William F., Passaic, N. J. Toothpick-machine	523,575	July 24	2425	609	68	499
Hutchinson, William F., Passaic, N. J. Stripping attachment for veneer-cutting machines	523,576	July 24	2427	609	68	499
Hutchinson, William F., Passaic, N. J. Wood-cutting machine	529,386	Nov. 20	1551	371	69	969
Hutchinson, William F., and A. J. Tyler, Passaic, N. J., assignors to Hutchinson Manufacturing Company, of New Jersey. Bundling-machine	518,248	Apr. 17	1402	353	67	289
Hutchison, Robert, Cowairs, Scotland. Gutta percha or rubber compound	518,817	Apr. 24	2398		67	481
Hute, Frank J. S., Pendlebury, England. Miner's pick	529,271	Nov. 13	1342	321	69	909
Huth, Alfred H., London, England. Type-writing machine	525,345	Sept. 4	33	7, 8, 9, 10, 168, 169	68	1157
Hutin, Maurice, and M. Leblanc, Paris, France. Multiple telephony	522,564	July 3	660		68	129
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Electricité, Paris, France. Transformer system for electric railways	527,857	Oct. 23	1956	470	69	406
Hutin, Maurice, Paris, and M. Leblanc, Le Raincy, assignors to Société Anonyme pour la Transmission de la Force par l'Electricité, Paris, France. Alternating-current electro-dynamic machine	529,272	Nov. 13	1343	322	69	910
Hutin, Maurice, and M. Leblanc, assignors to Société Anonyme pour la Transmission de la Force par l'Electricité, Paris, France. Continuous-current dynamo-electric machine	529,650	Nov. 20	2012	482	69	1052
Hutton, John. (See Strohecker and Hutton.)						
Hutton, William H., <i>et al.</i> (See Horton, Peter D., assignor.)						
Huttonlocher, G. H., <i>et al.</i> (See Stanley, John E., assignor.)						
Huxford, Charles H., Brooklyn, N. Y. Coffee pot and filter	519,020	May 1	132	33	67	561
Huxhold, John C., assignor of one-half to J. H. C. Huxhold, Omaha, Nebr. Combination broom and lantern holder	514,122	Feb. 6	228	53	66	897
Huxhold, John H. C. (See Huxhold, John C., assignor.)						
Hyatt, Frank A., Beaumont, Tex. Dredging apparatus	528,433	Oct. 30	2976	720	69	606
Hyatt, John W., Newark, N. J. Making vegetable-parchment fabrics	511,891	Jan. 2	282	65	66	55
Hyatt, John W., Newark, N. J. Strainer for granular filter-beds	512,298	Jan. 9	941	229	66	190
Hyatt, John W., Newark, N. J. Filter-strainer	512,299	Jan. 9	942	230	66	191
Hyatt, John W., Newark, N. J. Guide for bearings with loose rollers	522,214	July 3	70	15	68	14
Hyatt, John W., Newark, N. J. Hanger for shafting	526,710	Oct. 2	69	17, 18	69	15
Hyde, Charles, Pittsburg, Pa. Boiler	528,103	Oct. 23	2405	581	69	488
Hyde, David B., Springfield, Ohio. Elastic emery-wheel	528,726	Nov. 6	352	86	69	710
Hyde, Robert, Sheffield, England, assignor to W. Hyde, Philadelphia, Pa. Axle-box	520,314	May 22	2406	585	67	1027
Hyde, Theophilus R., Jr. (See Shipley and Hyde.)						
Hyde, Theophilus R., Jr. (See Wolf and Hyde.)						
Hyde, Thomas B., Taylor, Tex. Bicycle	517,697	Apr. 3	473	114	67	91
Hyde, William. (See Hyde, Robert, assignor.)						
Hydorn, Millard L., Kent county, Del. Corn-cutting machine	517,143	Mar. 27	2364	558	66	1944
Hyland, F. B., <i>et al.</i> (See Lilleberg, Charles L., assignor.)						
Hyller, Knud L., Chicago, Ill. Folding bed	515,686	Feb. 27	2818	702	66	1429
Hyller, Knud L., Chicago, Ill. Miter-hox	525,215	Aug. 28	2161	528	68	1099
Hyller, Knud L., Chicago, Ill. Folding bed	530,777	Dec. 11	1243	300	69	1457
Hyman, Albert I. and D., New York, N. Y. Filter	531,190	Dec. 18	1952	463	69	1601
Hyman, Daniel. (See Hyman, Albert I. and D.)						
Hyman, Gustavus. (See Burrows, Joseph H., assignor.)						
Hymans, Ella. (See Laube, Annie T., assignor.)						
Hymans, Joseph. (See Laube, Godfried, assignor.)						
Hyne, George H., Rochester, N. Y. Spinning-top	514,995	Feb. 20	1677	420	66	1202
I. B. Kleinert Rubber Company. (See Kleinert, Isaac B., assignor.)						
I. L. Ellwood Manufacturing Company. (See Swanburn, Sanford, assignor.)						
Ibel, Charles J. (See Muehlfeith and Ibel.)						
Ichthyol Gesellschaft, Cordes, Hermann & Co. (See Helmers, Ludwig O., assignor.)						
Ichthyol Gesellschaft, Cordes, Hermann & Co. (See Schröter, Ernst W. R., assignor.)						
Iddings, J. H. (See Iddings, Samuel P., assignor.)						
Iddings, Samuel P., assignor of one-half to J. H. Iddings, Troy, Ohio. Fence-post	528,674	Nov. 6	280	68	69	606
Ide, Ferdinand F., assignor to F. F. Ide Manufacturing Company, Peoria, Ill. Bicycle-crank	518,456	Apr. 17	1777	442	67	357
Ideal Manufacturing Company. (See Bush, Hiram T., assignor.)						
Ideal Stretcher Company. (See Hathaway, George M., assignor.)						
Idler, Charles A., Atlantic City, N. J. Electric and gravity pleasure-railway	527,990	Oct. 23	2214	534, 535	69	454
Igoe, James J., <i>et al.</i> (See Conekin, Dawson, assignor.)						
Ihlder, John D., Yonkers, N. Y. Magnetizing-coil	516,204	Mar. 13	771	180	66	1613
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Electric motor	514,077	Feb. 6	160	38	66	884
Ihlder, John D., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Electric elevator-motor	514,078	Feb. 6	162	38	66	885
Iles, Malvern W. (See Chanute and Iles.)						
Iles, Malvern W., Denver, Colo. Separating matte from slag	515,081	Feb. 20	1813	457	66	1226
Iles, Malvern W., Denver, Colo. Recovering metal from slag	515,082	Feb. 20	1814	457	66	1226
Iles, Malvern W., Denver, Colo. Forehearth-jacket for blast-furnaces	515,083	Feb. 20	1815	458	66	1236
Iles, Malvern W., Denver, Colo. Apparatus for separating metallic fumes from furnace-gases	515,084	Feb. 20	1817	458	66	1227
Iles, Malvern W., Denver, Colo. Method of and apparatus for cooling furnace-breasts	515,085	Feb. 20	1818	458	66	1227
Iles, Malvern W., Denver, Colo. Steam-separator	522,416	July 3	416	106	68	83
Iles, Malvern W., Denver, Colo. Forehearth for smelting-furnaces	522,417	July 3	417	106, 107	68	83
Iles, Malvern W., Denver, Colo. Carburetor	522,418	July 3	419	107	68	83
Iles, Malvern W., Denver, Colo. Track-crossing	522,419	July 3	421	107	68	84
Ilg, August G. (See Engel, Henry, assignor.)						
Iliowizi, Henry, Philadelphia, Pa. Air moistening and purifying attachment for registers	526,653	Sept. 25	2309	552	68	1613
Iliowizi, Henry, Philadelphia, Pa. Air-moistening attachment for hot-air registers	526,923	Oct. 2	428	106	69	80
Ilingworth, Hartley. (See Fison and Ilingworth.)						
Ilingworth, John, Newark, N. J. Ingot-mold	520,923	June 5	319	77	67	1255

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Illinois Steel Company. (See Laurie, John G., assignor.)						
Isley, William H., Whitman, and J. Cook, North Abington, assignors to W. H. Daniels, Norwell, and D. M. Gurney, Whitman, Mass. Sole-channeling knife	525,216	Aug. 28	2164	528	68	1099
Isley & Co., S. A. (See Macarthy, Henry, assignor.)						
Imband, Paul M. T., Ambarès, France. Bottle-stopper	519,910	May 15	1702	415	67	884
Improved Zigzag Grate Bar Company. (See Boileau, Etienne, assignor.)						
Inch, Philip, Washington, D. C., assignor of eight-fifteenths to B. N. Baker, Baltimore, Md. Composition of metal and making same	529,620	Nov. 20	1968	-----	69	1044
Inch, Philip, Washington, D. C., assignor of eight-fifteenths to B. N. Baker, Baltimore, Md. Sheathing for ships' bottoms	529,651	Nov. 20	2014	482	69	1052
Indiana Lumber and Veneer Company. (See Dickerson, William M., assignor.)						
Indiana Manufacturing Company. (See Nethery, Joseph W., assignor.)						
Indianapolis Basket Company. (See Springer and Eviston, assignors)						
Indianapolis Lath Machine Company. (See Darnell and Koss, assignors.)						
Industrial Chain Company. (See Wagener, Oscar, assignor.)						
Infinity Manufacturing Company. (See Solomon, John L., assignor.)						
Ingalls, Joseph A., assignor of one-half to M. E. Hocker, Evanston, Wyo. Bench-vise	512,472	Jan. 9	1252	302	66	249
Ingalls, Milo H., assignor of three-eighths to J. C. Shannon, North Granville, N. Y. Chimney cowl or ventilator	530,418	Dec. 4	595	148	69	1324
Ingalls, Walter R., and F. Wyatt, New York, N. Y. Treatment of ores of zinc	516,016	Mar. 6	458	-----	66	1537
Ingersoll, George W., assignor of one-half to H. Tesch, Stockton, Cal. Harvester	531,535	Dec. 25	2571	615	69	1732
Ingersoll, Howard S., deceased, New York, N. Y.; R. H. Ingersoll, administrator. Hand stamping device	521,287	June 12	953	226	67	1383
Ingersoll, Luman C., Keokuk, Iowa. Timber railway-tie	530,778	Dec. 11	1244	300	69	1457
Ingersoll, Robert H., administrator. (See Ingersoll, Howard S.)						
Ingersoll-Sergeant Drill Company. (See Sergeant, Henry C., assignor.)						
Ingham, Henry, Bellows Falls, Vt. Machine for maintaining air-pressure in chambers of hydraulic rams	521,167	June 12	735	174	67	1343
Ingham, Stephen. (See Rishworth, Ingham, and Vickers.)						
Ingham, William P., Middlesbrough, England. Construction of blast-furnaces, shafts, chimneys, &c.	528,480	Oct. 30	3063	{ 742 743 }	69	622
Ingle, George S., Evansville, Ind. Portable elevating and bag-holding machine	519,261	May 1	577	141	67	649
Ingraham, Arthur J., et al. (See Webster, George, assignor.)						
Ingram, Dwight B., et al. (See Cortright, Moses L., assignor.)						
Ingram, Franklin W., and E. E. Carr, Chicago, Ill. Furnace	524,328	Aug. 14	614	148	68	792
Ingram, Hellen K., Jacksonville, Fla. Railway-car	513,235	Jan. 23	2503	604	66	572
Ingram, Joseph C., San Francisco, Cal. Mouthpiece for musical wind-instruments	516,988	Mar. 20	2084	493	66	1873
Ingram, Milton H. (See Ashbrook and Ingram.)						
Ingram, Nathan D., Holyoke, Mass., and G. H. Moore, Norwich, Conn., assignors to Holyoke Machine Company, Holyoke, Mass. Calender-roll	516,490	Mar. 13	1245	298	66	1700
Ingram, Thomas D., Washington, D. C. Receptacle for small articles	521,116	June 5	646	152	67	1313
Ingram, Thomas D., Washington, D. C. Desk or stationery implement	527,859	Oct. 23	1960	471	69	407
Ink, Rolla N., Moselle, N. D. Rotary steam-engine	524,763	Aug. 21	1363	332	68	940
Innet, Edward S. (See Hepworth, Samuel S., assignor.)						
Interior Conduit and Insulation Company. (See Mace, Romaine, assignor.)						
Interior Conduit and Insulation Company. (See Wagner, Gustavus G., assignor.)						
International Automatic Air Brake Coupler Company. (See Summers, Smith W., assignor.)						
International Cigarette Machinery Company. (See Moonelis, Adolph, assignor.)						
International Railway Tie Company. (See Higley, Eben N., assignor.)						
International Register Company. (See Pratt, Charles E., assignor.)						
Interstate Coupler Company. (See Whitlock, Benjamin M., assignor.)						
Ireland, A. Bertsell, Greene, N. Y. Machine for cutting shingles and headings	525,049	Aug. 28	1877	{ 459 460 }	68	1050
Ireland, David M., Detroit, Mich. Float	521,501	June 19	1350	314	67	1474
Ireland, Robert H., New York, N. Y. Beam-framing machine	521,654	June 19	1604	376	67	1520
Irick, William M. (See Anderson and Irick.)						
Irion, John H., Table Rock, Nebr. End-board chute for wagons	526,971	Oct. 2	495	121	69	93
Irvin, John B., Grand View, Idaho, assignor of one-half to T. A. Merritt, Duluth, Minn. Apparatus for washing and separating gold	525,983	Sept. 11	1154	{ 262 263 }	68	1374
Irvine, Robert H., and A. T. Anderson, Conway, Mo. Machine for moving wagon-beds or wire-stretcher	526,231	Sept. 18	1581	371	68	1464
Irving, Frank K., assignor to Franklin Electric Company, New York, N. Y. Secondary battery	512,473	Jan. 9	1254	302	66	249
Irving, Whitmore, assignor to C. A. Steeves, Moncton, Canada. Support for vehicle-shafts	522,420	July 3	421	107	68	84
Irwin, Arthur A., Boston, Mass. Score-board for foot-ball games	515,959	Mar. 6	357	84	66	1520
Irwin, Edward C. and W. G., Winnipeg, Canada. Window-screen	530,272	Dec. 4	343	85	69	1278
Irwin, Robert W., Jr., Grand Rapids, Mich. Pencil-holder	523,428	July 24	2163	545	68	452
Irwin, William G. (See Irwin, Edward C. and W. G.)						
Irwin, William G., Cincinnati, Ohio. Show-case	517,342	Mar. 27	2698	633	66	2009
Irwin, William S., Knoxville, Tenn. Combined chicken-coop and hawk-trap	521,266	June 12	912	215	67	1375
Isaacs, Augusta R., New York, N. Y. Fire box and grate for ranges, stoves, or heaters	518,457	Apr. 17	1778	442	67	358
Isaacs, Isaac A., New York, N. Y. Electrical foot-bath	517,862	Apr. 10	729	123	67	155
Isaacs, John D. (See Curtis and Isaacs.)						
Isaacson, John F., Chicago, Ill. Heel randing and trimming machine	515,492	Feb. 27	2504	{ 619 620 }	66	1367
Ish, James T., assignor to S. Bonfield, San Francisco, Cal. Rowlock	524,171	Aug. 7	350	83	68	725
Iske, Albert. (See Iske, Anthony and A.)						
Iske, Albert, assignor to D. F. Buchmiller, Lancaster, Pa. Latch	524,594	Aug. 14	1072	265	68	875
Iske, Anthony and A., Lancaster, Pa. Article for table-service	514,322	Feb. 6	598	151	66	965
Iske, Anthony and A., Lancaster, Pa. Slicing-machine	519,959	May 15	1780	436	67	898
Israel, Adolf, and K. Pathe, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Gray dye	515,339	Feb. 27	2260	-----	66	1322
Ivens, Edmund M., assignor to E. L. Ivens, New Orleans, La. Rope-laying device	523,577	July 24	2428	{ 609 610 }	68	500
Ivens, Emily L. (See Ivens, Edmund M., assignor.)						
Ives, Carrie L. (See Ives, Lewis J., assignor.)						
Ives, Charles A., Newport, R. I. Bicycle or other traction wheel	516,054	Mar. 6	522	122	66	1550
Ives, Frederic E., Philadelphia, Pa. Photochromoscope and photochromoscope-camera	531,040	Dec. 18	1677	398	69	1551
Ives, Frederick A., Grant's Pass, Oreg. Metallic packing	518,844	Apr. 24	2432	602	67	487
Ives, Frederick C., assignor of two-thirds to N. M. Ives, Granville, and E. W. Hall, Whitehall, N. Y. Currycomb	516,160	Mar. 6	686	161	66	1581
Ives, H. J. (See Babbitt, Seth W., assignor.)						
Ives, John F., Cleveland, Ohio, assignor to Mechanical Rubber Company, New York, N. Y. Pneumatic-valve base	525,709	Sept. 11	679	157	68	1238

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Ives, John F., and F. B. Colman, New York, N. Y. Valve	515,290	Feb. 20	2167	538	66	1293
Ives, Lewis J., assignor to C. L. Ives, Medina, N. Y. Wire fence	522,375	July 3	342	87, 88	68	68
Ives, Nellie M., et al. (See Ives, Frederick C., assignor.)						
Ivory, James W. (See Elliott, Walter S., assignor.)						
Ivory, James W., Philadelphia, Pa. Rubber-dam clamp	513,328	Jan. 23	2651	643	66	600
J. B. Bowden & Company. (See Bernhardt, Herman V., assignor.)						
J. & E. Stevens Company. (See Bailey, Charles A., assignor.)						
J. F. Kitchell Manufacturing Company. (See Heilmann, Frederick W., assignor.)						
J. F. Kitchell Manufacturing Company of New Jersey. (See Heilmann, Frederick W., assignor.)						
J. J. Warren Company. (See Elliott, Bamford, assignor.)						
J. L. Mott Iron Works. (See Blackmore, Joseph J., assignor.)						
J. L. Mott Iron Works. (See Hooper, Louis M., assignor.)						
J. L. Mott Iron Works. (See Reid, John, assignor.)						
J. L. Mott Iron Works. (See Reid and Hammann, assignors.)						
J. L. Alsing Company. (See Abbé, Richard F., assignor.)						
J. R. Little Metal Wheel Company. (See Little, James R., assignor.)						
J. W. Sefton Manufacturing Company. (See Goetsch, Herman, assignor.)						
Jackaway, William, assignor of one-half to C. L. Bosler, Waukegan, Ill. Cut-off for steam-engines	521,714	June 19	1706	{ 401 402 }	67	1511
Jackman, Charles L. (See Jackman, Lyman, assignor.)						
Jackman, Lemuel N., and C. A. Smith, Elgin, assignors to Elgin National Watch Company, Chicago, Ill. Mechanism for loading watch-jewels	521,715	June 19	1707	{ 402 403 }	67	1541
Jackman, Lyman, assignor of one-half to C. L. Jackman, Concord, N. H. Heating-furnace	525,763	Sept. 11	766	177	68	1304
Jackson, Byron, San Francisco, Cal. Steam-engine	511,954	Jan. 2	354	89	66	73
Jackson, Byron, San Francisco, Cal. Steering mechanism for traction-engines	529,495	Nov. 20	1766	{ 420 421 }	69	1006
Jackson, Caleb H. (See Lugo, Orazio, assignor.)						
Jackson, Caleb H. (See Vander Weyde and Lugo, assignors.)						
Jackson, Charles E. (See Drew, Stephen C., assignor.)						
Jackson, Charles W. (See Caffall, Edward M., assignor.)						
Jackson, David, and J. Osterloh, New York, N. Y. Lantern	529,794	Nov. 27	2251	537	69	1101
Jackson, Edwin. (See Jackson, Samuel, assignor.)						
Jackson, Edwin M., and F. Roberts, Chicago, Ill. Pipe-wrench	518,818	Apr. 24	2398	592	67	481
Jackson, Francis, Raisinville, Mich. Device for converting reciprocating into rotary motion	519,064	May 1	213	50	67	577
Jackson, Francis, assignor of one-half to F. Atkinson, Raisinville, Mich. Washing-machine	518,407	Apr. 17	1686	{ 417 418 }	67	341
Jackson, George W., R. Smith, and E. A. Bennett, Weston, W. Va. Car-coupling	516,601	Mar. 13	1435	{ 340 341 }	66	1735
Jackson, J. J. (See Nickle, Alfred, assignor.)						
Jackson, James H., Keady, Canada. Bob-sleigh	516,094	Mar. 6	581	136	66	1561
Jackson, James M., assignor to M. K. Jackson, Millport, N. Y. Churn	530,531	Dec. 11	820	203	69	1381
Jackson, John, Clinton, Iowa. Type-writing machine	529,387	Nov. 20	1553	{ 371 372 }	69	970
Jackson, Milton, Philadelphia, Pa. Combined latch and lock	516,765	Mar. 20	1719	404	66	1803
Jackson, Myra K. (See Jackson, James M., assignor.)						
Jackson, Oren E. (See Shipley, Peter C., assignor.)						
Jackson, Oswald. (See Grueter and Jackson.)						
Jackson Pipe Organ Company. (See Jackson, Richard W., assignor.)						
Jackson, Richard W., assignor to Jackson Pipe Organ Company, Chester, Ill. Pipe-organ	520,924	June 5	321	{ 78 79 80 }	67	1255
Jackson, Richard W., assignor to Jackson Pipe Organ Company, Chester, Ill. Combination stop-action for pipe-organs	520,925	June 5	329	80	67	1256
Jackson, Robert M. (See Mullins and Jackson.)						
Jackson, Samuel, assignor to E. Jackson, Syracuse, N. Y. Rock-breaker	526,654	Sept. 25	2310	552	68	1614
Jackson, Samuel L., and A. P. Brann, assignors of one-third to S. Rosenberger, Cincinnati, Ohio. Cigar-bunching machine	511,892	Jan. 2	224	65	66	55
Jackson, Thomas A., Easton, Ga. Cotton-seed-separating machine	520,315	May 22	2407	{ 585 586 }	67	1027
Jackson, Walter W. (See Connet and Jackson.)						
Jackson, William, Plymouth, Ind. Obstetrical apron	519,713	May 15	1391	335	67	825
Jacobs, Arthur I. (See Coles, Smith, Jamieson, and Jacobs.)						
Jacobs, Arthur I., Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Swaging-machine	514,147	Feb. 6	278	68	66	906
Jacobs, George T. (See Webb and Jacobs.)						
Jacobs, Jacob, New York, N. Y. Ventilating vault-cover	518,888	Apr. 24	2512	{ 621 622 }	67	503
Jacobs, John C., A. Keil, and J. H. Roemer, Buffalo, N. Y. Street-railway switch	526,152	Sept. 18	1444	337	68	1439
Jacobs, John E. (See Roney, Alexander B., assignor.)						
Jacobs, Jonathan, assignor of one-half to W. H. Broadhurst, Browningsville, Md. Wagon-brake	520,849	June 5	173	38	67	1228
Jacobs, Joseph, Nevada City, Cal. Feathering paddle-wheel	537,991	Oct. 23	2218	535	69	454
Jacobs, Zebulon H., Salt Lake, Utah Ter. Bedclothes-fastener	512,966	Jan. 16	2098	497	66	422
Jacobsen, Marcus P., Jamestown, N. Y. Wagon	528,598	Nov. 6	133	33	69	670
Jacobson, John, assignor to E. P. Howe, Boston, Mass. Mirror	514,148	Feb. 6	281	68	66	906
Jacobus, Charles, New York, N. Y. Base-ball bat	514,420	Feb. 6	732	186	66	992
Jacoby, Albert S. (See Cooper and Jacoby.)						
Jacoby, Frederik, Milwaukee, Wis. Refrigerator	522,118	June 26	2427	583	67	1690
Jacoby, John W., St. Louis, Mo. Heat-regulating valve for incubators	516,491	Mar. 13	1246	299	66	1701
Jacoby, Mahlon L., Reading, Pa. Propulsion gearing for bicycles	516,933	Mar. 20	1993	{ 468 469 }	66	1856
Jacoby, Medwin L. (See Wright and Jacoby.)						
Jacot, Charles H., Stapleton, assignor to Jacot & Son, New York, N. Y. Music-box attachment for clocks	514,470	Feb. 13	827	209	66	1026
Jacot, Charles H., Stapleton, assignor to Jacot & Son, New York, N. Y. Coin-controlled apparatus	518,720	Apr. 24	2235	556	67	453
Jacot & Son. (See Jacot, Charles H., assignor.)						
Jacques, George J. H. (See Morin and Jacques.)						
Jacques, William W., Newton, assignor to American Bell Telephone Company, Boston, Mass. Multiplex telephony	518,367	Apr. 17	1627	{ 401 402 }	67	330
Jacques, William W., Newton, assignor to American Bell Telephone Company, Boston, Mass. Variable-resistance medium for telephones	524,172	Aug. 7	351	68	725

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Jacques, William W., Newton, assignor to American Bell Telephone Company, Boston, Mass. Variable-resistance medium for telephones	524,173	Aug. 7	351	376	68	725
Jaeger, Albert, Jersey City, N. J. Boiler	521,655	June 19	1606	377	67	1520
Jaeger, Charles L., Maywood, N. J. Induction-coil	524,636	Aug. 14	1150	282	68	890
Jaeger, Christian, Philadelphia, Pa. Album	527,204	Oct. 9	854	208	69	174
Jaeger, Emil, Münster, Germany. Machine for peeling potatoes, &c.	524,420	Aug. 14	800	196	68	824
Jaeger, Gustav L., assignor to Brewing Improvement Company, Maywood, N. J. Apparatus for torrefying hops	514,265	Feb. 6	501	123	66	947
Jaeger, Heinrich W. F., Sandusky, Ohio. Draw-bar guide	525,904	Sept. 11	1025	232	68	1350
Jaeger, Michael. (See Eisele, Otto, assignor.)						
Jaeger, Winfield S., assignor to W. A. B. and F. D. Holmes, Trenton, N. J. Hanger for pictures	527,793	Oct. 23	1813	443	69	387
Jäenisch, Hermann, Tschirnau, near Gubrau, Germany. Circle harrow	513,329	Jan. 23	2652	643	66	600
Jägel, Louis N., Clarenceville, C. G. Smith and A. B. Pruden, Brooklyn, N. Y. Railway-switch	521,716	June 19	1710	403	67	1541
Jagelitz, Carl, Husum, Germany. Device for stopping runaway horses	520,057	May 22	1949	477	67	944
Jagerson, Frank E. (See Gerhardt and Jagerson.)						
Jagger, Eli, Oldham, England. Step-protector for spindles	517,573	Apr. 3	259	60	67	51
Jahant, Augustus, assignor of one-half to J. C. Weber, Akron, Ohio. Grate for furnaces or stoves	528,165	Oct. 30	2510	607	69	523
Jahn, Max, Leipsic-Plagwitz, Germany. Stove	522,015	June 26	2266	543	67	1660
Jahn, Nicholas, et al. (See Green, William A., assignor.)						
Jahr, Rudolf H., assignor of one-half to C. F. Schoeller, Opladen, Germany. Electric-arc lamp	524,981	Aug. 21	1723	422	68	1005
Jaimison, John W., Vallejo, Cal. Child's carriage	526,972	Oct. 2	496	121	69	93
Jaiser, Mary. (See Harris and Jaiser.)						
Jakobson, Karl A., assignor to L. A. Enger & Co., Christiania, Norway. Gas-motor	514,996	Feb. 20	1678	420	66	1202
Jakobsson, Herman, London, England. Carriage or mounting for artillery	531,417	Dec. 25	2362	564	69	1693
Jakobovitzky, Géza, Buda-Pesth, Austria-Hungary. Valve-gear	527,063	Oct. 9	638	155	69	134
James, Charles H., Wabash, Ind. Spraying-pump	527,794	Oct. 23	1845	443	69	387
James, Christopher, Swansea, and W. Griffiths, Burry Port, England. Metallurgical furnace	513,614	Jan. 30	3149	773	66	727
James, Christopher R., Jersey City, N. J. Air-brake	524,990	Aug. 21	1753	427	68	1011
James, George B., trustee. (See Campbell, Henry F., assignor.)						
James, George E., et al. (See Gregory, Nathan B., assignor.)						
James, Henry G., Corsham, near Chippenham, England. Funnel	530,690	Dec. 11	1097	266	69	1429
James, Howard K. (See Mayer, Louis G., assignor.)						
James, Howard K., et al. (See Behlen, Charles A., assignor.)						
James, John E., Mossy Creek, Va. Horseshoe	524,681	Aug. 14	1218	297	68	902
James, John E., assignor of one-half to J. M. Williams, Worthington, Pa. Lampblack or carbon-black machine	521,797	June 26	1861	446	67	1585
James Leffel & Company. (See Bookwalter and Tyler, assignors.)						
James Leffel & Company. (See Sparks, Albert F., assignor.)						
James, Owen, Scranton, Pa. Measuring-tank	524,900	Aug. 21	1585	388	68	981
James, Parker, Vandalia, Mich. Clasp	518,956	May 1	32	9	67	542
James, Thomas and W. T., Braddock, Pa. Pipe connection for fluids	531,615	Dec. 25	2707	649	69	1760
James, William A., assignor to Chicago Stamping Company, Chicago, Ill. Faucet for cans	519,534	May 8	1093	262	67	758
James, William T. (See James, Thomas and W. T.)						
Jamieson, William. (See Coles, Smith, Jamieson, and Jacobs.)						
Jamison, George. (See Severance, Jamison, and Branch.)						
Jamison, Samuel W., Boston, Mass., assignor to S. W. Jamison Boot and Shoe Crimping Machine Company, New York, N. Y. Crimping-machine	518,249	Apr. 17	1405	352	67	290
Jandell, Frank W., Mapleton, N. D. Safety attachment for elevators	521,589	June 19	1500	352	67	1500
Jandus, William, assignor of one-half to J. B. Barton, Cleveland, Ohio. Electric-arc lamp	513,111	Jan. 23	2301	556	66	531
James, Henry, Waterbury, Vt. Vibrator for reed musical instruments	518,957	May 1	33	9	67	542
Janin, Alexis, San Francisco, Cal. Amalgamating silver ores	516,055	Mar. 6	524	122	66	1550
Janin, Alexis, and C. W. Merrill, San Francisco, Cal. Leaching ores with solutions of alkaline cyanides	515,148	Feb. 20	1925	.....	66	1247
Janka, Johann, Prague, Austria-Hungary. Fountain-pen	523,352	July 24	2041	513	68	431
Janke, Otto, assignor of one-third to J. L. Nelle, St. Louis, Mo. Cane-gun	518,546	Apr. 17	1921	475	67	382
Janney & Co., Thomas, Jr. (See O'Sullivan, Michael J., assignor.)						
Janowitz, Julius, New York, N. Y. Dress-stay	512,113	Jan. 2	644	154	66	124
Janssen, John T. (See Kleinstenber, Oscar D. and M. A., assignors.)						
Jarmin, George W., Corpus Christi, Tex. Lantern	530,049	Nov. 27	2727	653	69	1196
Jarmin, George W., assignor of one-half to R. Givens, Corpus Christi, Tex. Lantern	522,002	June 26	2333	560	67	1673
Jaros, Samuel, assignor to Beach Manufacturing Company, Hartford, Conn. Knitting-machine	527,113	Oct. 9	711	174	69	147
Jarrett, George L., Des Moines, Iowa. Sieve-scalper	511,847	Jan. 2	158	40	66	33
Jarvis, Charles M., Erie, Pa. Turn-indicator	526,489	Sept. 25	2054	489	68	1566
Jarvis, Charles M., assignor of one-half to Hayes Manufacturing Company, Erie, Pa. Machine for grinding cocks automatically	521,980	June 26	2200	529	67	1649
Jarvis, James M., assignor of one-half to J. Darrow, Mesick, Mich. Portable fireproof chimney	512,707	Jan. 16	1621	389	66	333
Jauch, Joseph, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Suspension-ring for harps for hanging lamps	512,967	Jan. 16	2099	497	66	422
Jauch, Joseph, assignor to Bradley & Hubbard Manufacturing Company, Meriden, Conn. Air-distributor for central-draft lamps	529,496	Nov. 20	1768	421	69	1006
Jaus, William P., assignor of one-half to C. H. Schuller, Indianapolis, Ind. Pneumatic tire	522,663	July 10	834	208	68	177
Jay, Aaron, Chicago, Ill. Furnace	522,215	July 3	72	15	68	14
Jay, William H., Providence, R. I. Screw-propeller	528,253	Oct. 30	2671	643	69	552
Jeavons, William R. (See Lannert, Jeavons, and Wilder.)						
Jeavons, William R. (See Wilder, Thissell, Lannert, and Jeavons.)						
Jedeck, Ferdinand W. T., Berlin, Germany. Umbrella-rib-locking device	522,016	June 26	2267	543	67	1660
Jedeck, Ferdinand W. T., Berlin, Germany. Umbrella-rib-locking device	522,017	June 26	2268	544	67	1660
Jefferson, Charles B., et al. (See Chapman, Frank M., assignor.)						
Jefferson, Charles B., Buzzard's Bay, Mass. Stage appliance	524,174	Aug. 7	352	83	68	726
Jeffery, Benjamin A. (See Jeffery, Joseph A. and B. A.)						
Jeffery, Joseph A. and B. A., San Francisco, Cal. Electric dental engine	530,344	Dec. 4	477	118	69	1301

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Jeffery, Thomas B., Chicago, Ill. Velocipede-handle-bar fastening	516,739	Mar. 20	1685	399	66	1797
Jeffery, Thomas B., Chicago, Ill. Pneumatic tire	523,282	July 17	1918	482	68	391
Jeffery, Thomas B., Chicago, Ill. Pneumatic tire	523,283	July 17	1919	483	68	391
Jeffery, Thomas B., Chicago, Ill. Velocipede	527,607	Oct. 16	1529	371	69	311
Jeffery, Thomas B., assignor to Gormully & Jeffery Manufacturing Company, Chicago, Ill. Wheel-tire	523,314	July 17	1977	497	68	403
Jeffrey, Albert D., Brooklyn, assignor to H. W. Harris, New York, N. Y. Mold	511,893	Jan. 2	285	66	66	55
Jeffrey, Joseph A. (See Franklin, John H., assignor.)						
Jeffrey, Joseph A. (See Miller, Charles W., assignor.)						
Jeffrey, Joseph A. (See Oayor, David N., assignor.)						
Jeffroya, Lemuel A. (See Williams, Henry B., assignor.)						
Jeffries, Gideon S., Reading, Pa. Automatic air-brake mechanism	513,267	Jan. 23	2568	620	66	584
Jehu, Margaret E., Estherville, Iowa. Apparatus for cooking, broiling, baking, &c.	514,079	Feb. 6	164	38	66	885
Jelly, Arthur H., Cambridge, Mass. Fender for cars	519,472	May 8	968	233	67	735
Jelly, Arthur H., Cambridge, Mass. Car provided with fenders	519,714	May 15	1391	336	67	825
Jenckes, Ray G., Terre Haute, Ind. Heminy-mill	522,468	July 3	506	128	68	101
Jencka, George A., and G. W. Parker, Pawtucket, R. I. Water-return system	524,718	Aug. 21	1290	316	68	927
Jencks, Walter P., Lakewood, assignor to himself, and G. L. Vose, Providence, R. I. Driving mechanism for bicycles or similar vehicles	523,964	July 31	3136	781	68	648
Jeniczek, Ferdinand. (See Jernetz and Jeniczek.)						
Jenkins, David, assignor to Jenkins Machine Company, Sheboygan, Wis. Planing-machine	526,903	Oct. 2	393	98, 99	69	73
Jenkins, Ebenezer C., Shrewsbury, Mass. Elevator-door-operating mechanism	518,408	Apr. 17	1687	418	67	341
Jenkins, Ebenezer C., Shrewsbury, Mass. Elevator-door-operating mechanism	518,409	Apr. 17	1688	418	67	342
Jenkins, Frank W., Brooklyn, N. Y. Safety appliance for street-railway cars	521,981	June 26	2206	530	67	1650
Jenkins, George H. (See Jones, Frank, assignor.)						
Jenkins, George O., et al. (See Park, William R., assignor.)						
Jenkins, Hiram H., et al. (See Park, William R., assignor.)						
Jenkins, James E., et al. (See Tisdale, Charles D., assignor.)						
Jenkins, Jenkin. (See Day and Jenkins.)						
Jenkins, John C., et al. (See Henderson, David, assignor.)						
Jenkins, John C., Homosassa, Fla. Mail-bag	515,229	Feb. 20	2059	513	66	1271
Jenkins, Joseph H., Lynn, assignor to General Electric Company, Boston, Mass. Controller for electric motors	524,385	Aug. 14	732	177	68	812
Jenkins, Lancaster Z., Philadelphia, Pa. Canopy for bicycles	522,063	June 26	2335	560	67	1673
Jenkins, Lewis, Handsworth, England. Miner's safety-lamp	526,711	Oct. 2	70	18	69	16
Jenkins Machine Company. (See Jenkins, David, assignor.)						
Jenkins, Marion R., Browning, Mo. Hay stacker and loader	514,715	Feb. 13	1235	308	66	1104
Jenkins, Samuel B., assignor to American Electric Heating Company, Boston, Mass. Electric radiator	516,095	Mar. 6	582	136	66	1561
Jenkins, Samuel B., assignor to American Electric Heating Company, Boston, Mass. Electric heater	519,043	May 1	172	41	67	569
Jenkins, Wilton F., Richmond, Va. Underground-conduit railway	517,749	Apr. 3	563	137	67	109
Jenkins, Wilton F., Richmond, Va. Conduit electric railway	517,804	Apr. 3	647	138	67	126
Jenkinson, Samuel, et al. (See Knipper, Peter H. and J. G., assignors.)						
Jenks, Sumner W. (See Corns and Jenks.)						
Jenks, William H., Brookville, Pa. Valve for engines	517,863	Apr. 10	730	184	67	155
Jenne, Chancy R., Fort Wayne, Ind. Lamp sketching-camera	520,058	May 22	1950	477	67	944
Jenne, Charles H., Indianapolis, Ind., assignor to Jenne Compound Rail Company, New York, N. Y. Railway-rail	514,716	Feb. 13	1236	308	66	1104
Jenne Compound Rail Company. (See Jenne, Charles H., assignor.)						
Jeness, Edwin J., Chicago, Ill. Pneumatic tire	520,736	Nov. 27	2160	515	69	1088
Jenney, Charles D., Indianapolis, Ind. Conduit electric railway	523,146	July 17	1685	421	68	349
Jennings, Curtis M., St. Louis, Mo. Car-roof	521,087	June 5	599	141	67	1305
Jennings, Emil H., et al. (See Dobbins, Douglas, assignor.)						
Jennings, George F., Fall River, Mass. Hoisting mechanism	523,297	Oct. 30	2748	664	69	565
Jennings, John J. (See Scofield and Jennings.)						
Jennings, Joseph H., Middleway, W. Va. Guard for cars	526,532	Sept. 25	2114	506	68	1577
Jennings Lace Works. (See Spooner, Spencer, assignor.)						
Jennings, William B., et al. (See Dobbins, Douglas, assignor.)						
Jennings, William C., Camden, N. J. Thrut-head for drill-machines	520,362	May 22	2497	603	67	1045
Jensen Can Filling Machine Company. (See Jensen, Mathias, assignor.)						
Jensen, H. P. (See Larsen, Hans, assignor.)						
Jensen, Hans P., Mankato, Minn. Sleigh	530,948	Dec. 18	1517	359	69	1522
Jensen, Heinrich J. E., Hamburg, Germany. Filter	516,439	Mar. 13	1159	278	66	1684
Jensen, Jens, Kolding, Denmark. Smoothing and pressing iron	512,032	Jan. 2	507	120	66	97
Jensen, Jens S., Thisted, Denmark, assignor to J. D. Frederiksen, Little Falls, N. Y. Suction-pump for cow-milking machines	529,865	Nov. 27	2378	569	69	1130
Jensen & Lauritzen. (See Dorsey, Richard V., assignor.)						
Jensen, Mathias, assignor of one-half to Jensen Can Filling Machine Company, Astoria, Oreg. Can-soldering machine	516,308	Mar. 13	932	219	66	1643
Jensen, Mathias, assignor to Jensen Can Filling Machine Company, Astoria, Oreg. Can-heading machine	518,105	Apr. 10	1148	288	67	226
Jensen, Neils H., Philadelphia, Pa. Roaster	525,905	Sept. 11	1026	232	68	1350
Jensen, Ole T., Weatherford, Tex. Plow attachment	521,117	June 5	648	152	67	1314
Jensen, Theodor V., Copenhagen, Denmark. Shutter mechanism for cameras	530,486	Dec. 4	729	178	69	1348
Jernetz, Franz, and F. Jeniczek, Vienna, Austria-Hungary. Contrivance for diminishing the danger to foot-passengers from street-railways	519,911	May 15	1703	415	67	884
Jernigan, Henry R., assignor of one-half to J. H. Wall, Charlton, Ala. Baling-press	521,118	June 5	650	153	67	1314
Jerome, Charles C., Chicago, Ill. Manufacturing horse-shoes of aluminium	511,777	Jan. 2	54	14	66	13
Jerome, Charles C., Chicago, Ill. Horseshoe	514,753	Feb. 13	1303	325	66	1117
Jerome, Eugene M. (See Hirsch, Feeder, assignor.)						
Jerstrum, Herbert, assignor of one-half to H. A. Streeter, Chicago, Ill. Cigar-bunch machine	528,166	Oct. 30	2511	607	69	523
Jeschke, Charles W. and E., Vickery, Ohio. Ditching-machine	526,264	Oct. 2	326	80	69	62
Jeschke, Edward. (See Jeschke, Charles W. and E.)						
Jeschke, Wladyslans, Brooklyn, N. Y. Portfolio	515,687	Feb. 27	2823	703	66	1430
Jess, William, Delray, Mich. Flue-cleaner	528,132	Oct. 23	2459	595	69	498

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Jessen, Henry L., Watsonville, Cal. Bedclothes-clamp	526,490	Sept. 25	2056	489	68	1566
Jesson, John B. (See Fretz and Jesson.)						
Jessup, Nathan C., Westhampton Beach, N. Y. Drawbridge	514,754	Feb. 13	1304	325	66	1117
Jessup, Nathan C., West Hampton Beach, N. Y. Lee-wing for vessels	517,864	Apr. 10	732	184	67	155
Jessup, Robert W., Los Angeles, assignor of one-half to F. H. Wheelan, Santa Barbara, Cal. Separator	516,440	Mar. 13	1160	278	66	1685
Jessup, Robert W., Los Angeles, assignor of one-half to F. H. Wheelan, Santa Barbara, Cal. Separator	528,434	Oct. 30	2977	720	69	606
Jett, James, Walla Walla, Wash. Amalgamator	525,984	Sept. 11	1156	263	68	1374
Jewell, Charles E., Toronto, Canada, assignor of one-half to M. R. Jewell, Rochester, N. Y. Inkstand	517,384	Mar. 27	2803	654	66	2029
Jewell, Edward. (See O'Neill, Henry G., assignor.)						
Jewell, Major R. (See Jewell, Charles E., assignor.)						
Jewell, Major R., Rochester, N. Y. Ruler	518,758	Apr. 24	2298	571	67	463
Jewell, Major R., Rochester, N. Y. T-square rule	518,759	Apr. 24	2299	571	67	464
Jewell, William, Cleveland, Ohio. Car-jack	524,440	Aug. 14	828	202	68	830
Jewell, Winfield S., Indianapolis, Ind., and A. C. Stevens, Des Moines, Iowa. Time and dating stamp	512,378	Jan. 9	1068	261	66	213
Jewelsky, Hamond A., New York, N. Y. Shoe	525,079	Aug. 28	1928	472	68	1059
Jewett, Carrie A., administratrix. (See Jewett, Charles C.)						
Jewett, Charles C., deceased; C. A. Jewett, Sand Spring, Iowa, administratrix, assignor to Rock Island Plow Company, Rock Island, Ill. Hay-loader	530,691	Dec. 11	1099	{ 266 267 }	69	1430
Jewett, Francis A., assignor to M. Cantine, Saugerties, N. Y. Rotary display-rack	518,526	Apr. 17	1891	{ 468 469 }	67	377
Jewett, John H., Menominee, Mich. Combined mop head and wringer	523,791	July 31	2816	699	68	586
Jewett, Luther K., Boston, Mass. Antifriction side bearing for cars	511,955	Jan. 2	386	90	66	73
Jewett, Luther K., Boston, Mass. Car-body bolster	512,968	Jan. 16	2100	498	66	422
Jewett, Luther K., Boston, Mass. Car construction	512,969	Jan. 16	2102	{ 498 499 }	66	423
Jewiss, Walter S. (See Klenk, Christian, assignor.)						
Jilek, John, Monticello, Iowa. Sawing-machine	521,317	June 12	1004	236	67	1392
Jobbins & Van Ruyambeke. (See Van Ruyambeke, Joseph, assignor.)						
Jobbins, William F. (See Van Ruyambeke, Joseph, assignor.)						
Jobbins, William F., et al. (See Dyer, Frank L., assignor.)						
Jobbins, William F., et al. (See Schweizer, Adolph, assignor.)						
Jobert, Felicien, assignor of one-half to J. Wauthy, East Long Meadow, Mass. Car-comp-ling	522,343	July 3	288	75	68	58
Jobin, Louis, Quebec, Canada. Blind-stop	518,368	Apr. 17	1630	402	67	331
Jochmus, Augustus C., and F. M. Boughton, Monterey, Cal. Door-bolt socket	526,924	Oct. 2	429	106	69	80
Jochum, Paul, Ottweiler, assignor to Grusonwerk, Magdeburg, Germany. Apparatus for removing measured quantities of granular material from receptacles	513,932	Jan. 30	3649	900	66	823
Jodoin, Pierre, assignor to himself and J. W. Fernald, Worcester, Mass. Clothes-drier	523,315	July 17	1978	497	68	403
Joel B. Ettlinger Machine Company. (See Ettlinger, Joel, assignor.)						
Joerissen, Carl A., assignor of one-half to L. F. Joerissen, Ilion, N. Y. Type-cleaning device for type-writing machines	520,850	June 5	176	38	67	1229
Joerissen, Louis F. (See Joerissen, Carl A., assignor.)						
Joers, Frederick. (See Abraham, Max, assignor.)						
Johanson, Emil G., assignor to C. Alstrom and O. Hagenson, Rockford, Ill. Loom	521,656	June 19	1608	377	67	1521
Johanson, Johan A. (See Olsson, Olaus, assignor.)						
Johanson, John P., New York, N. Y. Electric washing-machine	512,970	Jan. 16	2103	499	66	423
John F. Byers Machine Company. (See Byers, John F., assignor.)						
John J. Hayes Machine Company. (See Hayes, John J., assignor.)						
John Tobin Manufacturing Company. (See Tobin, John, assignor.)						
Johns, Calvin L., Kemp, Tex. Cotton-sack carrier	526,395	Sept. 25	1881	447	68	1535
Johns, Hanson A., Philadelphia, Pa. Elevator	530,273	Dec. 4	345	85, 86	69	1278
Johns, Henry W., New York, N. Y. Steam-packing	524,441	Aug. 14	829	203	68	830
Johns-Pratt Company. (See Crane, William F. D., assignor.)						
Johns-Pratt Company. (See Lee, Charles T., assignor.)						
Johns-Pratt Company. (See Luscomb, Henry H., assignor.)						
Johns-Pratt Company. (See Perry, James W., assignor.)						
Johns, Richard J. (See Holroyd, Hunt, and Johns.)						
Johns, Will R., Rockford, Ill. Circular-knitting machine	531,463	Dec. 25	2458	585	69	1711
Johnson, A. C., et al. (See Paris, Robert L., assignor.)						
Johnson, A. S., et al. (See Fryer, Robert M., assignor.)						
Johnson, Adolf E., Wakefield, Mass. Cable-hanger	516,205	Mar. 13	773	180	66	1613
Johnson, Alexander A., Clarksville, Tenn. Skate	526,655	Sept. 25	2312	553	68	1614
Johnson, Alfred, and W. S. Campbell, West Point, Ind. Safety-switch	518,007	Apr. 24	2022	{ 502 503 }	67	416
Johnson, Andrew, Manistee, Mich. Car-standard	520,434	May 29	2608	631	67	1082
Johnson, Arthur H., Rahway, N. J. Railway-signal	514,192	Feb. 6	361	86	66	92
Johnson, Arthur H., Rahway, N. J. Detector-bar-operating mechanism	515,493	Feb. 27	2505	620	66	1367
Johnson, Arthur H., Rahway, N. J. Switch and lock movement	518,721	Apr. 24	2237	557	67	453
Johnson, Arthur H., Rahway, N. J. Lever-controlling device	520,926	June 5	331	80	67	1257
Johnson, August E., Osage City, Kans. Oil-can	516,540	Mar. 13	1335	318	66	1717
Johnson, Axel, and H. C. Black, Oakland, Cal. Can-making machine	526,925	Oct. 2	430	{ 106 107 }	69	80
Johnson, Charles A., Moline, Ill. Plow	514,552	Feb. 13	959	243	66	1051
Johnson, Charles B., et al. (See Sherman, Willis D., assignor.)						
Johnson, Charles E., et al. (See Peirce, Almy L., assignor.)						
Johnson, Charles E., Mount Jackson, Ind. Ribbon-reversing mechanism for type-writing machines	512,584	Jan. 9	1416	{ 341 342 }	66	279
Johnson, Charles E., Mount Jackson, Ind. Ribbon-reversing mechanism for type-writing machines	521,288	June 12	954	226	67	1363
Johnson, Charles E., Mount Jackson, Ind. Ribbon-feed-reversing mechanism	526,783	Oct. 2	191	45, 46	69	36
Johnson, Charles F., Hartford, Conn. Steam-plow	517,047	Mar. 27	2202	{ 521 522 }	66	1912
Johnson, Charles H., assignor of one-third to J. R. Brinsmade, Derby, Conn. Curling-iron	527,176	Oct. 9	813	198	69	166
Johnson, Charles J. (See Stevenson and Johnson.)						
Johnson, Charles N., San Francisco, Cal. Stovepipe-shelf	525,461	Sept. 4	243	59	68	1195
Johnson, Charles T., Brooklyn, assignor to Berliner Brothers, S. Lindenborn, and M. Adler, New York, N. Y. Lock	518,211	Apr. 10	1337	333	67	961
Johnson, Charles W. (See Pruitt, Eugene R., assignor.)						
Johnson, Charley A., Ellis, Kans. Watch-balance staff and bearing	516,539	Mar. 13	1334	318	66	1717

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Johnson, Charley O., Sioux City, Iowa. Photographic-background holder	517,119	Mar. 27	2329	548	66	1937
Johnson, Chester F., Lowell, Mass. Combined book-holder, index, and writing-tablet	527,114	Oct. 9	717	175	69	148
Johnson Company. (See Benagh, Henry C., assignor.)						
Johnson Company. (See Brown, William M., assignor.)						
Johnson Company. (See Hunter, Rudolph M., assignor.)						
Johnson Company. (See O'Shea, Henry, assignor.)						
Johnson Company. (See Pfefferkorn, Wilhelm, assignor.)						
Johnson Company. (See Suppes, Maximilian M., assignor.)						
Johnson Company. (See Thomas, Henry W., assignor.)						
Johnson, Curtis. (See Laube, Godfried, assignor.)						
Johnson, Edward A. (See Miller, Andrew C., assignor.)						
Johnson, Edward C., New London, Conn. Steam-pump	519,065	May 1	215	50, 51	67	577
Johnson, Edward H. (See Lundell, Robert, assignor.)						
Johnson, Edward H., assignor to General Electric Company, New York, N. Y. Automatic cut-out for incandescent lamps	515,900	Mar. 6	358	81	66	1520
Johnson, Edward H., New York, and R. Lundell, Brooklyn, assignors to Johnson Subtrol-ley Company, New York, N. Y. Supply system for electric railways	523,164	July 17	1713	{ 430 431 }	{ 68 68 }	354
Johnson, Edward H., New York, and R. Lundell, Brooklyn, assignors to Johnson Subtrol-ley Company, New York, N. Y. Supply system for electric railways	523,165	July 17	1719	431	68	355
Johnson, Edward H., New York, and R. Lundell, Brooklyn, assignors to Johnson Subtrol-ley Company, New York, N. Y. Supply system for electric railways	523,166	July 17	1723	432	68	355
Johnson, Eli B., Chaumont, N. Y. Calculating attachment for weighing-scales	514,471	Feb. 13	828	210	66	1027
Johnson, Enos H., assignor, by mesne assignments, of one-half to J. Johnson, Chicago, Ill. Means for transmitting power from car-axes	513,046	Jan. 16	2211	{ 529 530 }	{ 66 66 }	444
Johnson, F. N. (See Keller, Thomas C., assignor.)						
Johnson, Ferdinand, New London, Pa. Fire-escape	514,997	Feb. 20	1680	{ 421 422 }	{ 66 66 }	1203
Johnson, Frank. (See Johnson, John H., assignor.)						
Johnson, Frank B., <i>et al.</i> (See Sherman, Willis D., assignor.)						
Johnson, Frank B., W. P. Hall, W. Oakley, and C. F. Currey, assignors to Johnson Syn-dicate Construction Company, Topeka, Kans. Process of and apparatus for the manu-facture of gas	520,401	May 22	2548	616	67	1055
Johnson, Frank H. (See Page, Albert G., assignor.)						
Johnson, Frank P., Danville, Pa. Antirattler for thill-couplings	515,688	Feb. 27	2826	703	66	1430
Johnson, Frank P., Danville, Pa. Nut and bolt lock	521,470	June 19	1293	301	67	1644
Johnson, Frank W. (See Backstrom and Johnson.)						
Johnson, Frederick D. (See Bauer and Johnson.)						
Johnson, Frederick W., Waltham, Mass. Device for preventing refilling of bottles	527,992	Oct. 23	2219	535	69	455
Johnson, George P., assignor of two-thirds to P. C. McNeil and W. J. Wilson, Gloversville, N. Y. Machine for shredding wood	511,778	Jan. 2	55	14, 15	66	13
Johnson, George W., Geneva, N. Y. Steam-boiler	516,816	Mar. 20	1794	425	66	1818
Johnson, George W., Floresville, Tex. Seed-sowing attachment for plows	521,542	June 19	1417	328	67	1486
Johnson, Harry T., Elizabeth, N. J. Electric time-recorder	521,386	Aug. 14	736	178	68	813
Johnson, Harry T., Elizabeth, N. J. Telephone-switch	524,387	Aug. 14	735	178	68	813
Johnson, Henry, Rahway, N. J. Three-position signal	514,191	Feb. 6	360	86	66	921
Johnson, Henry L., Washington, D. C. Letter-box	524,637	Aug. 14	1152	283	68	890
Johnson, Henry L. E. (See Ogram and Johnson.)						
Johnson, Henry S. (See Wildman, Robert, assignor.)						
Johnson, Iphichus, Peru, Ind. Latching device for double doors	525,906	Sept. 11	1026	232	68	1350
Johnson, J. C. (See Adkins, Joseph H., assignor.)						
Johnson, James L., assignor of one-half to L. A. Moffett and T. Mitchell, St. Louis, Mo. Smoke-consumer	512,884	Jan. 16	1960	465	66	398
Johnson, James S., Almont, Mich. Tubular sleigh	521,717	June 19	1711	404	67	1542
Johnson, Jeremiah P., Detroit, Mich. Carriage-top	520,433	May 29	2607	631	67	1082
Johnson, John A. (See Starks and Johnson.)						
Johnson, John A., Victoria, Ill. Two-wheeled vehicle	520,927	June 5	332	80, 81	67	1257
Johnson, John A., Chicago, Ill. Power-transmitter	523,429	July 24	2164	546	68	453
Johnson, John A., and N. O. Starks, Madison, Wis. Corn-harvester	516,309	Mar. 13	934	{ 219 220 }	{ 66 66 }	1644
Johnson, John C., assignor of one-half to J. W. Hampton, Dallas, Tex. Harrow	519,767	May 15	1472	356	67	840
Johnson, John H., Leicester, England, assignor of one-half to F. Johnson, Brockton, Mass. Attachment for boots or shoes	523,578	July 24	2430	610	68	500
Johnson, John O., Chicago, Ill. Combination-hand-saw	514,080	Feb. 6	165	38	66	885
Johnson, John R. (See Pine, Arthur F., assignor.)						
Johnson, Jonas A., Holmes City, Minn. Rotary steam-engine	522,296	July 3	212	57	68	43
Johnson, Jonathan, Lowell, Mass. Radiator	521,618	June 19	1549	362	67	1509
Johnson, Joseph. (See Johnson, Enos H., assignor.)						
Johnson, Joseph H., Bradford, Pa. Automatic water-feeder for steam-boilers	529,652	Nov. 20	2015	483	69	1052
Johnson, Joseph W., Point Pleasant, N. J. Shutter-fastener	529,621	Nov. 20	1969	469	69	1045
Johnson, Kenneth R., Franklin, Va. Cultivator or plow guide	512,301	Jan. 9	946	231	66	191
Johnson, Levi, Nemaha City, Nebr. Aerial tramway	523,895	July 31	2908	746	68	621
Johnson, Lewis, Wellmar, Minn. Ruling-pen	531,124	Dec. 18	1829	438	69	1578
Johnson, Lewis, and L. Fridlund, Willmar, Minn. Automatic gas cut-off	531,123	Dec. 18	1828	443	69	1578
Johnson, Lewis E., Greensburg, Ind. Dumping-wagon	522,987	July 17	1400	350	68	296
Johnson, Lorenzo R., Harrison Valley, Pa. Machine for pulverizing bark for leaching	529,796	Nov. 27	2255	538	69	1105
Johnson, Louis F., Poughkeepsie, N. Y. Track-circuit	521,412	June 12	1168	277	67	1425
Johnson, Louis F., Poughkeepsie, N. Y. Galvanic battery	522,836	July 10	1142	283	68	231
Johnson, Louis F., Poughkeepsie, N. Y. Current-separator	522,837	July 10	1143	283	68	231
Johnson, Louis F., Poughkeepsie, N. Y. Light-indicator	527,608	Oct. 16	1530	371	69	312
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	517,144	Mar. 27	2365	{ 558 559 }	{ 66 66 }	1944
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	523,740	July 31	2728	{ 675 676 }	{ 68 68 }	570
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	523,741	July 31	2730	{ 676 677 }	{ 68 68 }	570
Johnson, Louis K., Brooklyn, assignor to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	529,497	Nov. 20	1769	{ 421 422 }	{ 69 69 }	1007
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Empire Type-Set-ting Machine Company, of West Virginia. Type-distributing machine	526,106	Sept. 18	1363	{ 317 318 }	{ 68 68 }	1424
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	522,714	July 10	920	229	68	193
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	522,715	July 10	922	{ 230 231 }	{ 68 68 }	193
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	522,716	July 10	925	{ 231 232 }	{ 68 68 }	194

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Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	523,742	July 31	2732	677	68	570
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	523,743	July 31	2733	678	68	571
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	523,744	July 31	2735	678	68	571
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	523,745	July 31	2737	679	68	571
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	529,446	Nov. 20	1673	680	69	991
Johnson, Louis K., and A. A. Low, Brooklyn, assignors to Alden Type Machine Company, New York, N. Y. Type-setting apparatus	529,447	Nov. 20	1675	399	69	991
Johnson, Luther M., assignor of one-half to J. E. Dell, Paulding, Ohio. Elevator.	529,031	Nov. 13	920	401	69	833
Johnson, Martin, Milwaukee, Wis. Manual motor	522,376	July 3	344	218	68	487
Johnson, Minnie. (See Frost, John O., assignor.)				88, 89		
Johnson, Moses C., Hartford, Conn., assignor to T. & B. Tool Company, Portland, Me., and Danbury, Conn. Driving-clutch	527,064	Oct. 9	639	155	69	135
Johnson, Nels, Chippewa Falls, Wis. Sash-fastener	523,743	July 24	2361	592	68	487
Johnson, Nils, St. Louis, Mo. Furnace	529,795	Nov. 27	2253	537	69	1105
Johnson, Orville B. (See Paddock and Johnson.)				538		
Johnson, Paul L., Bishop Hill, Ill. Punching-machine	513,933	Jan. 30	3651	900	66	823
Johnson, Perry E., Rome, N. C. Feed-actuating device for planters	530,532	Dec. 11	821	204	69	1381
Johnson, Peter E. (See Williams, John F., assignor.)						
Johnson, Peter O., Rockford, Ill. Mangle	530,589	Dec. 11	923	226	69	1400
Johnson, Rasmus. (See Rasmusson and Johnson.)						
Johnson, Robert W., New Brunswick, N. J. Box-closure	515,865	Mar. 6	212	50	66	1493
Johnson, S. C. (See Van Valkenburg, Ellis M., assignor.)						
Johnson, S. Olin. (See Desmond, John, assignor.)						
Johnson, S. P., Schenectady, N. Y. Electric-arc lamp	521,798	June 26	1863	446	67	1585
Johnson, Samuel A., London, England. Sanitary arrangement for antomatically disinfecting water-closets, &c.	521,411	June 12	1166	277	67	1425
Johnson, Samuel W., Newport News, Va. Condenser	521,373	June 12	1110	262	67	1414
Johnson, Samuel W., Newport News, Va. Surface condenser	521,469	June 19	1291	301	67	1463
Johnson, Sidney, London, England. Wheel-hub	525,550	Sept. 4	393	95	68	1224
Johnson Subtrolley Company. (See Johnson and Lundell, assignors.)						
Johnson Syndicate Construction Company. (See Johnson, Hall, Oakley, and Currey, assignors.)						
Johnson, Thomas H., Plymouth, Fla. Animal-muzzle	518,845	Apr. 24	2433	603	67	498
Johnson, Thomas H., Pittsburg, Pa. Slide-rule	520,114	May 22	2050	501	67	963
Johnson, Ulysses G., Chicago, Ill. Water-closet seat	522,163	June 26	2510	602	67	1706
Johnson, Walter, Middletown, Conn. Lifting-jack	514,755	Feb. 13	1306	325	66	1117
Johnson, William C., et al. (See Daly, Charles A., assignor.)						
Johnson, William C., Creston, Ohio. Cultivator	512,708	Jan. 16	1623	390	66	334
Johnson, William C., assignor of one-half to H. S. Hayley and D. M. Armstrong, Memphis, Tenn. Process of and apparatus for treating cotton seed and hulls	530,533	Dec. 11	823	204	69	1382
Johnson, William E., Coon Rapids, Iowa. Sliding-door lock	527,609	Oct. 16	1531	371	69	312
Johnson, William G., Kingfisher, Okla. Ter. Wrench	512,709	Jan. 16	1626	390	66	334
Johnson, William H. H., La Due, Mo. Automatic hay-press feeder	521,657	June 19	1609	377	67	1521
Johnson, William J., Englewood, Ill. Stilt	514,600	Feb. 13	1051	263	66	1068
Johnson, William J., Newton, Mass. Tool-handle	518,106	Apr. 10	1152	289	67	226
Johnson, William L., Chicago, Ill. Garbage crematory or furnace	516,706	Mar. 20	1619	386	66	1786
Johnson, William L., and W. L. Hay, Franklin, Tenn. Air-blast attachment for thrashing-machines	522,901	July 10	1239	307	68	251
Johnson, William L., and W. L. Hay, Franklin, Tenn. Straw-conveyer	531,041	Dec. 18	1681	398	69	1551
Johnson, William P., et al. (See Libbey, Hosea W., assignor.)				399		
Johnson, William W., San Antonio, Tex. Cash-register	526,396	Sept. 25	1882	447	68	1535
Johnston, Addison B. (See Warner, Enoch, assignor.)						
Johnston, Andrew L., Richmond, Va. Bonding-joint for electric railways	523,284	July 17	1921	483	68	392
Johnston, Charles W., Philadelphia, Pa. Motor	520,316	May 22	2410	586	67	1028
Johnston, David P., Chicago, Ill. Apparatus for sorting screws and separating them from turnings	512,300	Jan. 9	944	230	66	191
Johnston, David P., Chicago, Ill. Screw-making machine	514,007	Feb. 6	51	12, 13	66	864
Johnston, David P., Chicago, Ill. Chuck	514,008	Feb. 6	52	13	66	864
Johnston, Edward A., assignor of one-half to A. H. Marshall, Batavia, N. Y. Machine for making paper boxes	514,149	Feb. 6	282	69	66	906
Johnston Harvester Company. (See Pridmore, Edward, assignor.)						
Johnston, James H., et al. (See Anderson, Lee, assignor.)						
Johnston, John. (See Seymour, Dudley S., assignor.)						
Johnston, John, Hyde Park, Mass. Vehicle	520,961	June 5	378	92	67	1266
Johnston John, Philadelphia, Pa. Cover for cooking utensils	526,712	Oct. 2	72	19	69	16
Johnston, John D., Newport, R. I. Attachment for window or door frames for securing storm-sashes or the like	516,393	Mar. 13	1085	253	66	1670
Johnston, John Q. A., Newburyport, Mass. Car-coupling	512,114	Jan. 2	645	154	66	124
Johnston, Joseph Y., and B. F. Bergh, New York, N. Y.; said Bergh assignor to said Johnston. Embossed printing-press	523,914	July 31	3032	753	68	626
Johnston, Oliver P., Butte, Mont. Mail-box	525,498	Sept. 4	299	73	68	1207
Johnston, Oliver P., and C. M. Gates, Butte, Mont. Mail-box	512,549	Jan. 9	1364	330	66	269
Johnston, Preston T., Frankfort, assignor of one-fourth to W. A. Orman, Russellville, Ala. Nut-lock	527,390	Oct. 9	1172	287	69	223
Johnston, Robert L. (See Hay and Johnston.)						
Johnston, Samuel, New York, N. Y. Rolling-mill	531,042	Dec. 18	1683	399	69	1552
Johnston, Samuel J., Leesburg, Va. Carriage or wagon jack	530,109	Dec. 4	59	16	69	1226
Johnston, Samnel J., Leesburg, Va. Combination-tool	530,419	Dec. 4	596	148	69	1324
Johnston, Thomas, Tacoma, Wash. Car-coupling	519,861	May 15	1628	396	67	870
Johnston, Thomas J., Washington, D. C. Lock	529,388	Nov. 20	1560	372	69	970
Johnston, William, Essex, Iowa. Farrowing-booth for brood-sows	513,186	Jan. 23	2423	585	66	556
Johnston, William, Allegheny, Pa. Bolt for double doors	519,687	May 8	1348	325	67	803
Johnston, William D., San Francisco, Cal. Abstracting gold and silver from their solutions in potassium cyanides	532,260	July 3	150		68	30

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Johnston, William F., Sackett's Harbor, N. Y. Door-hanger.....	528,435	Oct. 30	2979	{ 720 721 }	69	607
Johnston, William F., and J. Gray, assignors to Massey-Harris Company, Toronto, Canada. Apparatus for hardening knife-sections or other articles.....	530,183	Dec. 4	188	47	69	1248
Johnstone, James, New York, N. Y. Tool-handle.....	512,971	Jan. 16	2105	500	66	423
Joiner, Thomas H. (See Golf and Joiner.)						
Jolicard, Emile, Lyons, France. Furnace.....	523,579	July 24	2432	610	68	500
Joly, Hubert, Wittenberg, Germany. Lattice or truss girder.....	513,187	Jan. 23	2425	{ 585 586 }	66	556
Jonasson, Olof M., Uniontown, Pa. Tobacco-pipe.....	520,599	May 29	2884	698	67	1133
Joncas, Henry, assignor, by mesne assignments, of one-fourth to Gemlo Iron Works Company, Minneapolis, Minn. Lath-bolter.....	514,081	Feb. 6	167	39	66	886
Jones, Addison W., Boston, Mass. Coin-receptacle.....	515,525	Feb. 27	2559	634	66	1378
Jones, Adolphus E., Greensburg, La. Combination plow-stock.....	526,784	Oct. 2	194	46	69	37
Jones, Albert F., Salem, Mass. Apparatus for coloring skins.....	513,642	Jan. 30	3197	784	66	736
Jones, Albert W., assignor to H. Hartman, Prairie City, Mo. Box-fastener.....	526,491	Sept. 25	2057	4-9	68	1566
Jones, Alfred E. (See Somers, Joseph C., assignor.)						
Jones, Amos, assignor of one-half to A. L. Greider, Lehanon, Pa. Stair-rod.....	517,279	Mar. 27	2588	606	66	1987
Jones, Ansel B., assignor of one-half to W. P. Horton, Jr., Cleveland, Ohio. Electric-current regulator.....	512,115	Jan. 2	647	155	66	124
Jones, Arthur W., Boston, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Wire-support for overhead electric railways.....	522,216	July 3	73	16	68	15
Jones, Augustus M. (See Tilton, James B., assignor.)						
Jones, Benjamin F., Chicago, Ill. Mop-wringer.....	512,830	Jan. 16	1861	440	66	379
Jones Bros. Electric Company. (See Jones, Charles E., assignor.)						
Jones Brothers & Co. (See Scott, Dugald, assignor.)						
Jones, Budd J., Sioux City, Iowa. Trolley-wire support.....	520,737	May 29	3121	755	67	1175
Jones, Carmi V., Chillicothe, Ohio. Potato-cutting machine.....	513,510	Jan. 30	2965	{ 729 730 }	66	694
Jones, Charles B. (See Snell, Adolphus G., assignor.)						
Jones, Charles B., assignor, by mesne assignments, to New Haven Elevator Guard Company, New Haven, Conn. Elevator gate and door.....	523,639	July 24	2532	{ 635 636 }	68	519
Jones, Charles B., and J. S. Wetmore; said Wetmore assignor to W. P. Huff, Roanoke, Va. Hydraulic ram.....	529,914	Nov. 27	2458	592	69	1144
Jones, Charles E. (See Hall, Charles R., assignor.)						
Jones, Charles E., et al. (See Reed, Franklin M., assignor.)						
Jones, Charles E., assignor to Jones Bros. Electric Company, Cincinnati, Ohio. Magazine-fuse for electric circuits.....	514,554	Feb. 13	962	243	66	1052
Jones, Charles J. (See Childs and Jones.)						
Jones, Daniel, Philadelphia, Pa. Window-awning.....	523,716	July 31	2740	680	68	572
Jones, Daniel, assignor to Two-Reel Lock-Stitch Sewing Machine Company, Limited, Birmingham, England. Drilling-machine.....	529,329	Nov. 13	1439	{ 346 347 }	69	929
Jones, David, Youngstown, Ohio. Furnace.....	513,641	Jan. 30	3196	784	66	736
Jones, David, Philadelphia, Pa., and C. Test, Camden, N. J. Filter.....	524,827	Aug. 21	1474	360	68	961
Jones, David R., Jr. (See Bingham and Jones.)						
Jones, Dexter J., and W. L. Clouse, Tiffin, Ohio. Screw-cutting machine.....	521,543	June 19	1418	{ 329 330 }	67	1486
Jones, Edgar A., Sturgis, Mich. Step for bicycles.....	519,579	May 8	1166	280	67	771
Jones, Edward, New York, N. Y. Feed-water heater and circulator for boilers.....	530,420	Dec. 4	599	149	69	1325
Jones, Edward L., assignor to Crowell Clutch and Pulley Company, Westfield, N. Y. Clutch.....	520,528	May 29	2766	669	67	1110
Jones, Edward R., Baltimore, Md. Smoke and spark arrester.....	517,220	Mar. 27	2498	587	66	1970
Jones, Edward R., St. Lawrence, S. D. Corn-cultivator.....	529,915	Nov. 27	2459	592	69	1144
Jones, Edwin R., and G. Little, North Bloomfield, Ohio. Coffee-roaster.....	514,553	Feb. 13	960	243	66	1052
Jones, Erastus, et al. (See Larsen, August, assignor.)						
Jones, Florentine A., Boston, Mass. Furnace.....	522,944	Nov. 13	791	185	69	811
Jones, Frank, et al., trustees. (See Drawbaugh, Daniel, assignor.)						
Jones, Frank, assignor to himself and G. H. Jenkins, Chicago, Ill. Stove.....	523,666	July 31	2594	646	68	547
Jones, George B. (See Jones, Harvey P., and G. B.)						
Jones, George M. (See Reynolds and Jones.)						
Jones, George M., et al. (See Castle, Lewis D., assignor.)						
Jones, Harry, Richmond, Ind. Pump.....	528,436	Oct. 30	2981	721	69	607
Jones, Harry H., Lancaster, N. H. Tablet-compressing machine.....	531,536	Dec. 25	2572	616	69	1732
Jones, Harvey P., Denver, Colo. Combined rock-break and ore-granulator.....	520,317	May 22	2412	{ 586 587 }	67	1028
Jones, Harvey P., and G. B., Denver, Colo. Rock-drill.....	531,043	Dec. 18	1685	400	69	1552
Jones, Henry, Philadelphia, Pa. Apparatus for cleaning grain or other materials.....	522,421	July 3	423	108	68	84
Jones, Henry C., Orange City, Fla. Fruit-sizer.....	529,032	Nov. 13	921	219	69	834
Jones, Horace, et al. (See Weber, Theodore A., assignor.)						
Jones, Isaiah G., Vincentown, N. J. Grain-weighing machine.....	525,080	Aug. 28	1930	{ 472 473 }	68	1059
Jones, James, Jr. (See Lowe, Ernest A., assignor.)						
Jones, James D. L., Belton, Mo. Hay or stock frame.....	514,472	Feb. 13	831	{ 210 211 }	66	1027
Jones, James H., assignor to Rockford Manufacturing Company, Rockford, Ill. Wheeled plow.....	520,645	May 29	2953	715	67	1145
Jones, James H., assignor to Rockford Manufacturing Company, Rockford, Ill. Mowing-machine.....	520,646	May 29	2956	715	67	1146
Jones, John, Centerville, Iowa. Scaffold.....	524,552	Aug. 14	1015	250	68	861
Jones, John H. (See Bean, William H., assignor.)						
Jones, John M., Palmyra, N. Y. Paper-cutter.....	523,599	Nov. 6	135	33	69	671
Jones, John T., Utica, N. Y. Cop-holder for sewing-machine shuttles.....	519,428	May 8	891	215	67	723
Jones, John T., Utica, N. Y. Sewing-machine.....	519,676	May 8	1321	{ 317 318 319 }	67	799
Jones, John T., Scranton, Pa. Ale or beer condenser and cooler.....	530,309	Dec. 4	409	102	69	1289
Jones, Joseph B., Philadelphia, Pa. Propeller.....	529,916	Nov. 27	2460	593	69	1144
Jones, Joseph R., assignor of two-thirds to T. A. Jones, Philadelphia, and J. W. Jones, Harrisburg, Pa. Railway-signal.....	513,934	Jan. 30	3652	{ 900 901 }	66	824
Jones, Joseph R., assignor of two-thirds to T. A. Jones, Philadelphia, and J. W. Jones, Harrisburg, Pa. Railway-switch.....	513,935	Jan. 30	3654	901	66	824
Jones, Joshua W., et al. (See Jones, Joseph R., assignor.)						
Jones, Joshua W., New York, N. Y. Scalpel.....	520,435	May 29	2609	631	67	1082
Jones & Langhlins. (See Gever, George, assignor.)						
Jones, Leah D., New Bern, N. C. Pantaloon-protector.....	519,632	May 8	1257	302	67	787

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Jones, Lewis B. (See Koll, Benjamin S., assignor.)						
Jones, Margaret M. (See Palmar, Lansing A., assignor.)						
Jones, Nathaniel M. (See Curtis and Jones.)						
Jones, Robert P., Rochepot, Mo. Ice-cream freezer.....	530,779	Dec. 11	1244	301	69	1457
Jones, Samuel M., Toledo, Ohio. Coupling for hollow rods or pipes.....	528,167	Oct. 30	2517	609	69	524
Jones, Samuel M., Toledo, Ohio. Coupling for pipes or rods.....	528,168	Oct. 30	2517	609	69	524
Jones, Samuel O., assignor of one-half to G. H. Atwood, Stillwater, Minn. Piston-valve.....	525,462	Sept. 4	245	60	68	1196
Jones, Seth C., Rochester, N. Y. Photographic-camera shutter.....	515,230	Feb. 20	2061	{ 513 514 398 399 }	{ 66 66 }	{ 1271 1185 }
Jones, Theodore N., Greeley, Colo. Horseshoe.....	514,934	Feb. 20	1588			
Jones, Thomas. (See Rogers and Jones.)						
Jones, Thomas, Chicago, Ill. Plaster.....	518,784	Apr. 24	2338	....	67	472
Jones, Thomas A., et al. (See Jones, Joseph R., assignor.)						
Jones, Thomas W., Denver, Colo. Collar or cuff button or stud.....	524,277	Aug. 7	519	121	68	755
Jones, Walter A. (See Bell, Broomhead, and Jones.)						
Jones, Walter C. (See Buttington and Jones.)						
Jones, Wilber, et al. (See Litchford, Miles, assignor.)						
Jones, Willard, Portland, Me. Ice-creper for horses.....	513,936	Jan. 30	3655	901	66	825
Jones, William. (See Seaman, Wilson, and Jones.)						
Jones, William, Harrisburg, Pa. Paper-hanger's roller.....	525,217	Aug. 28	2165	528	68	1100
Jones, William A., et al. (See Reed, Franklin M., assignor.)						
Jones, William F., Baltimore, Md. Support for cards.....	527,694	Oct. 16	1675	403	69	339
Jones, William G., Findlay, Ohio. Machine for manufacturing clay pigeons.....	519,127	May 1	332	73, 79	67	602
Jones, William S., et al. (See Reynolds, Joseph A., assignor.)						
Jones, Willis C., Walton, N. Y. Table.....	522,593	July 10	722	185	68	157
Jones, Wyatt A. O., Rogers, Ark. Harrow.....	527,993	Oct. 23	2221	536	69	455
Jönsson, Johan L., assignor to Aktiebolaget Separator, Stockholm, Sweden. Driving mechanism for centrifugal separators.....	512,033	Jan. 2	508	{ 130 121 }	{ 66 66 }	{ 97 97 }
Jönsson, Johan L., assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal liquid-separator.....	519,085	May 1	251	59	67	584
Jönsson, Johan L., assignor to Aktiebolaget Separator, Stockholm, Sweden. Journal-bearing.....	530,274	Dec. 4	347	86	69	1279
Jopling, James, assignor to American Mining Tool Company, What Cheer, Iowa. Drilling-machine.....	513,937	Jan. 30	3656	{ 901 902 }	{ 66 66 }	{ 825 825 }
Jordan, Edmund, Brooklyn, assignor, by mesne assignments, to Pneumatic Press Company, New York, N. Y. Press.....	512,251	Jan. 2	860	208	66	102
Jordan, Edmund, Brooklyn, assignor, by mesne assignments, to Pneumatic Press Company, New York, N. Y. Press for plastic material.....	523,430	July 24	2167	{ 546 547 }	{ 68 68 }	{ 453 453 }
Jordan, Elmer C., Sacramento, Cal. Locomotive-boiler.....	524,901	Aug. 21	1586	383	68	981
Jordan, George F. (See Beeler, Charles H., Jr., assignor.)						
Jordan, Lewis W., et al. (See Riley, Alberta, assignor.)						
Jordan, Thomas F., et al. (See Bynon, William, assignor.)						
Jordan, Thomas F. (See Cummings and Jordan.)						
Jordan, William, et al. (See Riley, Alberta, assignor.)						
Jordan, William T., Augusta, Ga. Cycle-canopy and support.....	521,619	June 19	1551	362	67	1509
Jorres, Ralph W., Waterbury, assignor to Bridgeport Chain Company, Bridgeport, Conn. Machine for making sheet-metal chains.....	515,961	Mar. 6	360	{ 84 85 86 }	{ 66 66 }	{ 1520 1520 }
Joseph, Herschel V., Blue Ridge, Mo. Pantograph.....	529,917	Nov. 27	2462	593	69	1145
Joseph, Jacob, Shamokin, Pa. Extensible shade-hanger.....	517,750	Apr. 3	563	138	67	109
Josephson, Moses, Springfield, Ill. Vegetable-cutter.....	525,499	Sept. 4	300	73	68	1207
Josephy, Gustav, Bielitz, Austria-Hungary. Centrifugal air-moistening apparatus.....	522,217	July 3	74	16	68	15
Joslin, Alexander D. (See Smith, James P., assignor.)						
Joslin, Frank A., et al. (See Dixon, William H., assignor.)						
Joslin, William H., assignor of one-half to H. A. McLean, Jamaica, Vt. Polishing device for spoke-lathes.....	530,110	Dec. 4	60	16	69	1226
Jouët-Pastré, Michel A., assignor to Société pour la Fabrication des Munitions d'Artillerie, Paris, France. Apparatus for manufacturing hollow articles.....	516,056	Mar. 6	528	122	66	1550
Joveite Manufacturing Company. (See Blomén, Jonas E., assignor.)						
Jowett, James, Bradford, England. Collapsible box.....	523,038	July 17	1490	{ 370 371 }	{ 68 68 }	{ 313 313 }
Joy, Charles H. (See Hay and Kearns, assignors.)						
Joy, Frank L. and F. A., Fremont, Nebr. Folding stool.....	523,072	July 17	1535	384	68	322
Joy, Fred A. (See Joy, Frank L. and F. A.)						
Joy, Robert, assignor to T. Kingsford, Oswego, N. Y. Steam-boiler.....	520,962	June 5	380	92	67	1266
Joy, Sam S., New Market, N. H. Lifting-jack.....	526,153	Sept. 18	1445	338	68	1439
Joy, Thaddens C., Titusville, Pa. Core for casting radiator-sections.....	511,957	Jan. 2	388	90	66	74
Joy, Thaddens C., Titusville, Pa. Radiator-coupling.....	524,804	Aug. 21	1431	350	68	954
Joyce, Joseph L., South Egremont, Mass. Pruning implement.....	517,385	Mar. 27	2804	654	66	2029
Joyner, Fletcher, Schenectady, N. Y. Folding anchor.....	531,315	Dec. 25	2191	524	69	1660
Judd, Adelbert F., assignor of one-half to K. E. Knutsson, Rockford, Ill. Brace for screen-doors.....	515,340	Feb. 27	2261	560	66	1322
Judd, Edward A., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Lock.....	515,689	Feb. 27	2827	703	66	1431
Judd, Edward A., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Trunk-lock.....	515,690	Feb. 27	2828	704	66	1431
Judd, Edward A., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Trunk-lock.....	521,471	June 19	1294	301	67	1464
Judd, Edward C., et al. (See McArdle, Fred W., assignor.)						
Judd, Edward C., Boston, Mass. Sole leveling and burnishing machine.....	519,187	May 1	445	109	67	623
Judd, Edward C., Boston, Mass. Sole-leveling machine.....	530,421	Dec. 4	601	149	69	1325
Judd, Edward C., and F. W. McArdle, Boston, Mass.; said McArdle assignor to said Judd. Sole-leveling machine.....	523,285	July 17	1922	483	68	392
Judd, Fred J., assignor of one-half to W. H. Dittmar, Jersey City, N. J. Pulverizing-mill.....	522,377	July 3	346	89	68	69
Judd, Mortimer N., assignor to North & Judd Manufacturing Company, New Britain, Conn. Snap-hook.....	527,493	Oct. 16	1351	330	69	281
Judge, Francis A., Volinia, Mich. Harvester-elevator.....	513,397	Jan. 23	2763	{ 673 674 }	{ 66 66 }	{ 621 621 }
Judkins, Alvin B. (See Goff and Judkins.)						
Judson, Albert H., et al. (See McCollum, James C., assignor.)						
Judson, Charles K., et al. (See McCollum, James C., assignor.)						
Judson, George A., Racine, Wis. Sewing-machine for fringing fabrics.....	521,982	June 26	2207	{ 531 532 }	{ 67 67 }	{ 1650 1650 }
Judson, Henry P., Cambridge, Mass. Hot-air heating apparatus.....	518,250	Apr. 17	1407	352	57	290

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Judson, Roswell S., and G. D. Holmes, Matteawan, N. Y. Air-brake for street-railway cars.	530,422	Dec. 4	604	150	69	1325
Judy, George H., Fort Wayne, Ind. Machine for rolling brake-shoe key-blanks into shape.	522,717	July 10	927	232	68	194
Juengst, Charles A., Croton Falls, N. Y. Self-adjusting feed mechanism.	512,972	Jan. 16	2106	500	66	424
Juergens, Frederick A., assignor to Niagara Stamping and Tool Company, Buffalo, N. Y. Method of and machine for making sheet-metal tubes.	523,073	July 17	1537	{ 384 385 }	68	322
Juergens, Frederick A., assignor to Niagara Stamping and Tool Company, Buffalo, N. Y. Gutter-forming machine.	530,275	Dec. 4	348	86, 87	69	1279
Julesom, David C., Chicago, Ill. Washboard.	512,302	Jan. 9	946	231	66	192
Julian, Gideon, assignor of two-thirds to S. M. Fay, Boston, and C. S. Hull, Newton, Mass. Sole-rounding machine.	528,128	Oct. 23	2452	{ 592 593 }	69	497
Julius, Paul. (See Bernthsen and Julius.)						
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Soluble safranin azo naphthol.	524,251	Aug. 7	478	.....	68	749
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Dimethyl safranin azo naphthol.	524,252	Aug. 7	480	.....	68	749
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Safranin azo naphthol dye.	524,253	Aug. 7	481	.....	68	749
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Safranin azo naphthol lake.	524,254	Aug. 7	482	.....	68	749
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Azo dye.	525,656	Sept. 4	564	.....	68	1255
Julius, Paul, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Azo dye.	525,657	Sept. 4	565	.....	68	1255
Jung, Carl, Berlin, Germany. Ear-protector.	520,785	June 5	42	10	67	1205
Jungher, Ernst W., Skara, Sweden. Thermo-electric battery.	521,168	June 12	735	174	67	1323
Jungher, Ernst W., Stockholm, Sweden. Electrical fire-alarm apparatus.	525,020	Aug. 28	1814	{ 442 443 }	68	1033
Juram, William C. (See Engel and Juram.)						
Just, John A., Syracuse, N. Y. Acid-proof composition.	520,600	May 29	2886	.....	67	1133
Kabell, Leo, Chicago, Ill. Combined folding bed and table.	538,370	Oct. 30	2870	{ 694 695 }	69	587
Kabia, Leopold. (See Moore, Thomas, assignor.)						
Kaczander, Leopold, assignor to Nathan Manufacturing Company, New York, N. Y. Boiler-tester.	515,231	Feb. 20	2064	514	66	1272
Kaempen, Polhert, Jr., assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Mold for stove lids or covers.	512,195	Jan. 2	774	188	66	147
Kaempen, Polhert, Jr., assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Device for operating oven-shelves.	519,606	May 8	1306	291	67	778
Kaestner, Ernest A., Baltimore, Md. Milk-can.	527,245	Oct. 9	925	223	69	187
Kahn & Bros., F. & L. (See Birt, John S., assignor.)						
Kahn & Bros., F. & L. (See Kahn and Moore, assignors.)						
Kahn, John, Los Angeles, Cal. Display-case.	511,894	Jan. 2	286	66	66	56
Kahn, Lazard, and H. V. Moore, assignors to F. & L. Kahn & Bros., Hamilton, Ohio. Mold for stove ash-pits.	526,904	Oct. 2	396	99	69	74
Kahn, Ludwig, Hamburg, Germany. Apparatus for registering telephone-calls.	513,364	Jan. 23	2710	658	66	611
Kahne, Charles C. and G. F. and A. A. Adkins, Ashland, Ky. Railway-signal.	517,751	Apr. 3	565	138	67	110
Kahne, Charles C., A. A. Adkins, W. S. Peirce, J. E. Martin, and G. F. Kahne, Ashland, Ky. Electric leak-alarm.	528,881	Nov. 6	658	158	69	776
Kahne, George F. (See Kahne and Adkins.)						
Kahne, George F. (See Kahne, Adkins, Peirce, Martin, and Kahne.)						
Kailor, John N. (See Reeves and Kailor.)						
Kailor, John N. and M. T. Reeves, assignors to Reeves & Co., Columbus, Ind. Clover-huller feeder.	514,193	Feb. 6	362	87	66	922
Kaime, George S., and O. Stenerson, Necedah, Wis. Log-rolling hook.	524,595	Aug. 14	1073	265	68	875
Kaiser, Andrew, Columbus, Ohio. Stovepipe.	522,599	July 10	734	185	68	157
Kaiser, Gustav, Trossinger, Germany. Mouth-harmonica.	516,096	Mar. 6	583	136	66	1561
Kaiserstein, Helfried B., Vienna, Austria-Hungary. Preparing food for horses.	520,682	May 29	3032	.....	67	1159
Kalamazoo Casket Company. (See Springstead and Lawler, assignors.)						
Kalamazoo Cycle Company. (See Blood, Maurice E., assignor.)						
Kaldrider, William H., Heaters, assignor of two-thirds to A. M. Lane, R. S. Waterman, T. G. Edmiston, and F. E. Waterman, Weston, W. Va. Sliding-door lock.	526,232	Sept. 18	1582	372	68	1464
Kales, John W., Franklinville, N. Y. Can-filling machine.	520,683	May 29	3033	{ 734 735 }	67	1159
Kalkner, Friedrich, Hildesheim, Germany. Skate.	518,251	Apr. 17	1408	352	67	290
Kallab, Ferdinand V., assignor to Firm of K. Oehler, Offenbach, Germany. Dyeing anilin-black.	529,498	Nov. 20	1771	.....	69	1007
Kallab, Ferdinand V., assignor to Firm of K. Oehler, Offenbach, Germany. Producing figures on anilin-black.	529,499	Nov. 20	1772	.....	69	1007
Kallajian, Lazarus S., Boston, Mass. Support for bicycle-seat posts.	512,379	Jan. 9	1074	262	66	215
Kallauner, John, Topeka, Kans. Snow-plow for railways.	523,208	July 17	1793	450	68	368
Kalling, Lewis, Baltimore, Md. Bottle-stopper.	523,474	July 24	2262	569	68	468
Kalling, Lewis, Baltimore, Md. Bottle-stopper.	523,475	July 24	2263	569	68	468
Kallsen, Frederick, assignor to Wolf, Sayer & Heller, Chicago, Ill. Latch.	526,811	Oct. 2	232	56	69	44
Kaltouik, Stephen, Punxsutawney, Pa. Drive-gear mechanism for bicycles, &c.	528,437	Oct. 30	2982	721	69	607
Kaltwasser, Georg C. H., Oderfeld, near Barbis, Germany. Rocking-chair.	529,273	Nov. 13	1347	322	69	910
Kaumann, August B. (See Myhre, Chris, assignor.)						
Kammerer, Franz E. (See Haberthorn, Robert, assignor.)						
Kammerer, Frank G., Chicago, Ill. Bottle or vessel holding device.	527,334	Oct. 9	1076	260	69	214
Kamp, George, Trenton, assignor of one-half to T. B. Milla, New York, N. Y. Landing-net frame.	520,567	May 29	2832	683	67	1123
Kampf, August, Magdeburg, assignor to Grusonwerk, Magdeburg-Buckau, Germany. Controlling-valve for hydraulic pressure.	518,149	Apr. 10	1214	{ 304 305 }	67	236
Kampf, Joseph, assignor of one-half to G. C. Dressel & Co., New York, N. Y. Lamp-burner.	524,682	Aug. 14	1219	297	68	902
Kampfe, Frederick, R., and O., Brooklyn, N. Y. Machine for grooving razor-strops.	520,851	June 5	177	38, 39	67	1229
Kampfe, Frederick, R., and O., Brooklyn, N. Y. Razor-strop.	524,828	Aug. 21	1476	360	68	962
Kampfe, Otto. (See Kampfe, Frederick, R., and O.)						
Kampfe, Richard. (See Kampfe, Frederick, R., and O.)						
Kamphaus, Peter, Wald, Germany. Scissors or shears.	514,082	Feb. 6	169	39	66	886
Kamps, Berend, Zealand, Mich. Hydrocarbon-burner.	527,695	Oct. 16	1677	404	69	339
Kane, J. L., et al. (See Elliott, James W., assignor.)						
Kane, James H., Kansas City, Mo. Artificial foot.	515,691	Feb. 27	2829	704	66	1431
Kane, John. (See Graham and Kane.)						
Kane, Maurice, Austin, Ill., assignor to Warder, Bushnell & Glessner Company, Springfield, Ohio, and Chicago, Ill. Harvester-elevator. (Reissue.)	11,447	Oct. 16	1781	429	69	359

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Kane, Thomas. (See Carse, John B., assignor.)						
Kane, Thomas J. (See Biedinger and Kane.)						
Kann, William L., Allegheny, Pa. Grinding and polishing material	511,779	Jan. 2	58	.....	66	14
Kanne, Frederick F., Waterville, Minn. Grain-meter	525,764	Sept. 11	767	178	68	1304
Kanne, Frederick F., Waterville, Minn. Grain-meter	525,765	Sept. 11	771	178 179	68	1305
Kanneberg, Alvin C., Canton, Ohio. Eaves-trough	531,044	Dec. 18	1668	400	69	1553
Kanouse, John B. (See McKenzie, George A., assignor.)						
Kansas City Hay Press Company. (See Wilder, Norman B., assignor.)						
Kaplan, Hirsh, Baltimore, Md. Coffee-flask	511,780	Jan. 2	59	15	66	14
Kappele, Henry, Matteawan, N. Y. Door-fastener	515,494	Feb. 27	2506	620	66	1367
Karfiol, Benzion, Brooklyn, N. Y., assignor to American Lace and Fancy Paper Works, of New York. Paper cutting and embossing press	528,542	Nov. 6	32	9	69	652
Karger, Adolf, Aleisthal, Austria-Hungary. Machine for grinding pulp	525,846	Sept. 11	932	208 209	68	1333
Karnbach, Albert, Barby, Germany. Folding frame for hammocks	519,286	May 1	623	151	67	657
Karnes, Matilda T. (See Cowell, Edward R. E., assignor.)						
Karp, Harris, Norwalk, Ohio. Bedstead	517,280	Mar. 27	2589	607	66	1987
Karrer, John. (See Patton, George M., assignor.)						
Karschner, Elmer, Williamsport, Pa. Scale-measure	526,448	Sept. 25	1993	475	68	1555
Karsell, James, et al. (See Phillips, Thomas E., assignor.)						
Kasper, Christian, Cleveland, Ohio. Ash-sifter	520,886	June 5	244	57	67	1241
Kasson, Walter F., Boise City, Idaho. Type-writing machine	529,274	Nov. 13	1348	322	69	910
Kast, Miller I., et al. (See Clay, William S., assignor.)						
Kaster, James W., assignor of one-half to J. F. Chadwick, Hurdland, Mo. Hen's nest	523,792	July 31	2818	700	68	587
Kastholm, Emil L. (See Thomlinson and Kastholm.)						
Kastler, Emile, Philadelphia, Pa. Mechanism for regulating the movement of cloth-rollers of looms	527,750	Oct. 16	1764	425	69	355
Kastor, Lucien, Paris, France. Billiard-table	515,149	Feb. 20	1926	483	66	1247
Katani, Sannosuke, Belmont, Cal. Combined liner and measure	527,335	Oct. 9	1078	260	69	214
Kates, Samuel F., Salem, N. J. Apparatus for dispensing root-beer, &c.	528,543	Nov. 6	35	9	69	653
Kathmann, Anton. (See Otten and Kathmann.)						
Kathreiner's Malzkaffee Fabriken mit Beschraenkter Haftung. (See Trillich, Heinrich, assignor.)						
Kato, George P., Jr., Jersey City, N. J. Box or package	529,033	Nov. 13	922	219	69	834
Katz, Jacob, et al. (See Meehn, John N., assignor.)						
Katzbach, John, et al. (See Bosman, Nicolas, assignor.)						
Katzky, Abram, Moscow, Russia. Fare-recorder	513,462	Jan. 23	2877	707 708	66	643
Kaucher, Frank, St. Joseph, Mo. Grain-elevator	528,230	Oct. 30	2630	634 635	69	544
Kaud Sanitarium. (See Wheeler, Fred A., assignor.)						
Kauffman, Adolf F. (See Wittich, George, assignor.)						
Kauffman, Isaac B., Marble Hill, Mo. Trunk	527,336	Oct. 9	1079	260 261	69	214
Kauffman, William J., Miamisburg, Ohio. Carriage-pole coupling	525,218	Aug. 28	2166	529	68	1100
Kauffman, William J., Miamisburg, Ohio. Buggy-boot	526,233	Sept. 18	1584	372	68	1464
Kauffmann, Joseph, Hanover, Germany. Apparatus for forming sheds in looms electrically	515,775	Mar. 6	81	19	66	1468
Kauffman, Adolph, et al. (See Dening, Edward, assignor.)						
Kaufmann & Bro., Isaac. (See Koll, Gustav, assignor.)						
Kaufmann, Israel H., and M. Nimeroff, New York, N. Y. Clamp for ironing-tables	531,316	Dec. 25	2193	525	69	1660
Kaul, Carl F., Madison, Nebr. Brick-kiln	524,442	Aug. 14	830	203	68	831
Kaul, Carl F., Madison, Nebr. Draft-regulator	526,492	Sept. 25	2058	429 490	68	1567
Kay, Allan B., New York, N. Y. Piston-rod packing	530,423	Dec. 4	605	150	69	1326
Kay, Edward, assignor to Beswick & Kay, Philadelphia, Pa. Rub-motion mechanism for condenser carding-machines	523,640	July 24	2533	636	68	520
Kay, George, F. Wilkinson, and I. Rnshworth, Jamestown, N. Y. Roundabout	512,710	Jan. 16	1627	390 391	65	334
Kay, Hugh M. (See Casey, Kay, and Stringer.)						
Kay, James L., et al. (See Barr, John U., Jr., assignor.)						
Kay, William G., Brooklyn, assignor of one-half to H. S. Stevens, Cleveland, Ohio. Nut-lock	518,066	Apr. 10	1088	274 337 338	67	215
Kaye, Edward, Monaca, Pa. Incandescent electric lamp	530,895	Dec. 11	1421	337 338	69	1489
Kayler, Ray S., et al. (See Blaine, George E., assignor.)						
Kaysan, Henry A., Brooklyn, N. Y. Surgical ligature-holder	517,574	Apr. 3	260	60	67	51
Kayser, Albert, Oakland, Cal. Apparatus for trimming stereotype-blocks	513,330	Jan. 23	2054	643	66	601
Kayser, Albert, Mittelbexbach, Germany. Roofing-tile	523,353	July 24	2043	513	68	431
Kayser, Hermann F. M., Leipsic, Germany. Centrifugal separator	527,860	Oct. 23	1962	471 472	69	407
Kayser, Julius. (See Lindner, Arthur E., assignor.)						
Keagy, David B. (See Ellis, Wyatt O., assignor.)						
Kean & Doty Manufacturing Company. (See Burmeister, Frederick, assignor.)						
Keane, William M., assignor of three-fourths to J. Curl and A. Baebi, Newark, N. J. Coin-controlled game apparatus	521,932	June 26	2102	504	67	1631
Kearns, Bernard T. (See Hayden, Henry A., assignor.)						
Kearns, William M. (See Hay and Kearns.)						
Keasbey, Henry G., Ambler, Pa. Feed-water heater	525,551	Sept. 4	393	95	68	1324
Keasbey, Henry G., Ambler, Pa. Feed-water heater	525,552	Sept. 4	385	96	68	1324
Keasbey, Henry G., Ambler, Pa. Steam-boiler	525,553	Sept. 4	396	96	68	1325
Keating, Arthur E. (See Delbears and Keating.)						
Keating, Edward, Terre Haute, Ind. Span or arch	530,424	Dec. 4	606	150	69	1326
Keating, Edward, Terre Haute, Ind. Girder for truss-bridges	530,425	Dec. 4	607	151	69	1326
Keating, Henry S., London, England. Hydrometer	524,944	Aug. 21	1666	408	68	994
Keating, Robert M., Springfield, Mass. Tire for wheels	525,081	Aug. 28	1932	473	68	1059
Keays, Arthur M. (See Tunnard and Keays.)						
Rebabian, Hrant K., Philadelphia, Pa. Wheel-cutting fixture for watchmakers' lathes	512,550	Jan. 9	1366	330	66	270
Kee, Frank T., New York, N. Y. Footwear	526,234	Sept. 18	1555	372	68	1465
Keegan, Martin, Sr. (See Collins and Keegan.)						
Keehn, Maximilian, New York, N. Y. Screw-driver	527,696	Oct. 16	1678	404	69	340
Keeler, Bronson C., St. Louis, Mo. Means for counterbalancing elevators	514,009	Feb. 6	54	13	66	865
Keeler, David L., Grand Rapids, Mich. Mixer for pug-mills	513,018	Jan. 16	2176	518	66	437
Keeler, David L., Grand Rapids, Mich. Household fire-extinguishing apparatus	531,591	Dec. 25	2667	640	69	1752
Keeling, Richard, Walhalla, N. D. Rattle-rake	517,865	Apr. 10	733	184	67	156

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Keely, Thomas, Memphis, Tenn. Shield	523,209	July 17	1795	{ 450 451 }	68	368
Keen, Arthur W. M., Montreal, Canada. Belt-fastener	514,998	Feb. 20	1682	422	66	1203
Keen, George W., Hackensack, N. J. Elevated carrier	517,343	Mar. 27	2699	634	66	2009
Keenan, William P., Chicago, Ill. Spring-hinge	515,433	Feb. 27	2420	599	66	1352
Keene, Albert A., Philadelphia, Pa. Thermometer	521,374	June 12	1112	262	67	1414
Keene, Trevor, Birkenhead, England. Packing for piston-rods	530,426	Dec. 4	608	151	69	1326
Keeney, James J., <i>et al.</i> (See Winslow, Marlon H., assignor.)						
Keep, William J., assignor to Michigan Stove Company, Detroit, Mich. Stove	527,751	Oct. 16	1765	425	69	355
Keep, William J., Detroit, Mich., assignor to Michigan Stove Company, of Michigan. Stove	523,945	Nov. 13	792	185	69	811
Keepers, William F., Philadelphia, Pa. Measuring-vessel	524,206	Aug. 7	410	97	68	736
Kees, Frederick, assignor of one-half to F. B. Long, Minneapolis, Minn. Corner-strip	529,500	Nov. 20	1774	423	69	1007
Keeson, Herbert V., London, England. Circuit-closer	530,184	Dec. 4	191	47	69	1219
Keeton, Andrew J., <i>et al.</i> (See Page, Charles W. and O. P., assignors.)						
Kegler, Daniel, Mannheim, Germany. Gas fire-engine	524,111	Aug. 7	241	56	68	706
Kehlenbeck, Selma, Pleasant, Ind. Baby-carrier	532,018	June 26	2269	544	67	1660
Kehr, Cyrus, Lakeside, Ill. Wheel-tire	517,416	Mar. 27	2857	669	66	2040
Kehr, Cyrus, Lakeside, Ill. Tire	517,417	Mar. 27	2858	669	66	2040
Keifel, Frederick W., Jr. (See Scanlan, Keifel, and Zipp.)	517,418	Mar. 27	2859	669	66	2040
Keil, Alexander. (See Jacobs, Keil, and Roemer.)						
Keil, Francis, New York, N. Y. Spring-hinge	522,732	July 10	967	241	68	200
Keil, Henry F., New York, N. Y. Electric door-opener	522,733	July 10	968	{ 241 242 }	68	200
Keiler, John W. (See Friedman and Keiler.)						
Keils, John, assignor of one-half to W. E. Howarth, Detroit, Mich. Oil-stove	514,555	Feb. 13	964	243	66	1052
Keily, Arthur F., Macon, Ga. Balanced slide-valve	513,938	Jan. 30	3659	902	66	825
Keiner, Carl, Vienna, Austria-Hungary. Car-brake	523,039	July 17	1491	371	68	313
Keiner, Harvey I., Wilkes-Barré, Pa. Automatic funnel	530,228	Dec. 4	271	67	69	1264
Keiper, Henry B., Lancaster, Pa. Screw-cutting plate	530,846	Dec. 11	1342	321	69	1475
Keiser, Henry B. A., Braddock, Pa. Apparatus for ejecting core-barrels	512,973	Jan. 16	2107	{ 500 501 502 }	66	424
Keiser, Henry B. A., Braddock, Pa. Founding	514,473	Feb. 13	833	{ 211 212 }	66	1027
Keith, Alexander, Everett, J. P. Tirrell, Boston, Mass., and J. W. Willard, Pittsford, Vt., assignors to said Willard. Coin-controlled vending-machine	519,385	May 8	818	{ 199 200 201 }	67	710
Keith, Ethan B., Galesburg, assignor of one-half to W. R. Ritter, Dowagiac, Mich. Hay-loader	520,059	May 22	1951	{ 477 478 }	67	944
Keith, Ethan B., Galesburg, assignor of one-half to W. R. Ritter, Dowagiac, Mich. Hay-cocker	523,707	July 31	2609	662	68	559
Keith, Hanford C. (See Hebard, Charles E., assignor.)						
Keith, Jeremiah, Middleborough, Mass., assignor to I. F. Peck, Providence, R. I. Machine for setting lacing-hooks	517,828	Apr. 3	679	169	67	132
Keith, John G., Chicago, Ill. Wheel	531,618	Dec. 25	2713	650	69	1761
Keith, John M. (See Stevenson, David J., assignor.)						
Keith, Nathaniel S., San Francisco, Cal. Governor for electric and other motors	517,866	Apr. 10	734	185	67	156
Keith, Wilfred A. (See Rauch and Keith.)						
Keithley Herbert R., Chicago, Ill. Rail-bond connector for electric railways	512,711	Jan. 16	1628	391	66	333
Keithly, Willie C., assignor of one-half to J. Gordon and H. F. Dugan, San Francisco, Cal. Conduit electric railway	517,549	Apr. 3	218	50	67	43
Keller, Albert K., New York, N. Y., assignor, by mesne assignments, to Automatic Phonograph Exhibition Company of New York. Attachment for operating phonographs	518,190	Apr. 10	1225	{ 325 326 }	67	250
Keller, Albert K., New York, N. Y., assignor, by mesne assignments, to Automatic Phonograph Exhibition Company of New York. Machine for operating phonographs	518,191	Apr. 10	1298	{ 326 327 }	67	254
Keller, Albert K., New York, N. Y., assignor, by mesne assignments, to Automatic Phonograph Exhibition Company of New York. Machine or attachment for operating phonographs	518,192	Apr. 10	1304	{ 327 328 }	67	255
Keller, Charles F., Danville, Cal. Can-opener	528,371	Oct. 30	2871	695	69	588
Keller, Christian M., Columbus, Ind. Filter	531,464	Dec. 25	2460	586	69	1711
Keller, Corinne, <i>et al.</i> (See Keller, Jacob, assignor.)						
Keller, Edmund, Charlottenburg, Germany. Clip for letters, accounts, &c.	518,252	Apr. 17	1409	353	67	290
Keller, Emil E., Chicago, Ill. Hand regulator or switch for motors	519,715	May 15	1393	336	67	826
Keller, Emil E., Chicago, Ill. Electrically-propelled perambulator	523,354	July 24	2043	513	68	431
Keller, G. F. (See Keller, Jefferson, assignor.)						
Keller, Gottlieb, West Hoboken, N. J. Gas-grate	526,973	Oct. 2	497	122	69	93
Keller, Hallie J., <i>et al.</i> (See Keller, Jacob, assignor.)						
Keller, Henry H., assignor to Ross-Keller Brick Machine Company, St. Louis, Mo. Method of and apparatus for forming bricks	514,421	Feb. 6	733	{ 186 187 }	66	992
Keller, Hermann, Buffalo, N. Y. Mop-wringer	526,449	Sept. 25	1994	475	68	1556
Keller, Hermann A., <i>et al.</i> (See Cole, William G., assignor.)						
Keller, Jacob, Basle, Switzerland. Hydraulic brake mechanism	520,001	May 15	1852	453	67	910
Keller, Jacob, assignor to H. J. and C. Keller and L. K. Heisley, Cleveland, Ohio. Furnace ash-sifter	529,389	Nov. 20	1562	372	69	971
Keller, James D., Detroit, Mich. Toe-weight	518,998	May 1	98	24	67	554
Keller, Jefferson, assignor of one-half to G. F. Keller, Frederick, Md. Swinging couch	518,547	Apr. 17	1922	475	67	382
Keller, Moses A., Batavia, N. Y. Automatic shell-ejector for breakdown guns	513,511	Jan. 30	2968	730	66	694
Keller, Moses A., Batavia, N. Y. Cord-knotter for harvesting-machines	525,463	Sept. 4	247	60, 61	68	1196
Keller, Moses A., Batavia, N. Y. Bundle-carrier for harvesters	525,685	Sept. 4	616	146	68	1264
Keller, Paul A. (See Nickerson and Keller.)						
Keller, Peter, Chicago, Ill. Carburetor	528,882	Nov. 6	658	158	69	767
Keller, Peter, Chicago, Ill. Gas-burner	528,883	Nov. 6	660	158	69	767
Keller, Thomas C., assignor of one-half to F. N. Johnson, Dixon, Ill. Eaves-trough	520,993	June 5	433	104	67	1275
Kellert, William F., Chicago, Ill. Plane-iron	526,154	Sept. 18	1447	338	68	1439
Kelley, Caleb J., Terre Haute, Ind. Piston-rod packing	512,551	Jan. 9	1369	331	66	270
Kelley, Charles A., Oakdale, Cal. Deep-well pump	515,475	Feb. 27	2420	613	66	1362
Kelley, Charles H., Revere, Mass. Lasting-machine	529,390	Nov. 20	1563	373	69	971
Kelley, Charles H., Revere, Mass. Lasting-machine	529,653	Nov. 20	2017	{ 483 484 }	69	1053
Kelley, Edward W., Lowell, Mass. Car-coupling	513,019	Jan. 16	2177	519	66	437
Kelley, Edward W., Lowell, Mass. Car-coupling	520,601	May 29	2287	698	67	1133
Kelley, George B., assignor to Rockford Silver Plate Company, Rockford, Ill. Knife-grinding machine	526,656	Sept. 25	2314	{ 553 554 }	68	1615
Kelley, George W., Muskegon, Mich. Carpet stretcher and tacker	514,474	Feb. 13	834	{ 212 213 }	66	1028

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Kelley, Harry H., Elyria, Ohio. Governor and reversing-gear for engines.....	523,210	July 17	1796	451	68	368
Kelley, Harry H., Elyria, Ohio. Boiler.....	526,575	Sept. 25	2178	520	68	1589
Kelley, Harry H., Elyria, Ohio. Boiler.....	527,337	Oct. 9	1081	261	69	215
Kelley, Henry C., Chicago, Ill. Station for pneumatic-tube systems.....	513,236	Jan. 23	2504	604	66	572
Kelley, James H. (See Rose and Kelley.)						
Kelley, John E., <i>et al.</i> (See Shorey, Reuben A. and G. E., assignors.)						
Kelley, John T., <i>et al.</i> (See Widrig, Charles, assignor.)						
Kelley, Thomas J., Tolosa, assignor of one-half to V. L. Grable, Prairieville, Tex. Plow.....	526,235	Sept. 18	1586	372	68	1465
Kellgrén, Carl, assignor to Söther Maschinenfabrik, vormals H. Hammerschmidt, Sürth, near Cologne, Germany. Cooling apparatus.....	516,206	Mar. 13	774	181	66	1613
Kellner, Carl, Vienna, Austria-Hungary. Apparatus for making bleaching-powder.....	530,996	Dec. 18	1600	380	69	1536
Kellner, Eugene, assignor of one-half to F. W. Fort, Waco, Tex. Perforating mechanism for cylinder printing-presses.....	518,505	Apr. 17	1854	460	67	371
Kellogg, Benjamin, Peoria, Ill. Type-bar hanger for type-writing machines.....	516,817	Mar. 20	1796	425	66	1818
Kellogg, Charles E., West Hartford, assignor to Hartford Sanitary Manufacturing Company, Hartford, Conn. Cuspidor-holder.....	518,107	Apr. 10	1153	289	67	227
Kellogg, Charles M., Chetek, Wis. Vehicle-seat.....	513,939	Jan. 30	3060	902	66	825
Kellogg, Dau W., Auburn, N. Y. Reversible eccentric for engines. (Reissue).....	11,419	May 15	1896	463	67	918
Kellogg, Isaac N., Nashville, Mich. Attachment for molding-machines.....	516,394	Mar. 13	1086	258	66	1670
Kellogg, John H., Battle Creek, Mich. Testing-machine.....	528,779	Nov. 6	455	112	69	729
Kellogg, Jonathan D., Northampton, Mass. Hook.....	517,231	Mar. 27	2499	588	66	1970
Kellogg, Luke L., Leon, N. Y. Wagon-jack.....	516,057	Mar. 6	530	123	66	1551
Kellogg, William M., assignor to L. P. Wood and C. E. Gray, St. Johnsbury, Vt. Vaporizer.....	514,422	Feb. 6	735	187	66	992
Kells, Edward, assignor to Dangler Stove and Manufacturing Company, Cleveland, Ohio. Vapor-burner.....	523,641	July 24	2536	636	68	520
Kelly, Edward, Lebanon, Ky. Druggist's weighing-scale.....	517,698	Apr. 3	475	114	67	91
Kelly, George B., Boston, Mass. Perforating-machine.....	517,752	Apr. 3	566	138 139	67	110
Kelly, George B., Boston, Mass. Mechanical musical instrument.....	517,805	Apr. 3	648	162 163	67	126
Kelly, Isaac V., Huntington, V. Va. Grain-door.....	522,019	June 26	2270	544	67	1660
Kelly, Isaac V., Huntington, V. Va. Car-door.....	523,211	July 17	1798	451	68	369
Kelly, James, San Francisco, Cal. Wine-press.....	512,616	Jan. 9	1464	353	66	288
Kelly, James F. (See Ryan, Michael J., assignor.)						
Kelly, James P., Louisville, Ky. Ax.....	520,738	May 29	3122	756	67	1175
Kelly, James R., Sarversville, Pa. Combined planter and fertilizer-distributor.....	513,940	Jan. 30	3661	904	66	825
Kelly, John, Chicago, Ill. Valve mechanism.....	522,324	July 3	254	67, 68	68	51
Kelly, John F. (See Stanley and Kelly.) (Reissue.)						
Kelly, John F. (See Stanley, Kelly, and Chesney.)						
Kelly, John F., assignor to Stanley Laboratory Company, Pittsfield, Mass. Alternating-current motor.....	515,962	Mar. 6	364	86	66	1521
Kelly, John F., assignor to Stanley Laboratory Company, Pittsfield, Mass. Means for reducing the apparent energy supplied to alternating-current magnets.....	518,739	Apr. 24	2272	564	67	459
Kelly, John F., assignor to Stanley Laboratory Company, Pittsfield, Mass. Alternating-current dynamo.....	518,740	Apr. 24	2273	564	67	459
Kelly, John F., assignor to Stanley Laboratory Company, Pittsfield, Mass. Alternating-current motor.....	522,344	July 3	290	76	68	58
Kelly, John F., assignor to Stanley Laboratory Company, Pittsfield, Mass. Producing continuous motion by alternating currents.....	522,345	July 3	291	76	68	58
Kelly, John F., assignor to Stanley Laboratory Company, Pittsfield, Mass. Method of and apparatus for transforming alternating into continuous currents.....	522,988	July 17	1401	350	68	296
Kelly, John F., assignor to Stanley Laboratory Company, Pittsfield, Mass. Alternating-current generator.....	529,918	Nov. 27	2463	593	69	1145
Kelly, John F., and C. C. Chesney, assignors to Stanley Laboratory Company, Pittsfield, Mass. Apparatus for neutralizing the effects of self-induction in alternating-current circuits.....	518,738	Apr. 24	2271	564	67	458
Kelly, John M., Rochester, N. Y. Safety device for electric cars.....	528,438	Oct. 30	2984	721	69	607
Kelly, John P., Saco, Me. Device for plumbing top-rail spinning-spindles.....	519,716	May 15	1395	336	67	826
Kelly, John T., <i>et al.</i> (See Castle, Lewis D., assignor.)						
Kelly, Louise, Rosebank, N. Y. Washing-machine.....	517,699	Apr. 3	478	114	67	92
Kelly, Mark P., and C. Holloway, Healdsburg, Cal. Brush-cutting machine.....	515,866	Mar. 6	213	50	66	1493
Kelly, Oliver S. (See Graham and Allen, assignors.)						
Kelly, Oliver S. (See Linn, John B., assignor.)						
Kelly, Thomas J., Los Angeles, Cal. Automatic dumping-gear for wheeled scrapers.....	529,501	Nov. 20	1774	423	69	1007
Kelly, William E., New Brunswick, N. J. Steam-generator.....	523,793	July 31	2819	700	68	587
Kelly, William J., Boston, Mass. Gas and electric coupling.....	513,112	Jan. 23	2311	557	66	533
Kelly, William J., Boston, Mass. Electric-light fixture for music-stands.....	513,113	Jan. 23	2313	557	66	534
Kelouge, Edward C. (See Harmon and Kelouge.)						
Kelsch, Raymond S., Chicago, Ill. Electric switch.....	527,177	Oct. 9	814	198	69	166
Kelsey, Edgar, South Lancaster, Mass. Copy-holder.....	514,194	Feb. 6	364	87	66	922
Kelsey, Frank N., assignor of one-half to C. L. Wright, New Haven, Conn. Trolley-stand.....	529,552	Nov. 20	1867	444	69	1024
Kelsey, George, Little Falls, N. Y. Cooking device.....	519,580	May 8	1167	281	67	772
Kelsey, John P., Freeport, Me. Metallic binder.....	522,734	July 10	969	242	68	200
Kelso, James P., Jackson, Ind. Wind or current operated wheel.....	512,712	Jan. 16	1630	391	66	335
Kelso, Robert, Philadelphia, Pa. Flexible cord.....	527,795	Oct. 23	1847	444	69	388
Kéméndy, Jenő v., Munich, Germany. Elastic tire.....	513,643	Jan. 30	3200	784	66	737
Kemmer, Jacob, <i>et al.</i> (See Howell, John L., assignor.)						
Kemnitz, Emil, Memphis, Tenn. Street or railway car fender or guard.....	524,207	Aug. 7	412	98	68	736
Kemp, Edgar B. (See Fenley, Frank, assignor.)						
Kemp, Samuel E. (See Carter, Richard B., assignor.)						
Kemp, Solomon M., assignor of one-half to W. T. Henderson, Baltimore, Md. Gas-burner.....	513,790	Jan. 30	3433	847	66	779
Kemper, E. G. (See Harris, James L., assignor.)						
Kemper, Edward J., Hermann, Mo. Cleaning attachment for grain-drills.....	523,212	July 17	1800	452	68	369
Kempshall, Eleazer, assignor to E. M. Millard, Brooklyn, N. Y. Hose-mender.....	512,252	Jan. 2	863	208	66	163
Kempsmith, Frank, Milwaukee, Wis. Universal head for milling-machines.....	525,050	Aug. 28	1880	460	68	1050
Kempster, Daniel E., assignor of one-half to H. R. Thompson and E. S. Beach, Boston, Mass. Bottle, &c.....	528,544	Nov. 6	36	9	69	653
Kendall, Edward D., Brooklyn, N. Y. Treating gold or silver ores.....	524,690	Aug. 14	1231	.....	68	904
Kendall, Elton P., Fairlee, assignor to G. A. Dickey, Bradford, Vt. Nut-lock.....	523,531	July 24	2362	593	68	487
Kendall, James H., Cambridge, Mass. Steam-generator.....	529,391	Nov. 20	1571	373	69	972
Kendall, James N., Nashua, N. H. Gore-cutting machine.....	524,501	Aug. 14	921	227 228	68	847
Kendall, John A., Maysville, Mo. Steam-cooker.....	515,880	Mar. 6	230	54	66	1496

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Kendig, Andrew, assignor to himself and J. W. Kendig, Texarkana, Tex. Support for cutter-heads.....	530,427	Dec. 4	609	152	69	1327
Kendig, John W. (See Kendig, Andrew, assignor.)						
Kendrick, Greene, assignor to J. Kendrick, Waterbury, Conn. Drese-stay pocket.....	511,958	Jan. 2	390	91	66	74
Kendrick, Hiland H., Fulton, N. Y. Sanitary closet.....	525,346	Sept. 4	38	10	68	1158
Kendrick, John. (See Kendrick, Greene, assignor.)						
Kendt, William F., assignor of two-thirds to G. M. Mitchell and R. McLeod, Buffalo, N. Y. Trolley-catcher.....	530,276	Dec. 4	350	87	69	1279
Kenevel, Jeannot W., Chicago, Ill. Gas-making apparatus.....	523,325	July 3	256	68	68	51
Kenevel, Jeannot W., Chicago, Ill. Gas-making apparatus.....	523,326	July 3	258	68	68	52
Kenison, John B., and M. F. Burk, Lynn, Mass. Staging-bracket.....	528,169	Oct. 30	2518	610	69	524
Kennedy, Edward S. T., New York, N. Y. Radial-tube steam-boiler.....	520,684	May 29	3035	735	67	1160
Kennedy, Frank M., assignor of two-thirds to C. Cusac, Cygnet, Ohio, and J. W. Stone, Brooklyn, N. Y. Polished-rod adjuster.....	531,264	Dec. 18	2090	501	69	1625
Kennedy, Franklin K., assignor to Brighton Sign Company, Limited, New Brighton, Pa. Manufacture of sign-letters.....	512,713	Jan. 16	1631	392	66	335
Kennedy, Henry C., and G. W. Roletter, Philadelphia, Pa. Street-car fender.....	529,275	Nov. 13	1349	323	69	910
Kennedy, John, Paterson, N. J. Swivel-loom.....	512,474	Jan. 9	1255	302	66	249
Kennedy, John S., Chambersburg, Pa. Apparatus for breaking pig-iron.....	520,685	May 29	3037	735	67	1160
Kennedy, John T., Paterson, N. J. Swivel-loom.....	512,475	Jan. 9	1258	303	66	249
Kennedy, John W. (See Lichty and Kennedy.)						
Kennedy, Patrick. (See Biddle and Kennedy.)						
Kennedy, Richard G., et al. (See McCall, Harry M., assignor.)						
Kennedy, Richard G., Pittsburgh, Pa. Harness.....	527,994	Oct. 23	2223	536	69	455
Kennedy, S. J., et al. (See Armistead, Fabian H., assignor.)						
Kennedy, Samuel V., St. Paul, Minn. Mowing-machine.....	529,448	Nov. 20	1679	{ 401 402 }	69	991
Kennedy, Samuel V., St. Paul, Minn. Lubricating device.....	530,590	Dec. 11	924	{ 226 227 }	69	1400
Kennedy, Thomas, New York, N. Y. Platform railway.....	514,756	Feb. 13	1307	325	66	1117
Kennel, Emil P., et al. (See Salzmann, Christian A., assignor.)						
Kennelly, Arthur E., Orange, assignor to T. A. Edison, Llewellyn Park, N. J. Electrical indicator.....	517,163	Mar. 27	2403	566	66	1951
Kenney, Edward. (See Murguiondo, Prudencio de, assignor.)						
Kenney, Luke W., New York, N. Y. Skate.....	521,375	June 12	1113	263	67	1414
Kenney, Thomas F., Darby, Pa. Brake-operating mechanism for cars.....	524,329	Aug. 14	615	149	68	792
Kennigott, Louis J. (See Henderson and Kennigott.)						
Kenny, Hugh E., et al. (See Nall, Frederick W., assignor.)						
Kenosha Crib Company. (See Hannahs, Fred C., assignor.)						
Kent, Albert H., assignor to Pratt & Whitney Company, Hartford, Conn. Tap-wrench.....	515,292	Feb. 20	2170	539	66	1294
Kent, Archibald F. (See Wilson, Oliver, assignor.)						
Kent, Arthur C., Janesville, Wis. Lawn-mower.....	523,806	July 31	2999	747	68	621
Kent, Deville H., et al. (See Winters, John W., assignor.)						
Kent, Horace L., Birmingham, assignor to Kent Pulverizer Company, Derby, Conn. Rock-crusher.....	513,114	Jan. 23	2314	{ 557 558 }	66	534
Kent Pulverizer Company. (See Kent, Horace L., assignor.)						
Kent, William J., New York, N. Y. Machine for making horseshoe-bars.....	518,608	Apr. 24	2024	503	67	416
Kent, William J., New York, N. Y. Machine for bending horseshoe-blanks.....	518,609	Apr. 24	2025	503	67	416
Kent, William J., New York, N. Y. Horseshoe.....	530,643	Dec. 11	1019	249	69	1416
Kent, William J., Brooklyn, N. Y. Horseshoe.....	530,644	Dec. 11	1022	249	69	1416
Kenton, Leonidas M., Urbana, Ohio. Combined carpet stretcher and tacker.....	516,441	Mar. 13	1163	279	66	1655
Kenyon, John J., Suncook, N. H. Drill-grinding machine.....	523,897	July 31	3001	747	68	622
Keogh, Dennis. (See Walsh and Keogh.)						
Keogh, William F., Brooklyn, N. Y. Body-shield.....	525,710	Sept. 11	680	157	68	1289
Kepler, Lottie F., Dayton, Ohio. Price-scale.....	514,475	Feb. 13	836	213	66	1038
Kepler, William C., et al. (See Wegner, Frederick A., assignor.)						
Keppeler, Fredrick, Chicago, Ill., assignor to Eastern Plaster Board Company of New Jersey. Partition for buildings.....	515,291	Feb. 20	2168	539	66	1293
Ker, George, assignor to Western Automatic Car Coupling Company, Portland, Oreg. Car-coupling.....	520,928	June 5	333	81	67	1257
Kerhaugh, David O., et al. (See Lewis, Harry A., assignor.)						
Kerl, Ernest E., Mellette, S. D. Collar-fastener.....	512,974	Jan. 16	2108	501	66	424
Kerlin, Fred, Columbia, Pa. Car-coupling.....	525,658	Sept. 4	566	136	68	1255
Kern, Bernard, Jr., Toledo, Ohio, assignor to J. N. Clouse, St. Louis, Mo. Puzzle.....	511,895	Jan. 2	287	66	66	56
Kern, Frank, Mattoon, Ill. Underwaist.....	530,692	Dec. 11	1100	267	69	1430
Kern, Henry, Cambridge, Mass. Lounge.....	514,830	Feb. 13	1422	359	66	1140
Kerr Bag Manufacturing Company. (See Kerr, William H., assignor.)						
Kerr, Charles V., Fayetteville, Ark. Boiler-setting.....	525,907	Sept. 11	1028	232	68	1350
Kerr, Hugh S., Philadelphia, Pa. Knockdown toy.....	518,067	Apr. 10	1089	275	67	215
Kerr, Isaac A., Muscatine, Iowa. Stave-jointing machine.....	524,982	Aug. 21	1726	{ 422 423 }	68	1005
Kerr, John. (See Hartley and Kerr.)						
Kerr, William G., Providence, R. I. Car-fender.....	528,298	Oct. 30	2750	664	69	566
Kerr, William H., Ilchester, Md., assignor to Kerr Bag Manufacturing Company, Concord, N. H. Machine for making bags.....	526,107	Sept. 18	1368	319	68	1425
Kersberg, Rndolf, Hohenlimburg, Germany. Commutator-brush.....	519,188	May 1	446	109	67	623
Kersenbrock, John H., Columbus, Nebr. Heater and cooler for fermented malt liquors.....	514,935	Feb. 20	1589	399	66	1186
Kersey, James M., Peoria, Ill. Minnow-bucket.....	514,476	Feb. 13	837	213	66	1029
Kershaw, Daniel, assignor of one-third to R. Schunman, Fall River, Mass. Device for repairing broken shafts.....	516,602	Mar. 13	1437	341	66	1736
Kershaw, Thomas, Philadelphia, Pa. Feeding device for carding-machines.....	512,443	Jan. 9	1201	291	66	239
Kerstetter, James L. (See Baldwin and Kerstetter.)						
Kerwin, John, assignor of one-half to A. McBride and J. Campbell, Detroit, Mich. Car-brake.....	514,655	Feb. 13	1132	283	66	1084
Kesselring, Wilhelm P., assignor of one-half to H. P. Beiler, Chicago, Ill. Apparatus for testing gas-pipes.....	511,848	Jan. 2	161	41	66	34
Kessler, Charles. (See Slyder, William J., assignor.)						
Kessler, Heinrich P. J., Oberlahnstein, Germany. Automatic locking device for tackles.....	512,380	Jan. 9	1075	262	66	215
Kessler, Jacques L., Clermont-Ferrand, France. Apparatus for concentrating sulfuric acid by means of heated gases.....	520,994	June 5	434	104	67	1275
Kester, Jesse F., assignor to F. P. Little Electrical Construction and Supply Company, Buffalo, N. Y. Commutator-brush.....	514,150	Feb. 6	229	70	66	908
Keeter, Jesse F., Buffalo, N. Y., assignor to F. P. Little Electrical Construction and Supply Company, of New York. Electric-arc lamp.....	519,912	May 15	1704	416	67	884

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Kester, Jesse F., assignor to F. P. Little Electrical Construction and Supply Company, Buffalo, N. Y. Electric-arc lamp	522,327	July 3	260	69	68	52
Kester, Jesse F., assignor to F. P. Little Electrical Construction and Supply Company, Buffalo, N. Y. Electric switch	523,074	July 17	1539	385	68	322
Kester, Jesse F., La Grange, Ill., assignor to F. P. Little Electrical Construction and Supply Company, Buffalo, N. Y. Electric heater	524,062	Aug. 7	158	36	68	691
Kester, John H., Winston, N. C. Tobacco-box-clamping machine	512,975	Jan. 16	2109	501	66	425
Ketas, David, Seattle, Wash. Lavatory apparatus	531,045	Dec. 18	1688	401	69	1553
Ketchum, Charles A., Chicago, Ill. Combination tool or hatchet	513,463	Jan. 23	2879	708	66	643
Ketchum, Henry W. (See Reynolds and Ketchum.)						
Ketchum, Oliver W., Toronto, Canada. Pulley	527,065	Oct. 9	640	155	69	135
Kettmann, Otto, Philadelphia, Pa. Time-indicator for taking medicine	519,913	May 15	1706	416	67	884
Ketton, Francis M., and C. W. Hollis, Nottingham, England. Frictional feed and driving mechanism	512,196	Jan. 2	775	189	66	147
Ketting, John A., Martinsville, Ill. Thill-coupling	525,604	Sept. 4	473	113	68	1240
Keuffel & Esser Company. (See Haff, Adolf, assignor.)						
Keuffel, William L. E. Hoboken, N. J. Tape-measure case	522,064	June 26	2336	561	67	1674
Keuffel, Willie L. E., Hoboken, N. J. Steel tape-measure	521,960	June 26	2162	519	67	1642
Keuser, Emanuel, assignor to M. Kenser, Philadelphia, Pa. Window appliance	528,481	Oct. 30	3064	743	69	622
Kenser, Mary. (See Keuser, Emanuel, assignor.)						
Kewell, Charles, San Francisco, Cal. Lighting or extinguishing street-lamps	529,449	Nov. 20	1680	402	69	992
Keyes, Ernest W. (See Barnes, Pomeroy, and Keyes.)						
Keyes, James A., New York, N. Y., assignor to N. S. Perkins, New London, Conn. Com- posing-stick	530,428	Dec. 4	611	152	69	1327
Keyes, James T., New York, N. Y. Tool for handling small metallic articles	512,381	Jan. 9	1076	262	66	215
Keys, Charles F., Washington, D. C. Ornament for lightning-rods	529,666	Nov. 27	2380	569	69	1130
Keys, John H., West Salem, Ill. Kitchen-cabinet	518,150	Apr. 10	1216	305	67	238
Keystone Driller Company. (See Downie, Robert M., assignor.)						
Keystone Electric Company. (See Sturgeon, Carson J., assignor.)						
Keystone Manufacturing Company. (See Bowen, William H., assignor.)						
Keystone Manufacturing Company. (See Packer, George W., assignor.)						
Keystone Watch Case Company. (See Gruner, Henry, assignor.)						
Keystone Watch Case Company. (See Mink, Fritz, assignor.)						
Keyworth, Thomas R., Jr., New York, assignor of one-half to L. Knapp, Long Island City, N. Y. Valve for water-closets, &c.	518,004	Apr. 10	986	245	67	199
Kidd, Alexander, Brooklyn, assignor of one-half to R. Wood, New York, N. Y. Car- fender	524,175	Aug. 7	354	83	68	726
Kidd, James, Buffalo, N. Y. Direct-acting engine	528,299	Oct. 30	2752	665	69	566
Kidd, Joseph A., and G. W. Hess, Haskins, Ohio. Adjustable socket-clamp for sucker- rods	521,502	June 19	1351	314	67	1475
Kidd, Robert J., Cincinnati, Ohio. Pail-cover	518,889	Apr. 24	2513	622	67	504
Kidder, Francis M., Fredonia, N. Y. Machine for counting grape-cuttings, grape-roots, &c.	526,493	Sept. 25	2060	490	68	1567
Kidder, Wellington P., Boston, Mass. Safety device for elevators. (Reissue)	11,402	Jan. 30	3717	{ 915 916 }	{ 66 66 }	{ 837 837 }
Kidder, Wellington P., Boston, Mass. Safety device for elevators	514,123	Feb. 6	229	53	66	897
Kidder, Wellington P., Boston, Mass. Safety device for elevators	522,297	July 3	214	57, 58	68	43
Kidder, Wellington P., Boston, Mass. Safety device for elevators	525,420	Sept. 4	175	45	68	1183
Kidder, Wellington P., Boston, Mass. Safety device for elevators	525,421	Sept. 4	177	45	68	1183
Kidder, Wellington P., Boston, Mass. Safety device for elevators	525,422	Sept. 4	179	46	68	1184
Kidder, Wellington P., Boston, Mass. Safety device for elevators. (Reissue)	11,452	Nov. 13	1475	354	69	935
Kierolf, Salem E., Jackson, Tenn. Folding vehicle-top	513,578	Jan. 30	3092	{ 780 761 }	{ 66 66 }	{ 718 718 }
Kies, Frank. (See Thoma and Kies.)						
Kiesel, William F., Jr., Altoona, Pa. Tender-scoop	531,191	Dec. 18	1954	464	69	1601
Kiest, Frank G. (See Gould, Clyde H., assignor.)						
Kight, W. S. (See Kight, William K., assignor.)						
Kight, William K., assignor of one-third to W. S. Kight, El Dorado, Ill. Car-coupling	522,940	July 10	1310	326	68	263
Kilanyi, Eduard von, Buda-Pesth, Austria-Hungary. Apparatus for displaying tableaux vivant	528,372	Oct. 30	2872	695	69	588
Kilanyi, Eduard von, Buda-Pesth, Austria-Hungary. Apparatus for displaying tableaux vivant	528,373	Oct. 30	2873	696	69	588
Kilborn, Wilber E., Sidney, Ohio. Wheeled earth-scraper	513,464	Jan. 23	2880	708	66	643
Kile, Abraham, Mount Auburn, Iowa. Wire-splicing device	524,255	Aug. 7	485	112	68	749
Kiler, Charles M., assignor of one-half to S. E. Urnston, Indianapolis, Ind. Station-indicator	512,034	Jan. 2	509	121	66	98
Kiler, Charles M., assignor of one-half to S. E. Urnston, Indianapolis, Ind. Fence	512,885	Jan. 16	1961	465	66	398
Kiler, Charles M., assignor of one-half to S. E. Urnston, Indianapolis, Ind. Fence-post	513,115	Jan. 23	2317	558	66	534
Kilgore, Frederick O., Minneapolis, Minn. Cushion for log-carriers	517,922	Mar. 27	2500	588	66	1970
Kilgore, John S., assignor of one-half to W. W. Shay, Salida, Colo. Sole and heel plate	518,923	Apr. 24	2569	635	67	514
Killeen, Margaret, Halifax, Canada. Fire-escape	511,896	Jan. 2	288	66	66	56
Killen, Edward B., Belfast, Ireland. Suspension-rim for vehicle-wheels	526,713	Oct. 2	73	19	69	16
Kilgore, Jesse F. (See Mathews and Doyle, assignors.)						
Killpack, Frederick A., Ferron, Utah Terr. Device for unloading hay	517,867	Apr. 10	736	185	67	156
Kilmarch, Otto E., West Hoboken, N. J., assignor to Leschhorn & Riegelmann, New York, N. Y. Knitting-machine for trimmings	515,086	Feb. 20	1819	459	66	1227
Kilmer, Irving A., deceased; W. A. Kilmer, Newburg, N. Y., administrator. Wire-barbing machine	519,633	May 8	1258	{ 302 303 }	{ 67 67 }	{ 787 787 }
Kilmer Manufacturing Company. (See Lehberger, George, assignor.)						
Kilmer, Melvin D., Newburg, N. Y. Piston-packing	523,147	July 17	1687	422	68	350
Kilmer, William A., administrator. (See Kilmer, Irving A.)						
Kilmer, William A., Newburg, N. Y. Rod-mill guide	530,591	Dec. 11	926	227	69	1400
Kilpatrick, Alexander, et al. (See Giessler, William J., assignor.)						
Kimball, Adolphus and P., Arkansas City, Ark. Drying-kiln	517,700	Apr. 3	480	115	67	92
Kimball, George H., et al. (See Libber, Hosea W., assignor.)						
Kimball, Grace M., Oakland, Cal. Sash-fastener	518,253	Apr. 17	1409	353	67	290
Kimball, James F., Mariaville, Me., assignor to Western Wheeled Scraper Company, Au- rora, Ill. Road-machine	527,610	Oct. 16	1532	372	69	312
Kimball, Lewis F., et al. (See Timbrell and Fyfe, assignors.)						
Kimball, Lewis H. and O. N., Iowa, Iowa. Automatic center-delivery hay-rake	519,362	May 1	579	141	67	649
Kimball, Owen N. (See Kimball, Lewis H. and O. N.)						
Kimball, Phineas. (See Kimball, Adolphus and P.)						
Kimball, Sophie H., Ceres, N. Y. Spoon	527,115	Oct. 9	718	176	69	148
Kimball, Walter D., assignor of one-third to W. H. Miller, Eustis, Fla. Umbrella	526,155	Sept. 18	1448	338	68	1439
Kimball, William W., assignor of one-half to G. S. Prindle and P. G. Russell, Washington, D. C. Pistol	513,237	Jan. 23	2505	605	66	572

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Kimberlin Manufacturing Company. (See Neisler, Oscar L., assignor.)						
Kimbrell, William P., Beaver City, Nebr. Combined hay-rack, hay-stand, and stock-wagon.....	520,039	Sept. 18	1245	{ 288 289 }	68	1403
Kimmons, John A., <i>et al.</i> (See Cook, Thomas C., assignor.)						
Kimsey, Benjamin F., Terre Haute, Ind. Bow-facing oar.....	525,269	Aug. 28	2237	546	68	1113
Kinder, Frederick H., Strathroy, Canada. Self-supporting attachment for bicycles.....	525,954	Sept. 11	1098	250	68	1363
Kinder, Joseph J. de, Philadelphia, Pa. Furnace.....	523,040	July 17	1492	371	68	313
Kindig, Samuel C., assignor of one-half to L. Biden, Baltimore, Md. Car-fender.....	519,128	May 1	338	80	67	603
Kindl, Frederick H., Pittsburg, Pa. Apparatus for rolling beams.....	520,060	May 22	1953	478	67	944
Kindl, Frederick H., Pittsburg, Pa. Apparatus for rolling beams. (Reissue).....	11,454	Nov. 20	2076	497	69	1064
Kindley, Asa, New Holland, Ind. Foot-stove.....	524,485	Aug. 14	898	221	68	843
Kindred, Charles F. (See Danzenbaker, Howe E., assignor.)						
King, Ahrum S., and R. Beardsley, Ashby, Minn. Pipe or rod wrench.....	513,580	Jan. 30	3096	761	66	712
King, Albert M., Wilmington, Del. Car-door-operating mechanism.....	523,213	July 17	1801	452	68	369
King, Albert M., Wilmington, Del. Water-closet.....	525,659	Sept. 4	567	{ 136 137 }	68	1255
King, Charles B., Detroit, Mich. Pneumatic tool.....	513,941	Jan. 30	3664	903	66	826
King, Charles B., Detroit, Mich. Brake-beam.....	513,942	Jan. 30	3668	903	66	827
King, Charles W., assignor to C. S. Luitwieler, Newton, Mass. Lasting-machine.....	523,402	July 24	2123	{ 533 531 }	68	445
King, Edward D. (See Bolte and King.)						
King, Edward D., Milwaukee, Wis. Bicycle.....	520,826	June 5	128	28	67	1220
King, Edward J. (See King, William and E. J.)						
King, Edward J., Toledo, Ohio. Apparatus for manufacturing plate-glass.....	517,460	Apr. 3	79	17	67	17
King, Elias, Sidney, Ohio. Washing-machine.....	513,020	Jan. 16	2179	519	66	437
King, Ferdinand. (See Weinhausen and King.)						
King, Francis M., Philadelphia, Pa. Water-box of grinding-wheels.....	516,535	Mar. 13	1002	238	66	1657
King, Frederick L., Chicago, Ill. Closed-conduit electric railway.....	516,374	Mar. 13	1053	250	66	1664
King, Frederick L., Chicago, Ill. Closed conduit for electric railways.....	529,797	Nov. 27	2257	{ 538 539 }	69	1105
King, George E. (See Palmer, Samuel D., assignor.)						
King, George R., Dallas, Tex. Electric appliance for horses.....	516,740	Mar. 20	1687	399	66	1798
King, George W., Marion, Ohio. Jack for supporting or bracing excavators, &c.....	512,585	Jan. 9	1418	342	66	279
King, George W., Marion, Ohio. Reversing-gear.....	520,647	May 29	2957	715	67	1146
King, George W., Marion, Ohio. Reversing-gear.....	528,780	Nov. 6	456	112	69	729
King, George W., Marion, Ohio. Traveling crane.....	528,781	Nov. 6	457	{ 112 113 }	69	730
King, Gertrude M., Nantucket, Mass. Ellipsograph.....	517,522	Apr. 3	172	39	67	35
King, Herbert. (See Winslow and King.)						
King, Howard K., assignor to Chambers Brothers Company, Philadelphia, Pa. Safety gear-wheel connection.....	531,046	Dec. 18	1690	401	69	1553
King, James C., <i>et al.</i> (See Markley, John A., assignor.)						
King, James L., Springfield, Ill. Dust-inhibitor.....	522,989	July 17	1405	350	68	297
King, John A., Galesburg, assignor of one-half to S. B. Moody, La Grange, Ill. Buckle.....	518,999	May 1	100	24	67	554
King, John T., Little Rock, Ark. Spark-conductor for steam-engines.....	520,115	May 22	2052	502	67	963
King, John T., and S. H. Truitt, La Grange, Ga. Harvesting or planting pouch.....	516,097	Mar. 6	584	137	66	1561
King, Monroe, Princeton, Ind. Adjustable scaffold.....	522,526	July 3	595	153	68	117
King, Osman S., Painesville, Ohio. Sliding-door lock.....	512,714	Jan. 16	1633	392	66	336
King, Paul, Washington, D. C. Leather-stretching machine.....	513,943	Jan. 30	3669	904	66	827
King, Peter M. (See Scheibel, Richard, assignor.)						
King, Stephen, <i>et al.</i> (See Casswell, Richard H., assignor.)						
King, Thomas, assignor to Greene & Knox Manufacturing Company, Providence, R. I. Eyeglass-holder.....	520,024	May 15	1296	463	67	918
King, William, Longmont, Colo. Pipe-wrench.....	521,267	June 12	913	216	67	1376
King, William, assignor of one-half to D. E. Secor, Longmont, Colo. Pipe-tongs.....	514,936	Feb. 20	1590	399	66	1186
King, William, Elmira, N. Y., and E. J. King, Philadelphia, Pa. Action for pipe-organs.....	522,902	July 10	1241	308	68	251
King, William D., assignor of one-half to L. D. Douglas, Reading, Pa. Faucet.....	526,500	Sept. 4	300	74	68	1207
King, William H., New Haven, Conn. Window-curtain fixture.....	516,603	Mar. 13	1438	341	66	1736
King, William W., and F. M. Dunn, Wellman, Miss. Nut-lock.....	514,623	Feb. 13	1085	270	66	1075
King, William W., and F. M. Dunn, Wellman, Miss. Wheel-hub.....	514,624	Feb. 13	1086	270	66	1075
King, Willis L., Apponaug, assignor to himself, and L. K. Potter, Warwick, R. I. Automatic firearm.....	515,526	Feb. 27	2561	{ 634 635 }	66	1378
Kingsman, Alphens H., and T. C. Mosely, Chicago, Ill. Heater.....	512,035	Jan. 2	510	121	66	98
Kingsbury, Addison, <i>et al.</i> (See Kingsbury, Arthur L., assignor.)						
Kingsbury, Addison, Coventry, Conn. Box-machine.....	515,341	Feb. 27	2262	561	66	1322
Kingsbury, Arthur L., Northampton, Mass., assignor of two-thirds to A. Kingsbury, South Coventry, and F. H. Allen, Norwich, Conn. Machine for cornering box-blanks.....	530,780	Dec. 11	1246	{ 301 302 }	69	1158
Kingsbury, Martin V., Dover, Del. Mustache-guard.....	529,553	Nov. 20	1868	444	69	1025
Kingsford, Thomson. (See Joy, Robert, assignor.)						
Kingsland & Douglas Manufacturing Company. (See Schulze, Andrew, assignor.)						
Kingsland, Hugh A., Belleville, and W. P. Sanger, East Orange, N. J. Gun-barrel.....	513,398	Jan. 23	2765	674	66	621
Kingsland, Philip S., and C. C. Hill, Chicago, Ill.; said Hill assignor to said Kingsland. Automatic boiler-fine scraper.....	514,195	Feb. 6	365	{ 87 88 89 }	66	922
Kingsley, Alba T. (See McCawley and Kingsley.)						
Kingsley, Alba T., assignor of two-thirds to M. McCawley, Millport, and J. B. Stanchfield, Elmira, N. Y. Door-hanger.....	529,919	Nov. 27	2464	594	69	1145
Kingsley, Horace L., Racine, Wis. Polo and neck-yoke connection for vehicles.....	523,148	July 17	1628	422	63	350
Kingzett, Charles T., London, England. Sulfur candle.....	516,207	Mar. 13	775	181	66	1613
Kinley, Jacob H., and W. P. Shney, Hummelstown, Pa. Ironing-board.....	523,355	July 24	2045	514	68	431
Kinnaman, Edward H., assignor of one-half to B. F. Flowers, Bellvue, Colo. Brake-shoe clamp.....	527,862	Oct. 23	1964	472	69	408
Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. Sales-check carrier.....	514,010	Feb. 6	57	14	66	865
Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. Memorandum-sales-slip book.....	514,937	Feb. 20	1591	400	66	1186
Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. Memorandum-sales-slip case.....	514,938	Feb. 20	1592	400	66	1186
Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. Memorandum-sales-slip case.....	514,939	Feb. 20	1593	401	66	1187
Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. Cover for memorandum-sales-slip books.....	526,397	Sept. 25	1884	448	68	1536
Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. Memorandum sales-slip package.....	531,317	Dec. 25	2194	525	69	1661

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Kinnard, Will M., Dayton, Ohio, assignor to Carter-Crume Company, Niagara Falls, N. Y. } Sales-check case.....	531,551	Dec. 25	2599	{ 622 } { 623 }	{ 69 } { 1738 }	
Kinnear, William R., Columbus, Ohio. Horseshoe.....	514,011	Feb. 6	59	14	66	865
Kinnear, William R., Columbus, Ohio. Machine for rolling sheet metal.....	515,402	Feb. 27	2364	587	66	1341
Kinney, Elmer A., and J. S. Hobby, Pine Barren, Fla. Drying-kiln.....	513,188	Jan. 23	2427	586	66	556
Kinney, George F., assignor to himself, J. N. Wallace, and E. Coppersmith, New York, N. Y. Bottle.....	530,429	Dec. 4	612	152	69	1327
Kinney, John V. <i>et al.</i> (See Hall, Charles H., assignor.).....						
Kinney, Robert D., Philadelphia, Pa. Heat-motor plant.....	521,910	June 26	2055	495	67	1623
Kinniburgh, James W., Wellington, New Zealand. Ear-pad for telephone-receivers.....	520,786	June 5	43	10	67	1205
Kinnie, Henry A. (See McCormick, William H., assignor.).....						
Kinsey, Edwin F., Washington, D. C. House mail-box.....	518,924	Apr. 24	2570	{ 635 } { 636 }	{ 67 } { 514 }	
Kinsey, Josiah J., Rochester, N. Y. Door-controlling device.....	523,431	July 24	2172	547	68	454
Kinsey, Leonidas C., Montgomery Station, Pa. Spout for vessels.....	523,580	July 24	2433	611	68	500
Kinsley, Frank. (See Frisbie, Henry R., assignor.).....						
Kinsman, Chester C., San Francisco, Cal. Hoisting apparatus.....	524,553	Aug. 14	1016	250	68	864
Kinsman, Frank E., Plainfield, N. J. Railway signal device.....	520,061	May 22	1954	{ 478 } { 479 }	{ 67 } { 945 }	
Kinsman, Frank E., Plainfield, N. J. Apparatus for controlling the movement of railway trains or vehicles.....	520,062	May 22	1958	479	67	945
Kinsman, Frank E., Plainfield, N. J. Railway-signal.....	523,723	July 31	2701	669	68	565
Kinter, George H., and G. D. Teller, assignors of one-third to G. Tait, Buffalo, N. Y. Brake for railway-cars.....	530,185	Dec. 4	192	47, 48	69	1250
Kintner, Charles J. (See Crounse, Albert B., assignor.).....						
Kintner, Charles J. (See Paget, Leonard, assignor.).....						
Kintner, Charles J., New York, N. Y. Closed-conduit railway.....	512,444	Jan. 9	1204	{ 291 } { 292 }	{ 66 } { 239 }	
Kinzlberger & Co. (See Muhlelt, Franz, assignor.).....						
Kinzly, Hermann, Indianapolis, Ind. Hair structure.....	513,579	Jan. 30	3096	761	66	718
Kions, Jasper D., assignor to L. Throop, Momence, Ill. Blackboard-eraser.....	522,469	July 3	507	129	68	101
Kipper, Charles. (See Pero, George W., assignor.).....						
Kirby, Edward R., Terre Haute, Ind. Car-coupling.....	530,186	Dec. 4	194	48	69	1250
Kirby, Fitz A., and J. Henning, Wyandotte, Mich. Flanging-machine.....	526,714	Oct. 2	75	19, 20	69	16
Kirby, Frank E., assignor to Detroit Dry Dock Company, Detroit, Mich. Ash-ejector.....	522,119	June 26	2428	583	67	1690
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Curtain-rod fixture for sleeping-cars.....	518,958	May 1	34	9	67	542
Kirby, John, Jr., assignor to Dayton Manufacturing Company, Dayton, Ohio. Lamp.....	520,265	May 22	2332	566	67	1013
Kirby, William A., New York, N. Y. Self-adjusting arm-rest.....	525,766	Sept. 11	774	179	68	1305
Kirchenbauer, Louis, Chicago, Ill. Machine for twisting and punching grill-wires.....	527,428	Oct. 16	1233	303	69	257
Kirchoff, Richard, assignor to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Crimson azo dye.....	512,116	Jan. 2	648	.....	66	124
Kirchoff, Richard, assignor to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Black dye.....	516,604	Mar. 13	1441	.....	66	1737
Kirchmann, Josef, and K. Schwinghammer, Munich, Germany. Composition for furnace-walls.....	529,450	Nov. 20	1681	.....	69	992
Kirchner, Frank H., <i>et al.</i> (See Cabot, John A., assignor.).....						
Kirchner, Henry W., Denver, Colo., and G. N. Chase, Pasadena, Cal. Car for elevated structures.....	513,268	Jan. 23	2570	{ 620 } { 621 } { 622 }	{ 66 } { 525 }	
Kirchner, Henry W., and W. A. Spears, Denver, Colo. Flushing-tank for water-closets.....	520,436	May 29	2610	632	67	1082
Kirchner, Peter A., Fort Wayne, Ind. Water-alarm for steam-boilers.....	521,169	June 12	736	174	67	1344
Kirk, Charles. (See Clark, Cameron, and Kirk.).....						
Kirk, Franklin, Kansas City, Mo. Lumber-truck for dry-kilns.....	515,232	Feb. 20	2065	514	66	1272
Kirk, Jason E., Burnside, assignor of one-half to J. Kirk, Hawk Run, Pa. Treadle for machinery.....	516,333	Mar. 13	973	231	66	1651
Kirk, John A., Washington, D. C. Puzzle or game.....	528,675	Nov. 6	251	68	69	697
Kirk, John P., Austin, Tex. Pinless clothes-line.....	512,715	Jan. 16	1634	392	66	336
Kirk, John P., Austin, Tex. Car-coupling.....	523,667	July 31	2595	647	68	547
Kirk, Joseph. (See Kirk, Jason E., assignor.).....						
Kirk, William H. (See Dumke, Franke F., assignor.).....						
Kirkbride, David, Salem, Ohio. Lifting or hoisting tool.....	517,281	Mar. 27	2592	607	66	1987
Kirkbride, Thomas E., and C. E. Ouram, Philadelphia, Pa. Friction-clutch pulley.....	521,240	June 12	883	293	67	1367
Kirkegaard, Georg, Brooklyn, N. Y. Electric arc lamp.....	515,342	Feb. 27	2263	561	66	1322
Kirkegaard, Peter, Brooklyn, N. Y. Electric-arc lamp.....	522,735	July 10	970	242	68	200
Kirker, Harry L., and W. Chambers, assignors to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Former for winding armature-coils.....	520,143	May 22	2120	517	67	974
Kirkham, John J., Terre Haute, Ind. Apparatus for the manufacture of gas.....	516,865	Mar. 20	1877	444	66	1825
Kirkpatrick, Charles, <i>et al.</i> (See Miltonberger, Wynant, and Schott, assignors.).....						
Kirkpatrick, Charles C., <i>et al.</i> (See Bessonette, William T., assignor.).....						
Kirkpatrick, John A., Chicago, Ill., assignor of one-half to G. W. McDaniels, Anthony, Kans. Road-cart.....	512,716	Jan. 16	1635	{ 392 } { 393 }	{ 66 } { 336 }	
Kirkpatrick, John W., Boston, Mass. Package for goods.....	515,881	Mar. 6	231	54	66	1497
Kirkpatrick-Picard, Hugh F., and H. Thame, London, England. Manufacturing elements or plates for secondary batteries.....	527,861	Oct. 23	1963	472	69	408
Kirkpatrick-Picard, Hugh F., and H. Thame, London, England. Manufacturing plates for secondary batteries.....	530,847	Dec. 11	1344	322	69	1475
Kirkpatrick, William P., Arrowsmith, Ill. Shuttle for carpet-ooms.....	525,660	Sept. 4	573	137	68	1256
Kirks, Albert, assignor to Diebold Safe and Lock Company, Canton, Ohio. Time-lock.....	520,144	May 22	2121	518	67	974
Kirlin, Linden, Beattie, Kans. Cultivator or seed-planter.....	520,002	May 15	1854	453	67	911
Kirman, William H., Bayonne, N. J., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Fire-alarm box.....	518,722	Apr. 24	2238	557	67	453
Kirman, William H., Bayonne, N. J., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Indicator for fire-alarm or other purposes.....	520,234	May 22	2275	554	67	1002
Kirsch, George P., Decatur, Ind. Lawn-mower.....	527,697	Oct. 16	1680	404	69	340
Kirsch-King, Albert W., assignor of one-half to Frazier Cycle Company, Chicago, Ill. Journal-bearing.....	529,554	Nov. 20	1869	444	69	1025
Kirsch, Richard, Bay Ridge, N. Y. Window-sash fastener.....	519,507	May 8	1207	291	67	779
Kirschner, Auguste, St. Etienne-de-Rouvray, France. Cotton-opener.....	531,193	Dec. 18	1936	465	69	1602
Kirstein, Henry E. (See Gilbert, Benjamin A., assignor.).....						
Kirstein, Henry E., Rochester, N. Y. Eyeglasses.....	527,611	Oct. 16	1536	373	69	313
Kirstein, Henry E., Rochester, N. Y. Eyeglasses or spectacles.....	527,612	Oct. 16	1538	373	69	314
Kirtland, Charles E., St. Francis, Wis. Sounding apparatus.....	528,600	Nov. 6	136	34	69	671
Kirtley, Harry L., assignor to R. E. Vickers, F. L. Doolittle, Huntington, and J. F. Kirtley, Searey, W. Va. Coin-operated cigar-vending machine.....	527,995	Oct. 23	2224	{ 536 } { 537 }	{ 69 } { 455 }	

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Kirtley, Harry L., assignor to R. E. Vickers, F. L. Doolittle, Huntington, and J. F. Kirtley, Scarey, W. Va. Cigar-vending machine.	529,276	Nov. 13	1350	{ 323 324 }	{ 69 }	911
Kirtley, John F., <i>et al.</i> (See Kirtley, Harry L., assignor.)						
Kirven, Erasmus E., Darlington, S. C. Root-cutter and stump-extractor	520,363	May 22	2498	604	67	1046
Kirwin, Eliza, Indianapolis, Ind. Catamenial sack	514,717	Feb. 13	1239	308	66	1105
Kiskadden, Robert A., Allegheny, Pa. Apparatus for operating railway-brakes.	519,688	May 8	134*	325	67	804
Kissinger, Thomas, assignor of one-half to J. F. Sturgis, Lititz, Pa. Alarm match-safe.	530,063	May 22	1961	480	67	946
Kitchen, John G. A., Ardwick, England. Wheel or roller skate	525,270	Aug. 28	2238	546	68	1114
Kitchen, John G. A., Ardwick, near Manchester, England. Brake apparatus for cycles or other road-vehicles.	530,693	Dec. 11	1101	267	69	1430
Kitson, Arthur, Philadelphia, Pa. Carbureting gas-lamp.	517,326	Mar. 27	2805	655	66	2030
Kitson Machine Company. (See Morton, Albert H., assignor.)						
Kitson, Thomas, Stroudsburg, Pa. Blower	526,236	Sept. 18	1587	373	68	1465
Kittell, Henry E. (See Plowman and Kittell.)						
Kittilsen, Levi. (See Guldhang, John J., assignor.)						
Kitts, Charles A. (See Whiteley, William N., assignor.)						
Kittson, Alfred B., Boston, and A. B. Browne, Cambridge, Mass. Apparatus for deoxidizing or oxidizing.	522,422	July 3	424	{ 108 109 }	{ 68 }	84
Kizer, Carey F., and S. N. Murdock, Columbus, Ohio. Noiseless slate.	529,867	Nov. 27	2382	570	69	1130
Klaaffky, Gottfried F., and F. Faltinowsky, New York, N. Y. Device for preventing railway collisions	514,083	Feb. 6	169	40	66	886
Klaaffky, Gottfried F., and F. Faltinowsky, New York, N. Y. Signal for cable railways.	529,920	Nov. 27	2465	594	69	1145
Klatte, Emil H. E., Freiburg, Baden, Germany. Electrically-governed switch.	519,813	May 15	1548	{ 378 379 }	{ 67 }	855
Klatte, Otto, Neuwied, Germany. Rolls for the manufacture of chains.	523,432	July 24	2174	{ 547 548 }	{ 68 }	454
Klatte, Otto, Neuwied, Germany. Machine for sawing chain-bars	523,433	July 24	2176	548	68	454
Klatte, Otto, Neuwied-on-the-Rhine, Germany. Means for adjusting rolls for rolling-mills.	523,434	Dec. 18	1518	360	69	1522
Klan, Robert, <i>et al.</i> (See Schmidt, Oscar K., assignor.)						
Klanberg, Charles, New Haven, Conn. Convertible carriage-body.	525,908	Sept. 11	1028	233	68	1351
Klander-Weldon Dyeing Machine Company. (See Weldon, Leonard, assignor.)						
Klauke, Carl, Müncheberg, Germany. Snow-shelter.	514,999	Feb. 20	1683	422	66	1203
Kleber, Oscar L., assignor of one-half to R. J. Stoney, Jr., and H. Braun, Pittsburg, Pa. Printing-telegraph.	521,170	June 12	739	175	67	1344
Klees, James A., Reading, Pa. Dumping-wagon.	519,455	May 8	930	224	67	730
Kleibauer, James, Jr., assignor to himself and C. E. Curran, Johnson, Nebr. Riding attachment for plows	527,996	Oct. 23	2229	538	69	456
Klein, Henry, Allegheny, Pa. Brake	514,940	Feb. 20	1597	401	66	1187
Klein, Adolph. (See Klein, Michael A., assignor.)						
Klein & Co., F. G. (See Leber, Louis, assignor.)						
Klein, George S., Toronto, Canada. Stem-winding watch.	521,884	June 26	1998	482	67	1612
Klein, Henry, Janesville, Wis. Thermal circuit-breaker	530,430	Dec. 4	612	152	69	1327
Klein, Henry, and E. Rowenhagen, Chicago, Ill. Constructing buildings	525,847	Sept. 11	934	209	68	1333
Klein, John S., Oil City, Pa. Means for pumping liquids from gas-producing wells	531,537	Dec. 25	2577	616	69	1733
Klein, Leon. (See De la Mar, Joseph, assignor.)						
Klein, Michael A., assignor to A. Klein, Chicago, Ill. Puzzle	525,767	Sept. 11	775	180	68	1305
Klein, Theodore H., and H. C. French, Cleveland, Ohio; said French assignor to said Klein. Window-shade bracket.	520,648	May 29	2953	716	67	1146
Kleine, Johannes F., Essen-on-the-Ruhr, Germany. Construction of floors or ceilings.	515,434	Feb. 27	2422	600	66	1352
Kleiner, Eugen, W. Bokmayer, and O. Hoffmann, Mödling, Austria-Hungary, assignors to C. V. Haworth, Oldham, England. Air-moistening and ventilating apparatus	511,897	Jan. 2	289	67	66	56
Kleiner, Eugen, W. Bokmayer, and O. Hoffmann, Mödling, Austria-Hungary, assignors to C. V. Haworth, Oldham, England. Air-moistening apparatus.	514,556	Feb. 13	965	244	66	1053
Kleinert, Isaac B., assignor to I. B. Kleinhert Rubber Company, New York, N. Y. Ear-muff.	529,176	Nov. 13	1179	284	69	880
Kleinfeldt, Arthur, Brooklyn, N. Y., assignor to Eureka Can Opening Company, of New Jersey. Key for opening metal cans	517,523	Apr. 3	173	39	67	36
Kleinfeldt, Arthur, Brooklyn, N. Y., assignor to Perfection Safety Gas-Burner Company, of New Jersey. Gas cut-off device	522,600	July 10	724	185	68	157
Kleinfeldt, Arthur, Brooklyn, N. Y., assignor to Perfection Safety Gas-Burner Company, of New Jersey. Gas cut-off device	522,601	July 10	728	186	68	158
Kloinneck, Charles G., Mount Vernon, Iowa. Car-coupling	512,717	Jan. 16	1637	393	66	337
Kleinstenber, Monroe A. (See Kleinstenber, Oscar D. and M. A.)						
Kleinstenber, Oscar D. and M. A., assignors of one-third to J. T. Janssen, Milwaukee, Wis. Electric distribution-box	515,087	Feb. 20	1821	459	66	1227
Kleinstenber, Oscar D. and M. A., assignors of one-third to F. E. Woller, Milwaukee, Wis. Signalling apparatus	515,589	Feb. 27	2659	600	66	1398
Kleinstenber, Oscar D. and M. A., assignors of one-third to J. T. Janssen, Milwaukee, Wis. Electric distribution-box	522,664	July 10	835	208	68	177
Klema, Martin, Caledonia, Wis. Potato-digger.	527,863	Oct. 23	1965	472	69	408
Klemm, George F., Philadelphia, Pa. Incandescent-lamp stand and reflector.	525,909	Sept. 11	1029	233	68	1351
Klenk, Christian, assignor of one-half to W. S. Jewiss, Connerville, Ind. Liquid wood-filler	524,781	Aug. 21	1393		68	947
Klenze, Henry G., Great Falls, Mont. Office-indicator.	529,277	Nov. 13	1353	324	69	911
Kleritj, Ljubomir, Belgrade, Servia. Polypantograph.	512,718	Jan. 16	1638	{ 393 394 }	{ 66 }	337
Kleritj, Ljubomir, Belgrade, Servia. Polypantograph.	512,719	Jan. 16	1640	394	66	337
Kleritj, Ljubomir, Belgrade, Servia. Differential pulley	516,098	Mar. 6	584	137	66	1562
Kleritj, Ljubomir, Belgrade, Servia. Magnetic water-gage	530,592	Dec. 11	927	227	69	1400
Klettner, Charles, Cincinnati, Ohio. Automatic railway-car protector	528,254	Oct. 30	2672	{ 643 644 }	{ 69 }	553
Kline, Charles L., New York, N. Y. Barrel-washer	530,593	Dec. 11	928	228	69	1401
Kline, John. (See Betz, Jacob E., assignor.)						
Kline, William, Piqua, Ohio. Clamp.	521,658	June 19	1613	378	67	1522
Kline, William H., assignor of one-half to W. P. Bushell, Philadelphia, Pa. Trolley-wire bracket.	517,926	Apr. 10	837	210	67	175
Kline, Winfield S., Bolivar, and J. B. Westhafer, New Philadelphia, Ohio. Trolley-wire bracket.	531,437	Dec. 25	2392	572	69	1699
Klinefetter, Gideon, and J. W. Nash, Nortonville, Kans. Pruning-tool	527,116	Oct. 9	712	176	69	148
Kling, Luther S., Duncannon, Pa. Jeweling-tool.	512,653	Jan. 9	1534	368	66	302
Kling, Peter M., <i>et al.</i> (See Sawade, Gustave C., assignor.)						
Kling, Peter M., St. Louis, Mo. Street-car	516,934	Mar. 20	1994	469	66	1856
Kling, Peter M., St. Louis, Mo. Railway-car	516,935	Mar. 20	1995	{ 469 470 }	{ 66 }	1856
Klinger, Alexander, California, Mo. Ejecting apparatus.	523,561	July 24	2435	611	68	501
Klinghammer, Theodor, Speyer, Germany. Method of and means for closing vessels	512,636	Jan. 2	512	121	66	98

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Klink, Adam, Coaltown, Pa. Corn-planter	527,429	Oct. 16	1238	304	69	257
Klink, Eli, Salem, Ind. Mole-trap	515,233	Feb. 20	2066	515	66	1273
Klippel, Jacob, administrator. (See Pinard, Zatlque.)						
Klipper, Fredrick W. (See Meyer, August, assignor.)						
Klock, Adam L., St. Johnsville, N. Y. Manufacturing mirrors	526,398	Sept. 25	1885	.....	68	1536
Klogel, Karl S., New York, N. Y. Sewing-machine	524,063	Aug. 7	160	36	68	691
Klönne, August. (See Müller, Heinrich, assignor.)						
Klönne, August, Dortmund, Germany. Gas-holder	513,514	Jan. 30	2973	732	66	695
Klönne, August, Dortmund, Germany. Furnace	513,515	Jan. 30	2975	732	66	696
Klose, Karl A., Richfield, Minn. Wrench	520,529	May 29	2767	669	67	1110
Kloss, Ernst, Stettin, Germany. Electrical temperature-annunciator	519,634	May 8	1260	303	67	788
Klotz, Charles A., Vallejo, Cal. Blowing-engine	516,442	Mar. 13	1164	279	66	1686
Kloz, Ludwig, Leadville, Colo. Extracting zinc from ores	518,890	Apr. 24	2514	622	67	504
Kluepfel, Hermann, Barmen, Germany. Fine-fuel furnace	516,652	Mar. 20	1532	365	66	1770
Klund, John E., <i>et al.</i> (See Brown, Norman E., assignor.)						
Klusmeyer, John. (See Clandy and Klusmeyer.)						
Knadler, Godfred, Cleveland, Ohio. Manufacturing casings or sheaths for pneumatic tires	525,711	Sept. 11	681	158	68	1289
Knapp, Edgar D., Schenectady, N. Y. Combined cut-out and cord-adjuster	520,318	May 22	2414	587	67	1028
Knapp, Alonzo J., Alliance, Nebr. Animal-trap	522,602	July 10	731	186	68	159
Knapp, Charles. (See Millard, Martin S., assignor.)						
Knapp, Charles, assignor to A. G. Bean and H. O. Rockwell, St. Louis, Mo. Electric-trolley device	516,492	Mar. 13	1248	299	66	1701
Knapp, David W. (See Fearn, William R., assignor.)						
Knapp, Edgar, Middleport, N. Y. Bean-separator	515,776	Mar. 6	82	20	66	1469
Knapp, Fred H. (See Cornell, Evan W., assignor.)						
Knapp, Fred H., Adrian, Mich. Fence-wire-fastening device	514,557	Feb. 13	967	244	66	1053
Knapp, George W., Baltimore, Md. Socket for dippers	514,230	Feb. 6	443	106	66	936
Knapp, George W., Baltimore, Md. Attaching spouts to sheet-metal vessels	520,235	May 22	2279	554	67	1002
Knapp, George W., Baltimore, Md. Attaching handles to sheet-metal vessels	524,854	Aug. 21	1519	371	68	968
Knapp, George W., and J. V. Chamberlin, Worcester, Mass. Valve	517,575	Apr. 3	261	60	67	51
Knapp, Jacob E., Brownsville, Oreg. Gate	531,378	Dec. 25	2300	548 549	69	1620
Knapp, James C., <i>et al.</i> (See Reynolds, Hamline W., assignor.)						
Knapp, John H., Decatur, assignor to J. A. Suffern, Pierson, Ill. Joint for cultivators ...	531,592	Dec. 25	2667	640	69	1752
Knapp, Lucien. (See Keyworth, Thomas R., Jr., assignor.)						
Knapp, Shepard, <i>et al.</i> (See Whitacre, William C., assignor.)						
Knapp & Stout Co. Company. (See Randall, Frank J., assignor.)						
Knapp, William H., Galesburg, Mich. Paddle-wheel for boats	526,533	Sept. 25	2115	506	68	1578
Knapstein, Carl C., <i>et al.</i> (See Paro, Edward, assignor.)						
Knauer, Cyrus A., assignor of two-thirds to J. H. Geiger and H. Himmelright, Pottstown, Pa. Chalk-holder for billiard or other cues	518,068	Apr. 10	1090	275	67	215
Knauer, Pankratz, Elizabeth, N. J. Lubricator for journals	522,838	July 10	1145	283	68	232
Knauer, Will O., Woodland, and A. V. Tyler, Sacramento, Cal. Box-making vise	525,501	Sept. 4	301	74	68	1208
Knauss, Charles C., and J. E. Krause, Bethlehem, Pa. Rotary engine and pump	519,156	May 1	392	94	67	613
Knauss, Frank V., Portsmouth, Ohio. Oven-door for cooking stoves or ranges	536,974	Oct. 2	493	122	69	93
Knauss, Frank V., Portsmouth, Ohio. Damper for cooking stoves or ranges	539,622	Nov. 20	1970	469	69	1045
Kneeland, Frank G., <i>et al.</i> (See Leonard, David, assignor.)						
Kneip, Anton, Maspeth, assignor to himself, and J. J. Reed, Brooklyn, N. Y. Railway-switch	513,944	Jan. 30	3672	904	66	828
Kneip, William F., Ypsilanti, Mich. Knit garment	513,047	Jan. 16	2213	530	66	444
Knickerbocker Company. (See Hogeboom, Levi S., assignor.)						
Knickerbocker, Dwight W. (See Merritt, James M., assignor.)						
Knichtscher, Rudolph, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Blue dye	524,256	Aug. 7	486	.....	68	749
Kniffen, Le Grand, Chicago, Ill. Combined corn shelling and grinding machine	514,656	Feb. 13	1134	283	66	1085
Knight, Alonzo C., <i>et al.</i> (See Quackenbush, George, assignor.)						
Knight, Charles A. (See Sloan, William E., assignor.)						
Knight, Charles H., Philadelphia, Pa. Shaft-support for vehicles	526,108	Sept. 18	1370	320	68	1425
Knight, Charles H., Rondout, assignor to National Chair Manufacturing Company, Chester, N. Y. Adjustable chair	516,493	Mar. 13	1249	299	66	1701
Knight, Charles H., Rondout, L. A. Chichester, and D. S. Relyea, assignors to National Chair Manufacturing Company, Chichester, N. Y. Adjustable chair	525,051	Aug. 23	1881	460 461	68	1050
Knight, Frank E. (See Smith, Herbert S., assignor.)						
Knight, Frank E., New York, and H. S. Smith, Brooklyn, N. Y. Shade for lamps	520,649	May 29	2959	716	67	1146
Knight, George, Brockton, Mass. Machine for creasing boot or shoe uppers	518,410	Apr. 17	1690	419	67	342
Knight, George W., assignor to G. Draper & Sons, Hopedale, Mass. Thread-receiver for spinning and twisting frames	525,464	Sept. 4	251	61	68	1197
Knight, Harry. (See Aikin and Knight.)						
Knight, Henry L., Le Roy, Minn., and H. E. Duncan, West Superior, Wis. Dental impression-cup	516,310	Mar. 13	935	420	66	1644
Knight, John H., Farnham, England. Vaporizer for hydrocarbon-motors	518,151	Apr. 10	1217	305	67	238
Knight, John H., Farnham, England. Hydrocarbon-motor	524,945	Aug. 21	1667	408	68	994
Knight, John L., New Alexander, Ohio. Shirt	530,594	Dec. 11	930	228	69	1401
Knight, John R., <i>et al.</i> (See Leonard, David, assignor.)						
Knight, Joseph I., Brooklyn, N. Y. Machine for applying binding-strips to books	522,423	July 3	427	109 110 111 112	68	85
Knight, Margaret E., <i>et al.</i> (See Gooding and Gondey, assignors.)						
Knight, Margaret E., <i>et al.</i> (See Steele, Herbert B., assignor.)						
Knight, Margaret E., South Framingham, assignor to herself, R. D. Evans, and J. S. Lockwood, Boston, Mass. Reel	521,413	June 12	1169	277 278	67	1426
Knight, Margaret E., South Framingham, assignor to herself, R. D. Evans, and J. S. Lockwood, Boston, Mass. Feeding attachment for sole-cutting machines	524,278	Aug. 7	521	122	68	755
Knight, Margaret E., and A. B. Harrington, South Framingham, assignors to said Knight and J. S. Lockwood, Boston, Mass. Window frame and sash	519,333	May 8	720	177	67	691
Knight, Margaret E., South Framingham, and C. S. Gooding, Brookline, assignors to said Knight, R. D. Evans, and J. S. Lockwood, Boston, Mass. Numbering mechanism	527,205	Oct. 9	857	208 209	69	175
Knight, Richard D., Providence, R. I. Advertising device	525,740	Sept. 11	730	168	68	1297
Knight, Riley, Moscow, Idaho. Thrashing-machine	529,623	Nov. 20	1970	470	69	1045
Knight, Samuel, Jr. (See Purington, Samuel F., assignor.)						
Knight, Thomas, Islington, Canada. Foot-ball-game apparatus	513,116	Jan. 23	2318	558	66	535
Knight, Walter H., Lynn, assignor to General Electric Company, Boston, Mass. Electric motor	516,818	Mar. 20	1797	425	66	1813

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Knight, Walter H., Lynn, assignor to General Electric Company, Boston, Mass. Controller for electric-railway cars	518,254	Apr. 17	1410	353	67	290
Knight, Walter H., Lynn, assignor to General Electric Company, Boston, Mass. Electric locomotive	520,787	June 5	44	10	67	1205
Knight, Walter H., Lynn, assignor to General Electric Company, Boston, Mass. Dynamo-electric machine or motor	523,668	July 31	2596	647	68	547
Knight, Walter J., Newark, N. J. Means for replacing derailed cars	526,715	Oct. 2	77	20	69	17
Knights, Richard, Snaresbrook, England. Floor	527,430	Oct. 16	1242	305	69	258
Knill, T. W. (See Spencer, William B., assignor.)						
Knipper, Joseph G. (See Knipper, Peter H. and J. G.)						
Knipper, Peter H. and J. G., assignors of one-half to S. Jenkinson and M. Butler, Rochester, N. Y. Lubricator	524,112	Aug. 7	243	56	68	706
Knittel, Andrew W., New Castle, Pa. Oil-can	528,946	Nov. 13	793	185	69	811
Knittel, John B., St. Louis, Mo. Hinge	525,712	Sept. 11	653	158	68	128-9
Knoblauch, Edward M., Toledo, Ohio. Folding bed	528,328	Oct. 30	2797	675	69	574
Knoche, J. Philip. (See Murphy, Livy D., assignor.)						
Knode, Robert S., Omaha, Nebr. Powder-blower	513,189	Jan. 23	2429	586	66	556
Knoebel, George W., et al. (See Reynolds, Joseph A., assignor.)						
Knoepfel, Jacob, Bristol, assignor to C. W. Veigel, Philadelphia, Pa. Shoe-brush	516,541	Mar. 13	1336	318	66	1717
Knöfner, Oskar, Charlottenburg, Germany. Electrolytical apparatus	522,839	July 10	1146	284	68	232
Knoll, James H., et al. (See Cavanaugh, James D., assignor.)						
Knoll, Jonas L., Lebanon, Pa. Washing-machine	530,277	Dec. 4	352	87	69	12-0
Knollmüller, Max, Milwaukee, Wis. Bowling-alley	529,392	Nov. 20	1572	374	69	972
Knop, Rhinehard B. A., Milwaukee, Wis. Pail	513,369	Jan. 23	2572	622	66	585
Knopp, August. (See Goetze and Knopp.)						
Knorr, Ludwig, Jena, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Paratyldimethylpyrazolone	516,707	Mar. 20	1621		66	1786
Knothe, Adolph C., assignor to Knothe Brothers, New York, N. Y. Suspender-plate and cast-off	514,231	Feb. 6	444	106	66	936
Knothe Brothers. (See Knothe, Adolph C., assignor.)						
Knott, Crawford M. (See Knott, William W. and C. M.)						
Knott, William W. and C. M., Oxford, N. C. Tobacco-drying apparatus	514,370	Feb. 6	666	168 169 233 234	66	978
Knottnerus, Henry E., St. Louis, Mo. Price-scale	525,910	Sept. 11	1031	233 234	68	1351
Knower, George, Greenwood, Wis. Finishing-joint in wooden walls or ceilings	517,701	Apr. 3	481	115	67	92
Knowles, Arbie P., St. Francis, Ark. Cook-stove thermometer	523,794	July 31	2821	701	68	587
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Incandescent electric lamp	516,819	Mar. 20	1798	426	66	1819
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Socket for incandescent electric lamps	516,820	Mar. 20	1799	426	66	1819
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Electric search-light	516,821	Mar. 20	1800	426 427	66	1819
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Alternating electric-arc lamp	516,822	Mar. 20	1804	427 428	66	1820
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Electric signal-lantern	516,824	Mar. 20	1808	428 429	66	1821
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Electric-arc lamp	516,826	Mar. 20	1811	430	66	1822
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Voltmeter	520,789	June 5	50	12	67	1306
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Electric-switch box	520,852	June 5	181	39	67	1230
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Ammeter	520,963	June 5	381	93	67	1267
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Voltmeter	520,964	June 5	382	93	67	1267
Knowles, Edward R., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Electric search-light	524,368	Aug. 14	739	179 180	68	814
Knowles, Edward R., and L. T. Robinson, Middletown, Conn., assignors to Schuyler Electric Company, of Connecticut. Electrical measuring-instrument	516,823	Mar. 20	1806	428	66	1821
Knowles, Edward R., Middletown, Conn., and E. H. Park, Millbury, Mass., assignors to Schuyler Electric Company, of Connecticut. Electric-arc lamp	516,825	Mar. 20	1809	429	66	1821
Knowles, Edward R., Middletown, Conn., and E. H. Park, Millbury, Mass., assignors to Schuyler Electric Company, of Connecticut. Stand for controlling electric circuits	520,788	June 5	47	10 11 12 572 573 574 575	67	1205
Knowles, John H., Philadelphia, Pa. Machine for feeding sheets of paper	531,438	Dec. 25	2392		69	1699
Knowles Loom Works. (See Bardsley, Henry, assignor.)						
Knowles Loom Works. (See Hinchins, George F., assignor.)						
Knowles, Otis F., and H. B. Miller, Oxford, Mich. Device for sharpening skates	512,382	Jan. 9	1077	262	66	215
Knowles, Thomas C., and W. J. Adams, Newton, Mass. Bucksaw-frame	522,470	July 3	509	129	68	101
Knowlton, Ephraim H. B., assignor of one-half to J. Schwalbe, West Superior, Wis. Railway-switch	527,338	Oct. 9	1082	261 262	69	215
Knowlton, Ernest J., Ann Arbor, Mich. Compound for waterproofing fabrics	517,927	Apr. 10	838		67	175
Knowlton, Matilda T. (See Knowlton, William A., assignor.)						
Knowlton, William A., assignor, by mesne assignments, to M. T. Knowlton, Rockford, Ill. Mowing-machine	523,286	July 17	1923	423	68	392
Knowlton, William A., assignor, by mesne assignments, to M. T. Knowlton, Rockford, Ill. Mowing-machine	525,219	Aug. 28	2167	529	68	1100
Knowlton, William A., assignor, by mesne assignments, to M. T. Knowlton, Rockford, Ill. Mowing-machine	525,220	Aug. 28	2169	529	68	1100
Knox, George A., Lynn, Mass. Shoe and making same	512,976	Jan. 16	2111	502	66	425
Knox, George A., Lynn, and E. E. Bean, Boston, Mass. Shoe-sewing machine	513,048	Jan. 16	2214	530 531	66	444
Knox, John T., Glasgow, Scotland. Wooden ladder	523,298	July 31	3003	747	68	622
Knubel, Herman, et al. (See Ball, Charles A., assignor.)						
Knudsen, Jacob B., Fernwood, Ill. Air-brake mechanism	525,686	Sept. 4	618	147 261 262 263 264 265	68	1264
Knudtson, Thurston L., and J. Uhri, Chicago, Ill. Machine for making box blanks	518,038	Apr. 10	1033		67	207
Knutsson, Knut E. (See Judd, Adelbert F., assignor.)						
Knüttel, Friedrich, Charlottenburg, Germany. Malting apparatus	513,467	Jan. 23	2884	709	66	644

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Kny, Richard, New York, N. Y. Surgical-ligature preparation and inclosure.....	514,558	Feb. 13	968	244	66	1053
Kobelt, Jacob, Hoboken, N. J. Embroidery.....	530,595	Dec. 11	931	229	69	1401
Kobertz, Peter L., Aix-la-Chapelle, assignor to Basse & Selve, Altena, Germany. Loom-shuttle.....	514,232	Feb. 6	445	107	66	936
Kobler, John L., Le Sueur Centre, Minn. Floor-jack.....	523,214	July 17	1804	452	68	370
Kobler-Stauder, Victor, Rorschach, Switzerland. Game apparatus.....	529,868	Nov. 27	2383	570	69	1131
Koblisch, Joseph. (See Morfoot, George A., assignor.)						
Kobos, Jacob, Chicopee, Mass. Automatic safety-guard for elevator-ways.....	529,177	Nov. 13	1180	284	69	880
Kobusch, George J. (See Weber, Moritz, assignor.)						
Kobusch, George J., <i>et al.</i> (See Sawade, Gustave C., assignor.)						
Koch, Christoph F. (See Faulhaber and Koch.)						
Koch, Edouard A., Bayou Goula, La. Bagasse-burner.....	527,001	Oct. 2	539	132	69	102
Koch, Jerry H., Lamartine, Pa. Protector for drill-ropes.....	525,605	Sept. 4	474	114	68	1240
Koch, John L., Lawrenceburg, Ind. Harness-saddle.....	523,669	July 31	2598	647	68	548
Koch, Max M. (See Erben and Koch.)						
Koebig, Julius, San Francisco, Cal. Defecating cane-juice.....	517,820	Apr. 3	670	.....	67	130
Koechl, Louis. (See Low, Hamilton F., assignor.)						
Koehler, Conrad. (See Koehler, Jacob and C.)						
Koehler, Ferdinand, Jr., Cairo, Ill. Refrigerator.....	525,021	Aug. 28	1818	443	68	1039
Koehler, Frank G., and H. G. Hartmann, St. Louis, Mo. Combined invalid's table and desk.....	525,554	Sept. 4	397	96	68	1225
Koehler, Fred W., and F. W. Marten, Chicago, Ill. Express-car attachment.....	525,713	Sept. 11	685	158	68	1289
Koehler, Jacob and C., assignors to H. E. Wollmer, Manchester, England. Hinge for step-ladders, &c.....	519,535	May 8	1094	262	67	759
Koellhofer, Alois A. (See Wiebach and Koellhofer.)						
Koenemann, Carl, Wiesbaden, Germany. Sash-holder.....	519,536	May 8	1095	263	67	759
Koenen, William, Cleveland, Ohio. Meat-cutter.....	522,424	July 3	443	112	68	88
Koenig, Morris F., assignor to Barber-Koenig Manufacturing Company, Hazleton, Pa. Device for supporting coats, vests, &c.....	528,601	Nov. 6	139	34	69	672
Koester, William. (See Kraft, John U., assignor.)						
Koeth, Christian, Suhl, Germany. Drum.....	519,914	May 15	1707	{ 416 417 }	67	885
Kohlberg, Hermann. (See Salfeld and Kohlberg.)						
Kohler, Joseph, Cincinnati, Ohio. Combination-tool for pipe-fitting.....	522,471	July 3	510	129	68	101
Köhler, Julius, Limbach, Germany. Machine for sewing looped fabrics.....	520,208	May 22	2233	{ 543 544 545 }	67	995
Köhler, Julius, Limbach, Germany. Machine for sewing looped fabrics.....	520,209	May 22	2237	{ 544 545 }	67	995
Köhler, Karl. (See Berliner, Adolf, assignor.)						
Kohlhepp, Rudolf. (See McNeil and Kohlhepp.)						
Kohlmann, Frances, New York, N. Y. Ribbon-needle.....	523,476	July 24	2263	569	68	468
Kohman, William A. (See Potteiger and Kohman.)						
Kohn, Adolf and S., assignors of one-third to L. Burger, New York, N. Y. Safety device for locking gas-cocks.....	527,206	Oct. 9	859	209	69	175
Kohn, Max. (See Bernstein and Kohn.)						
Kohn, Milton M., assignor to himself and S. M. Fischer, Chicago, Ill. Apparatus for supplying electricity for light and power purposes.....	524,983	Aug. 21	1728	{ 423 424 425 }	68	1006
Kohn, Samuel. (See Kohn, Adolf and S.)						
Kohout, Frederick. (See Kohout, Louis and F.)						
Kohout, Louis and F., St. Louis, Mo. Apparatus for dispensing beverages.....	519,537	May 8	1096	263	67	759
Kolb, Edward. (See Murphy and Kolb.)						
Kolbassieff, Engenij V., Cronstadt, Russia. Telephone.....	518,959	May 1	35	10	67	543
Kolf, Hubert, Bonn, Germany. Explosive and making same.....	521,345	June 12	1067	.....	67	1405
Koll, Benjamin S., St. Louis, Mo. Vapor heating-stove.....	520,686	May 29	3039	736	67	1161
Koll, Benjamin S., assignor, by mesne assignments, to L. B. Jones, St. Louis, Mo. Meat-broiler gas-stove.....	521,718	June 19	1711	404	67	1542
Koll, Benjamin S., assignor, by mesne assignments, to L. B. Jones, St. Louis, Mo. Gas cooking and water-heating range.....	522,903	July 10	1243	308	68	251
Koll, Gustav, assignor to I. Kaufmann & Bro., New York, N. Y. Photograph-album.....	521,569	June 19	1464	342	67	1494
Kollenberg, George A., assignor of one-half to S. L. McAdams, Owensborough, Ky. Chair.....	523,287	July 17	1925	424	68	392
Kolliker, Robert, Pittsburg, Pa. Bottling-machine.....	518,527	Apr. 17	1892	469	67	377
Koneman, William A., Chicago, Ill. Gas-making apparatus.....	520,687	May 29	3041	736	67	1161
Koneman, William A., Chicago, Ill. Sprinkler.....	530,534	Dec. 11	824	204	69	1382
Koneman, William A., assignor to Chicago Heat Storage Company, Chicago, Ill. Apparatus for utilizing producer gas as fuel for calcining limestone.....	513,945	Jan. 30	3673	904	66	828
Konetschny, John R., Brooklyn, assignor to E. P. Gleason Manufacturing Company, New York, N. Y. Electric-light fixture.....	529,654	Nov. 20	2023	485	69	1054
Konigslow, Otto, Cleveland, Ohio. Basket-bail.....	513,512	Jan. 30	2970	{ 730 731 }	66	695
Konigslow, Otto, Cleveland, Ohio. Pneumatic dispatch system.....	525,606	Sept. 4	475	114	68	1240
Konow, Ludwig, Bergen, Norway. Apparatus for manufacturing artificial fuel.....	529,278	Nov. 13	1354	325	69	911
Koons, Sidney O. (See Stephens and Koons.)						
Kopfer, William P., Crowley, La. Combined beater and carder for cotton-gins.....	512,445	Jan. 9	1208	292	66	240
Kopke, Frank. (See McPhail and Kopke.)						
Kopp, Albert F. (See Pomeroy, Henry R., assignor.)						
Kopp, Frank, Cedar Rapids, Iowa. Fire-escape.....	522,990	July 17	1406	351	68	297
Korb, Charles F. (See Korb, John A. and C. F.)						
Korb, John A. and C. F., assignors of one-fourth to C. Long, Altoona, Pa. Carpet-fastener.....	518,193	Apr. 10	1309	328	67	256
Korbel, Joseph. (See Hollingsworth and Korbel.)						
Kordick, John E., Bridgewater, Iowa. Watering-trough.....	513,513	Jan. 30	2972	731	66	695
Korff, Francis J., St. Johns, Mich. Elevated railway.....	520,163	May 22	2156	525	67	980
Kornemann, William F., New York, N. Y. Eyeglasses.....	521,933	June 26	2103	504	67	1632
Kornobis, Theodore. (See Machalski, Florentin J., assignor.)						
Kortright, George W., Sioux City, Iowa. Combination sprocket-wheel.....	524,443	Aug. 14	833	204	68	831
Kos, Albert J., <i>et al.</i> (See Winters, John W., assignor.)						
Koss, Louis. (See Darnell and Koss.)						
Koss, Louis, Indianapolis, Ind. Reversible traversing movement.....	520,827	June 5	129	28	67	1221
Köster, Carl, Cologne, Germany. Manufacturing veneers.....	523,582	July 24	2436	.....	68	501
Kostmayer, John G., <i>et al.</i> (See Buckley, John P., assignor.)						
Köstner, Johann, Fürth, Germany. Writing-tablet.....	524,805	Aug. 21	1432	350	68	954
Kottmann, John, Jeannette, Pa. Rocking-chair.....	524,279	Aug. 7	522	132	68	755
Kotts, Frederick A., Manchester, Mich. Dental tool.....	514,941	Feb. 20	1598	401	66	1188
Koulms, Julius W. (See Beck and Koulms.)						
Kozlowski, Frank M. (See Rucinski and Kozlowski.)						
Krabol, Olaus O., and C. Bostad, assignors to Automatic Folding Bed Company, Chicago, Ill. Revolving furniture.....	531,538	Dec. 25	2579	617	69	1734

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Kraft, Friedrich, and A. Roos, Heidelberg, Germany. Making ether.....	516,766	Mar. 20	1720	-----	66	1804
Kraft, Henry P. (See Schrader and Kraft.)						
Kraft, John U., assignor of one-half to W. Koester, Milwaukee, Wis. Wrench.....	514,477	Feb. 13	839	213	66	1029
Kraft, John U., assignor of one-half to H. Rave, Milwaukee, Wis. Bung-extracting machine.	519,021	May 1	133	33	67	561
Kragen, Moritz, Berlin, Germany. Paper-file and the like provided with pins and devices for securing papers thereon.....	513,331	Jan. 23	2656	644	66	601
Kragen, Moritz, Berlin, Germany. Bung.....	518,610	Apr. 24	2027	504	67	416
Krah, Armin, Berlin, Germany. Embossing backs of books.....	515,051	Feb. 20	1771	{ 446 } 447	{ 66 } 66	{ 1218 } 1218
Krah, Armin, Berlin, Germany. Letter-file.....	515,052	Feb. 20	1773	447	66	1218
Krah, Armin, Berlin, Germany. Boreling-shears for cardboard.....	524,638	Aug. 14	1154	{ 283 } 284	{ 68 } 68	{ 891 } 891
Krahe, Carl, Rossville, N. Y., assignor to Ceramic Paving Stone Company, of New York. Brick-kiln.....	519,677	May 8	1326	320	67	800
Krais, Paul. (See Krekeler and Krais.)						
Kralik Sohn, Wilhelm. (See Spitzer, Alfons, assignor.)						
Kramer, George W., Peoria, Ill. Car-brake.....	522,665	July 10	837	{ 208 } 209	{ 68 } 68	{ 177 } 177
Kramer, George W., assignor to Hart Weigher Company, Peoria, Ill. Steering-gear for traction-engines.....	520,688	May 29	3043	737	67	1161
Kramer, Henry, San Francisco, Cal. Leaf-turner.....	527,997	Oct. 23	2230	538	69	456
Kramer, Homer D., Pittsburg, Pa. Fire-extinguishing apparatus.....	530,431	Dec. 4	613	153	69	1327
Kramer, Otto E. H., St. Louis, Mo. Curtain-holder.....	515,000	Feb. 20	1684	423	66	1203
Kramer, Weinman & Co. (See Kramer and Weinman, assignors.)						
Kramer, William F., and C. F. Weinman, assignors to Kramer, Weinman & Co., Dayton, Ohio. Fifth-wheel.....	526,494	Sept. 25	2060	490	68	1567
Krank, Albert, Taipale, Finland. Production of high-speed rotary motion for centrifugal or other machines.....	531,539	Dec. 25	2582	{ 617 } 618	{ 69 } 69	{ 1735 } 1735
Krank, Alfred J., St. Paul, Minn. Joint for shears.....	522,904	July 10	1218	309	68	252
Krantz, Felix C., assignor to E. F. Friese and J. L. K. von Puttkamer, Dresden, Germany. Folding or collapsible model.....	524,855	Aug. 21	1520	{ 371 } 372	{ 68 } 68	{ 969 } 969
Kranz, Hugo, <i>et al.</i> (See Heisler, Charles L., assignor.)						
Kraetz, John, assignor of one-half to J. H. Pfister, Baltimore, Md. Transferring cable-cars at intersecting points.....	520,364	May 22	2499	605	67	1046
Kraupp, Charles F., assignor of one-half to E. G. Bruckman, St. Louis, Mo. Coin holding and delivering device.....	530,997	Dec. 18	1601	381	69	1536
Kraus, Charles J. (See Lehman and Kraus.)						
Kraus, John, trustee, <i>et al.</i> (See Häfner, Carl, assignor.)						
Kraus, Peter, Vienna, Austria-Hungary. Method of and apparatus for driving tunnels.....	512,037	Jan. 2	513	122	66	98
Krause, Arthur, Jersey City, N. J. Structural metal-work.....	515,963	Mar. 6	365	86	66	1521
Krause, Arthur, Jersey City, N. J. Structural metal-work.....	522,075	July 17	1540	365	68	332
Krause, Arthur E., Jersey City, N. J. Anchor-plate for beams.....	514,151	Feb. 6	290	70	66	908
Krause, Arthur E., Jersey City, N. J. Metallic beam, girder, post, &c.....	522,736	July 10	972	242	68	200
Krause, James B., and R. H. Crosby, Williamsport, Pa. Fender for cars or locomotives.....	521,503	June 19	1352	314	67	1475
Krause, James E. (See Knauss and Krause.)						
Krausbaer, George J., Cleveland, Ohio. Oilier.....	529,921	Nov. 27	2467	594	69	1145
Kraut, Carl, Washington, D. C. Luminous paint.....	518,320	Apr. 17	1521	-----	67	310
Kraut, Julius, Munich, Germany. Apparatus for supporting children.....	530,929	June 5	334	81	67	1257
Krebs, August E., St. Paul, Minn. Combined tape-measure and square.....	530,111	Dec. 4	62	16	69	1227
Krebs, Hermann, assignor to himself and N. Bose, San Pedro, Cal. Wrench.....	520,689	May 29	3044	737	67	1162
Kregel, Louis G., St. Louis, Mo. Combined trocar and embalming-needle.....	519,635	May 8	1261	303	67	788
Kregel, Louis G., St. Louis, Mo. Coffin-handle.....	519,678	May 8	1328	321	67	800
Kregel, Louis G., St. Louis, Mo. Shoe.....	524,946	Aug. 21	1608	408	68	995
Kregel, Louis G., St. Louis, Mo. Shoe.....	526,626	Sept. 25	2260	541	68	1605
Kregel, Louis G., St. Louis, Mo., assignor to W. C. Langenau, Cleveland, Ohio. Coffin-lid fastening and hinge.....	523,041	July 17	1493	371	68	313
Kreh, Ernest C., Jr., Philadelphia, Pa. Window and insect screen.....	518,069	Apr. 10	1091	275	67	215
Krehbiel, Adolph J., and G. A. Hege, Halstead, Kans. Automatic fire-lighter.....	527,698	Oct. 16	1682	405	69	340
Krehbiel, John, Cleveland, Ohio. Seat for railway-cars.....	515,832	Mar. 6	162	39	66	1483
Krehbiel, John, Cleveland, Ohio. Platform-gate for cars.....	519,066	May 1	219	51, 52	67	578
Krehbiel, John, Cleveland, Ohio. Ventilator for railway passenger-cars.....	523,167	July 17	1727	432	68	356
Krehbiel, John, Cleveland, Ohio. Railway passenger-car.....	526,156	Sept. 18	1449	338	68	1440
Krehbiel, John, Cleveland, Ohio. Car-platform.....	528,170	Oct. 30	2519	610	69	525
Kreidler, Anton, Stuttgart, Germany. Spool and support therefor.....	521,241	June 12	865	203	67	1367
Kreinsen, August F. W., Hamburg, Germany. Process of and apparatus for melting metals by means of electricity.....	513,270	Jan. 23	2573	622	66	586
Kreis, Emil, <i>et al.</i> (See Hauser, Gottfried, assignor.)						
Kreisher, Solomon, Snyderstown, Pa. Pipe-wrench.....	523,356	July 24	2046	514	68	432
Kreitz, John, assignor of two-thirds to J. A. Buel, Akron, Ohio. Coal or coke fork.....	526,109	Sept. 18	1372	320	68	1425
Krekeler, Karl, and P. Krais, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue dye.....	518,458	Apr. 17	1779	-----	67	358
Krentz, Henry, St. Louis, Mo. Steam-engine for air-pumps.....	522,065	June 26	2337	561	67	1674
Kretsinger, Frederick S., Fort Madison, Iowa. Manufacture of pitchforks.....	524,719	Aug. 21	1293	316	68	928
Kretzmeier, Lewis E., Lawrenceville, Ind. School seat and desk.....	530,950	Dec. 18	1520	360	69	1522
Kreutzer, Eduard, Wiesbaden, Germany. Color-harmonizer.....	513,399	Jan. 23	2766	674	66	622
Krewson, Samuel A., Pensauken, N. J. Jack for heel-nailing machines.....	514,852	Feb. 13	1463	367	66	1148
Krichbaum, George A., Youngstown, Ohio. Paint-brush.....	517,868	Apr. 10	737	185	67	156
Krieger, John W., Danville, Pa. Coal-scuttle.....	524,764	Aug. 21	1366	333	68	941
Kringel, Frank W., Los Angeles, Cal. Action for pianos.....	517,951	Apr. 10	880	{ 220 } 221	{ 67 } 67	{ 182 } 182
Krix, Richard, Dresden, Germany. Water-filtering apparatus, protector against tube-breaking, and self-active closing apparatus.....	523,815	July 31	2857	709	68	594
Kroeber, Florence, New York, N. Y. Apparatus for adjusting the beat of pendulum clocks.	526,399	Sept. 25	1886	448	68	1536
Krohn, Carl. (See Hoffmann and Krohn.)						
Krohn, Reinhold, Sterkrade, Germany. Table-knife.....	515,777	Mar. 6	85	20	66	1469
Kroll, August, Leopolis, Wis. Rain-water cut-off.....	524,113	Aug. 7	244	57	68	706
Kropf, Paul, assignor of one-half to A. Gruell, Chicago, Ill. Manufacturing beer.....	528,374	Oct. 30	2874	696	69	588
Krouse, Andrew. (See Mosman, Charles F., assignor.)						
Krouse, Charles C. (See Krouse, Cleon E., assignor.)						
Krouse, Cleon E., assignor of one-half to C. C. Krouse, Williamsport, Pa. Back-band buckle.	512,038	Jan. 2	517	122	66	99
Krueger, George, Johnstown, Pa. Measuring and registering device.....	531,047	Dec. 18	1691	{ 401 } 402	{ 69 } 69	{ 1553 } 1553
Krueger, Herman P. D., Blooming Prairie, Minn. Belt-tightener.....	530,278	Dec. 4	355	88	69	1280
Krueger, John F., Newark, N. J. Charring-tool for ornamenting wood, &c.....	522,328	July 3	262	69	68	53

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Krueger, Samuel, Newark, N. J. Spring-motor.	529,074	Nov. 13	1000	240	69	847
Krueger, Theodore F., New York, N. Y. Combined paper-weight, pen-rack, and calendar.	528,545	Nov. 6	38	10	69	653
Krueger, William B. (See Schulte, Anton, assignor.)						
Kruger, Edward H., Elizabeth City, N. C. Shingle-planing machine.	530,695	Dec. 11	1104	268	69	1431
Krüger, Reinhold, Berlin, Germany. Joint-making packing.	530,694	Dec. 11	1103	268	69	1430
Krum, Hermann, Goeppingen, Germany. Making artificial leather.	525,985	Sept. 11	1158		68	1375
Krumbeck, William, Brooklyn, N. Y. Tenpin.	514,323	Feb. 6	600	151	66	965
Krumscheid, Peter, assignor of one-half to P. J. Duggan, Boston, Mass. Pneumatic bicycle-tire.	524,280	Aug. 7	523	123	68	756
Krupicka, Frank, Milligan, Nebr. Wire-reel.	512,720	Jan. 16	1641	394	66	337
Krupp, Firm of Frederick. (See Gross and Pohlitz, assignors.)						
Kruse, Edward W., Higginsville, Mo. Straw-stacker.	513,400	Jan. 23	2767	675	66	622
Krutsch, Charles A., Logansport, Ind. Device for operating jail-cell doors.	527,752	Oct. 16	1768	426	69	356
Krutsch, Willis W., Coffeyville, Kans., assignor of one-half to L. H. Stevens. Buggy-top support.	525,986	Sept. 11	1158	263	68	1375
Kryger, Henry H., Minneapolis, Minn. Snow-plow.	520,021	May 15	1883	461	67	916
Kubach, Charles D., Baltimore, Md. Metal-plated lumber.	514,231	Feb. 6	446	107	66	936
Kuchenmeister, Emil, assignor to Siemens & Halske, Berlin, Germany. System of electrical distribution with storage-batteries.	530,432	Dec. 4	616	153	69	1328
Kuck, John J., Hamburg, Germany. Kettle.	523,532	July 24	2363	593	68	487
Kuehler, August, Sandusky, Ohio. Car-mover.	528,171	Oct. 30	2521	610	69	525
Kuechler, Emil F., and H. Starck, St. Louis, Mo. Machine for polishing table-knives, &c.	518,148	Apr. 10	1212	304	67	237
Kuehn, Charles L., St. Louis, Mo. Adjustable rack for stretching lace curtains, &c.	520,690	May 29	3046	737	67	1162
Kuehne, Albert, deceased, St. Louis, Mo.; E. and A. Kuehne, executors. Bushing for barrels.	518,194	Apr. 10	1310	328	67	256
Kuehne, Emma, <i>et al.</i> , executors. (See Kuehne, Albert.)						
Kuentzler, Richard, Philadelphia, Pa. Banjo.	523,042	July 17	1494	372	68	313
Kuentz, Herman H., Milwaukee, Wis. Sham-bolster frame.	512,886	Jan. 16	1962	466	66	390
Kuersten, Hugo R., assignor of one-half to H. Michel, Chicago, Ill. Filter.	515,833	Mar. 6	162	40	66	1484
Kuersten, Hugo R., Chicago, Ill., assignor to himself, A. J. Pauli, and P. Seidl, Menominee, Mich. Street or station indicator.	513,117	Jan. 23	2319	558	66	535
Kühlewien, Albert, Berlin, Germany. Manufacture of asbestos cement, &c.	530,645	Dec. 11	1024		69	1417
Kuhlmann, Elenore, <i>et al.</i> (See Kuhlmann, Henry F., assignor.)						
Kuhlmann, Henry F., assignor to E. Kuhlmann and J. R. Barth, Indianapolis, Ind. Split pulley.	513,118	Jan. 23	2322	559	66	536
Kuhn, George P., Brookside, Ill. Corn-planter.	518,459	Apr. 17	1780	442	67	358
Kuhner, Louis, Decatur, Ill. Incubator.	514,084	Feb. 6	172	40	66	886
Kuhns, William M., New Carlisle, Ohio. Tobacco-planter.	520,187	May 22	2199	535	67	988
Kukkuck, Frederick, assignor to Kukkuck Two Ply Trunk Top Company, St. Louis, Mo. Trunk-top.	513,470	Jan. 23	2889	712	66	645
Kukkuck Two Ply Trunk Top Company. (See Kukkuck, Frederick, assignor.)						
Kulage, Joseph J., St. Louis, Mo. Brick-machine.	516,375	Mar. 13	1056	251	66	1665
Kulage, Joseph J., St. Louis, Mo. Brick-machine.	516,376	Mar. 13	1059	252	66	1665
Kulage, Joseph J., St. Louis, Mo. Brick or tile machine.	516,377	Mar. 13	1060	252	66	1665
Kulage, Joseph J., St. Louis, Mo. Manufacturing brick.	516,378	Mar. 13	1063		66	1666
Kull, Alfred J., New Haven, Conn. Meat-chopping machine.	519,000	May 1	101	24	67	555
Kundtz, Theodor, Cleveland, Ohio. Sewing-machine cabinet.	524,090	Aug. 7	205	46, 47	68	699
Kundtz, Theodor, Cleveland, Ohio. Sewing-machine table. (Reissue)	11,453	Nov. 13	1476	354	69	935
Kunkle, Erastus B., assignor to himself and W. D. Bostick, Fort Wayne, Ind. Pop safety-valve and muffler.	524,208	Aug. 7	414	98	68	737
Kunkle, John P. (See Blosser and Kunkle.)						
Künnecht, Johann S., Leipsic, Germany. Paddle-wheel boat.	518,255	Apr. 17	1412	353	67	291
Kunstman, William H. R., assignor to Columbian Pottery and Brick Kiln Company, Chicago, Ill. Kiln for burning earthenware.	519,814	May 15	1549	379	67	855
Kunz, John L., Milwaukee, Wis. Machine for finishing gears.	520,995	June 5	436	104	67	1276
Kunze, Charles, Newark, N. J. Lathe for turning irregular forms.	518,611	Apr. 24	2027	504	67	417
Kunze, Joseph G. (See McChesney and Kunze.)						
Kupferle, John C., St. Louis, Mo. Last.	519,067	May 1	220	52	67	578
Kuphal, Otto, New York, N. Y. Apparatus for refrigerating.	530,535	Dec. 11	826	205	69	1383
Küpper, Lambert, Aix-la-Chapelle, Germany. Construction of walls.	528,636	Nov. 6	212	51	69	684
Kursheedt Manufacturing Company. (See Groebli, Joseph A., assignor.)						
Kurt, Jacob. (See Kurt, Johann and J.)						
Kurt, Johann and J., Richwood, Ohio. Corn-planter.	518,960	May 1	37	10	67	543
Kurtis, George A., Erie, Pa. Stovepipe attachment.	523,795	July 31	2822	701	68	588
Kurtz, Clinton J., Salem, Oreg. Fruit-drier.	515,343	Feb. 27	2265	561	66	1323
Kurtz, George G., <i>et al.</i> (See Glenn, John H., assignor.)						
Kurtz, John H., <i>et al.</i> (See Glenn, John H., assignor.)						
Kurtz, Samuel E., Greenfield, Iowa. Elevator and dump.	517,702	Apr. 3	482	115	67	92
Kusel, David A., St. Louis, Mo. Telephone-transmitter.	531,194	Dec. 18	1958	465	69	1602
Küssner, Paul. (See Hossfeld and Küssner.)						
Küzel, Hans, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Naphthol trisulfonic-acid monamid.	511,898	Jan. 2	291		66	56
Kwis, Joseph J., assignor to Adams Brothers Company, Findlay, Ohio. Steam-actuated valve.	518,846	Apr. 24	2434	603	67	488
Kyle, James A. (See Edmonds and Kyle.)						
Kynoch, Charles, St. Ignace, Mich. Truck for moving heavy bodies.	520,319	May 22	2416	588	67	1029
L. C. Billings Company. (See Billings, Louis C., assignor.)						
L. W. Pond Machine Company. (See Wood, Aurin, assignor.)						
L. Wolff Manufacturing Company. (See Clifford, John, assignor.)						
L. Wolff Manufacturing Company. (See Wolff, John F., assignor.)						
La Baw, George W., Bayonne, N. J. Cigar-lighter.	526,495	Sept. 25	2062	490	68	1567
La Belle, Charles H., Salt Lake City, Utah Ter. Lock.	529,348	Nov. 13	1473	354	69	935
La Burt, John, assignor of one-half to J. H. Watson, Brooklyn, N. Y. Car-coupling.	518,256	Apr. 17	1413	354	67	291
La Casse, Henry. (See Wile and La Casse.)						
La Casse, Henry, Rochester, N. Y. Antifriction ball-bearing.	518,321	Apr. 17	1522	380	67	310
La Casse, Henry, Rochester, N. Y. Bottle-washer.	518,322	Apr. 17	1526	381	67	311
La Casse, Henry, Rochester, N. Y. Bicycle.	518,411	Apr. 17	1692	419	67	342
La Casse, Henry, Rochester, N. Y. Finger-nail trimmer.	523,708	July 31	2672	420	68	560

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La Casse, Henry, Rochester, N. Y. Bicycle.....	524,389	Aug. 14	742	$\left\{ \begin{array}{l} 180 \\ 181 \\ 182 \end{array} \right.$	68	814
La Chicotte, Henry A. and W. B., New York, N. Y. Machine for making matches	521,029	June 5	458	$\left\{ \begin{array}{l} 116 \\ 117 \end{array} \right.$	67	1285
La Chicotte, Walter B. (See La Chicotte, Henry A. and W. B.)						
La Compagnie Francaise de Materiel de Chemins de Fer. (See Bonnefond, Charles, assignor.)						
La Croix, Joseph, Milwaukee, Wis. Separating and purifying machine.....	523,215	July 17	1805	453	68	370
La Drière, Joseph L., and S. I. Stone, Helena, Mont. Railway-switch	525,423	Sept. 4	181	46	68	1184
La Fetra, George H., <i>et al.</i> (See Fryer, Robert M., assignor.)						
La Flenr, Joseph F., <i>et al.</i> (See Walker, William E., assignor.)						
La Fountain, Henry, Cleveland, Ohio. Counting attachment for printing-presses.....	521,318	June 12	1005	236	67	1393
La Foy, Adolphus M., Little Falls, N. J. Thill-support.....	513,476	Jan. 9	1261	304	66	250
La France, Truckson S., Elmira, N. Y. Pump-valve.....	526,975	Oct. 2	499	122	69	93
La Pierre, Frank H., East Orange, N. J. Cigar-tip cutter.....	513,581	Jan. 30	3097	761	66	719
La Pierre, Frank H., East Orange, N. J. Corkscrew.....	518,005	Apr. 10	987	246	67	199
La Pointe, Thomas T., J. H. Flanagan, and C. A. Thompson, New Haven, Conn. Electric conduit.....	530,951	Dec. 18	1521	360	69	1522
La Rue, Abram, Danville, Pa. Car-coupling.....	521,376	June 12	1114	263	67	1415
La Rue, Silas H., Trenton, N. J. Hot-air heating apparatus	516,017	Mar. 6	459	106	66	1537
La Shells, Alfred F., Biggs, Cal. Railway-rail	528,950	Nov. 13	798	186	69	812
La Société Anonyme, de La Serrure Sans Clef. (See Bois, Jules, assignor.)						
La Veck, Limery, New York, N. Y. Horseshoe.....	516,494	Mar. 13	1251	299	66	1702
Laass, Emil and J. J., Syracuse, N. Y. Elliptical spring	517,106	Mar. 27	2308	544	66	1933
Labadie, James R., Ecorse, Mich. Trolley-oiling device	513,067	Jan. 16	2241	*539	66	450
Labatsille, Jacques, and J. J. Graff, San Francisco, Cal. Gas-engine	517,821	Apr. 3	671	167	67	130
Laborde, André. (See Philibert, Perreau, and Laborde.)						
Lacavalerie, Sebastian, Caracas, Venezuela. Marine vessel	516,395	Mar. 13	1087	258	66	1670
Lacey, Francis H. (See Blake and Lacey.)						
Lacey, Nicholas E. (See Snowman and Lacey.)						
Lacey, Thomas, Fort Benton, Mont. Snap-hook	525,607	Sept. 4	478	114	68	1241
Lach, Julius, Magdeburg-Neustadt, Germany. Apparatus for refining sugar	518,152	Apr. 10	1218	306	67	239
Lachmann, Emil, Berlin, Germany. Recorder of speed of governors of motive-power engines	526,321	Sept. 18	1737	410	68	1496
Lacke, George F. (See Abshier and Lacke.)						
Laclede Car Company. (See Gerbig, August D., assignor.)						
Lacôte, Jean A., Paris, France. Machine for decorticating china-grass, &c.....	524,829	Aug. 21	1476	$\left\{ \begin{array}{l} 360 \\ 361 \end{array} \right.$	68	962
Lacour, Ernest F., Genoa, Italy. Ore-separator.....	514,478	Feb. 13	841	214	66	1029
Lacy, Benjamin T. (See Storer and Lacy.)						
Lacy, George W., Kingston, N. Y. Journal-box	516,311	Mar. 13	936	220	66	1644
Lacy, Harry. (See Chambers, David S., assignor.)						
Ladd, Sherman W., Somerville, Mass. Lasting-machine	523,939	July 31	3090	$\left\{ \begin{array}{l} 769 \\ 770 \end{array} \right.$	68	638
Ladd, Story B., assignor of one-half to G. Hughes, Washington, D. C. Mortar-mill.....	524,683	Aug. 14	1220	298	68	902
Lade, Johann O., Merrill, Mich. Spoke-tenoning machine	521,214	June 12	817	192	67	1358
Laffer, Walter L., Cleveland, Ohio. Fork	512,721	Jan. 16	1642	395	66	337
Laffer, William L., Cleveland, Ohio. Fork	517,461	Apr. 3	82	17	67	18
Laflamme, Andrew, Nashua, N. H. Vehicle for spreading sand	525,768	Sept. 11	776	180	68	1306
Lafrance, Alfred, Marlborough, Mass. Corn-popping apparatus	525,347	Sept. 4	40	10	68	1158
Lafrénère, Joseph C., Boston, Mass. Antifriction-bearing	512,477	Jan. 9	1262	304	66	250
Laganassa, Willfred, Ford River, Mich. Automatic gate.....	523,985	Aug. 7	28	7	68	668
Lagerman, Alexander, Jr. (See Lagerman, Johannes E., assignor.)						
Lagerman, Johannes E., Husqvarna, Sweden, assignor to A. Lagerman, Jr., New York, N. Y. Lubricator.....	515,590	Feb. 27	2661	$\left\{ \begin{array}{l} 660 \\ 661 \end{array} \right.$	66	1398
Lagerwall, Alexander F. (See White and Lagerwall.)						
Lahan, Edward J., Quincy, Ill. Car-coupling.....	517,753	Apr. 3	570	140	67	110
Lahann, Henry, Traver, Cal. Anti-rooter	516,866	Mar. 20	1879	444	66	1835
Lahann, Henry, Traver, Cal. Releasing device	519,815	May 15	1552	300	67	856
Lahl, Henry A., Milwaukee, Wis. Neck-protector	526,534	Sept. 25	2116	507	68	1578
Laib, Christian F., New London, Wis. Railway	528,884	Nov. 6	660	$\left\{ \begin{array}{l} 158 \\ 159 \end{array} \right.$	69	767
Laidlaw, Robert J., Hamilton, Canada. Machine for gaining	515,912	Mar. 6	280	66	66	1506
Laidlaw, William A., Kansas City, Mo. Bale-tie machine	512,617	Jan. 9	1466	354	66	288
Lain, James M., Bay City, Mich. Water-heater.....	526,496	Sept. 25	2064	491	68	1568
Laird, Fred C., <i>et al.</i> (See Winter, Alexander W., assignor.)						
Laird, Robert H., Toronto, Canada, assignor to W. H. Laird, New York, N. Y. Furnace.....	515,867	Mar. 6	214	50	66	1493
Laird, Robert H., Chicago, Ill., assignor to W. H. Laird, New York, N. Y. Heater.....	523,477	July 24	2265	$\left\{ \begin{array}{l} 569 \\ 570 \end{array} \right.$	68	468
Laird, Robert W. (See Sweeney and Laird.)						
Laird & Sweeney Manufacturing Company. (See Sweeney and Laird, assignors.)						
Laird, William H. (See Edwards and De Neal, assignors.)						
Laird, William H. (See Laird, Robert H., assignor.)						
Laird, William H. (See Watson, George A., assignor.)						
Lajoie, Napoleon, assignor of one-half to W. H. Smith, Holyoke, Mass. Paper-drying apparatus	512,478	Jan. 9	1263	304	66	251
Lake, Amariah, Pleasantville, N. J. Theater appliance.....	520,336	May 22	2240	555	67	1003
Lake, Amariah, Pleasantville, N. J. Illusory apparatus	523,357	July 24	2047	514	68	432
Lake, George W., assignor of one-half to C. H. Rastade, Monticello, Iowa. Door or window clamp	514,085	Feb. 6	173	41	66	886
Lake, Leon, and G. P. Rishel, assignors to C. O. Rose and G. P. Rishel, Hornellsville, N. Y. Mechanism for weaving wire webs.....	514,324	Feb. 6	601	$\left\{ \begin{array}{l} 151 \\ 152 \end{array} \right.$	66	965
Lake, William B. (See Wollard, Isaac B., assignor.)						
Lalonde, Joseph, Winnipeg, Canada. Syringe.....	513,238	Jan. 23	2512	605	66	573
Lamar, George W., <i>et al.</i> (See Warrant, Constantine B., assignor.)						
Lamar, Lucius Q. C., Oxford, Miss. Car-fender.....	522,905	July 10	1219	309	68	252
Lamb, A. S., <i>et al.</i> (See Longmiller, Benjamin F., assignor.)						
Lamb, Alexander R., Fencion Falls, Canada. Reversing-gear for steam-engines.....	514,479	Feb. 13	843	214	66	1030
Lamb, Edward T. (See Williams, Frank A., assignor.)						
Lamb, George B., assignor to Waterbury Machine Company, Waterbury, Conn. Wire-drawing machine	525,348	Sept. 4	42	11	68	1158
Lamb, Jesse M., Mooreland, and J. C. Hardesty, Millville, Ind. Vaginal syringe	526,353	Sept. 18	1788	424	68	1505

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Lamb Knitting Machine Manufacturing Company <i>et al.</i> (See Perkins, Albert, assignor.)						
Lamb, Laurence. (See Engstfeld, Augustin C. L., assignor.)						
Lamb, Levi L., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. } Grinding or facing machine.....	526,238	Sept. 18	1591	{ 373 374 }	68	1466
Lamb Manufacturing Company. (See Buxton, Willard H., assignor.)						
Lamb Manufacturing Company. (See Perkins, Albert, assignor.)						
Lamb, Richard, New York, N. Y. Logging system.....	523,216	July 17	1810	{ 453 454 }	68	371
Lamb, Spence H., Jr. (See Lamb, Walter and S. H., Jr.)						
Lamb, Thomas G., Homestead, assignor of one-half to G. F. Pitts, Duquesne, Pa. Auto- } matic fire-trap for elevator-shafts.....	514,423	Feb. 6	736	{ 187 188 }	66	992
Lamb, Thomas G., and J. H. McClure, Homestead, assignors to Automatic Fire Door Com- } pany, Limited, Pittsburg, Pa. Elevator-shaft gate.....	526,237	Sept. 18	1589	373	68	1465
Lamb, Walter and S. H., Jr., Memphis, Tenn. Lock attachment for bicycles.....	518,323	Apr. 17	1530	381	67	312
Lamb, William R. (See Still, Oliver H., assignor.)						
Lamb, William R., East Greenwich, R. I. Fishing apparatus.....	515,001	Feb. 20	1685	423	66	1203
Lamberson, Frank J., <i>et al.</i> (See Crosby, Frank P., assignor.)						
Lambert, Alonzo, Brooklyn, assignor to J. B. Bowden & Co., New York, N. Y. Station- } indicator.....	524,421	Aug. 14	801	196	68	825
Lambert, George A., Union City, Ohio. Core-box.....	517,387	Mar. 27	2808	655	66	2030
Lambert, George A., Union City, Ohio. Cap for bolts or screws.....	531,465	Dec. 25	2461	586	69	1711
Lambert, James E. (See Lambert, James R. and J. E.)						
Lambert, James R. and J. E., Indianapolis, Ind. Window-fixture.....	517,952	Apr. 10	883	221	67	182
Lambert, John W., Union City, Ind. Carburetor.....	517,344	Mar. 27	2700	634	66	2009
Lambert, Kate G., Boston, Mass. Pin-curl.....	517,107	Mar. 27	2309	544	66	1933
Lambert, Richard C., assignor of one-half to M. B. Faxon, Holbrook, Mass. Horseshoe- } nail machine.....	530,596	Dec. 11	933	229	69	1402
Lambert, William A., Evergreen, Ohio. Wire-stretching machine.....	519,456	May 8	931	225	67	730
Lambeth, John E. (See Miller and Lambeth.)						
Lambie, William A. (See Blanchard and Lambie.)						
Lambie, William T., Los Angeles, Cal. Machine for measuring water from lakes, &c.....	514,559	Feb. 13	969	244	66	1054
Lamboy, Philip, Fonda, N. Y. Machine for removing stems from broom-corn.....	520,568	May 29	2833	{ 683 684 }	67	1123
Lambright, Hamilton M., Akron, Ohio. Adjustable garment-pattern.....	524,966	Aug. 21	1696	416	68	1000
Lamena, Pierre. (See Décombe and Lamena.)						
Lamey, Marion B. (See Curry, William F., assignor.)						
Lamm, George D., Ackley, Iowa. Hay-rake.....	520,320	May 22	2417	588	67	1029
Lamm, George D., and W. Sicard, Ackley, Iowa. Band-cutter and feeder.....	517,754	Apr. 3	571	{ 140 141 }	67	111
Lamm, Jean, Kesselstadt, assignor to M. Hasselmann, Frankfort-on-the-Main, Germany. } Revolver-cylinder.....	522,472	July 3	510	130	68	102
Lamme, Benjamin G. (See Lange and Lamme.)						
Lamme, Benjamin G. (See Schmid and Lamme.)						
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, } Pittsburg, Pa. Electric motor for street-cars.....	513,401	Jan. 23	2769	676	66	622
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, } Pittsburg, Pa. Method of and means for starting synchronous motors.....	519,862	May 15	1629	396	67	870
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, } Pittsburg, Pa. System of electrical distribution.....	520,965	June 5	383	93	67	1267
Lamme, Benjamin G., assignor to Westinghouse Electric and Manufacturing Company, } Pittsburg, Pa. Device for protecting separately-excited generators.....	527,066	Oct. 9	641	155	69	135
Lamphere, George F., <i>et al.</i> (See Magee, James, assignor.)						
Lamping, John F., Cincinnati, Ohio. Washbasin.....	519,287	May 1	623	152	67	658
Lamping, Joseph A. (See Coe, Lewis D., assignor.)						
Lamplough, Arthur, London, England. Coupling-link.....	526,627	Sept. 25	2261	541	68	1665
Lamplough, Frederick, New York, N. Y. Vending-machine.....	529,655	Nov. 20	2025	485	69	1054
Lamplough, Frederick, New York, N. Y., assignor of one-half to T. P. Borden, Englewood, } N. J. Automatic steam and drain trap.....	515,293	Feb. 20	2171	539	66	1294
Lamplough, Frederick, New York, N. Y., assignor of one-half to T. P. Borden, Englewood, } N. J. Automatic drain-valve and steam-trap.....	515,294	Feb. 20	2173	{ 539 540 }	66	1294
Lamplough, Frederick, New York, N. Y., assignor to T. P. Borden, Englewood, N. J. Valve- } motion.....	524,967	Aug. 21	1698	416	68	1000
Lamplough, Frederick, assignor to J. Wielar, New York, N. Y. Regenerative siphon.....	530,536	Dec. 11	829	205	69	1383
Lamplough, Frederick, assignor to Gold Car Heating Company, S. Davis, and J. Wielar, } New York, N. Y. Trap.....	528,727	Nov. 6	353	86	69	711
Lanpp, Jesse T., assignor of one-half to D. B. and S. W. Stewart, Apopka, Fla. Car-coup- } ling.....	523,403	July 24	2128	534	68	446
Lamson Consolidated Store Service Company. (See Smyth, Charles, assignor.)						
Lamson & Sessions Company. (See Wilbur, William R., assignor.)						
Lancaster, Aaron, Princeton, Iowa. Wind-motor.....	523,217	July 17	1812	454	68	372
Lancaster, Charles P., Jonesborough, Ind. Wagon-bed.....	530,537	Dec. 11	831	205	69	1383
Lancaster, John. (See Blackburn, Thomas, assignor.)						
Lancaster, Levi B., Massillon, Iowa. Planter.....	518,671	Apr. 24	2139	535	67	436
Land, Charles H., Detroit, Mich. Refractory and non-conducting heat-magazine.....	523,272	Oct. 30	2699	{ 650 651 }	69	557
Land, Charles H., Detroit, Mich. Apparatus for focusing flame.....	530,696	Dec. 11	1107	268	69	1431
Land, Ole C., <i>et al.</i> , executors. (See Syversen, Andreas.)						
Landerer, Albert. (See Schütz and Landerer.)						
Landers, Upton S., Fulford, Md. Axle-box for railway-cars.....	518,723	Apr. 24	2240	557	67	453
Landes, Henry W. (See Wands, Washington I., assignor.)						
Landgraf, Carl H., assignor to H. Zimmern & Co., New York, N. Y. Watchmaker's pois- } ing-tool.....	529,178	Nov. 13	1182	284	69	881
Landgraf, Philip B., Chicago, Ill. Steam-engine.....	521,504	June 19	1353	315	67	1475
Landiu, Peter J., and F. L. Walker, assignors to T. B. Walker and S. E. Wilson, Minne- } apolis, Minn. Cash register, indicator, and recorder.....	526,400	Sept. 25	1887	{ 448 449 450 }	68	1536
Landin, Peter J., and F. L. Walker, assignors to T. B. Walker and S. E. Wilson, Minne- } apolis, Minn. Cash register, indicator, and recorder.....	526,401	Sept. 25	1897	{ 450 451 452 }	68	1538
Landin, Peter J., and F. L. Walker, assignors to T. B. Walker and S. E. Wilson, Minne- } apolis, Minn. Cash register, indicator, and recorder.....	526,402	Sept. 25	1906	{ 452 453 454 }	68	1539
Landis, Frank F., Waynesborough, Pa. Crank-pin.....	512,552	Jan. 9	1370	331	66	271
Landis, Frank F., Waynesborough, Pa. Straw-stacker.....	512,553	Jan. 9	1370	331	66	271

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Landis, Frank F., Waynesborough, Pa. Cross-head	512,554	Jan. 9	1372	332	66	271
Landis, Frank F., Waynesborough, Pa. Straw-burning boiler	512,555	Jan. 9	1373	332	66	271
Landis, Frank F., Waynesborough, Pa. Discharge-pipe for pneumatic straw-elevators	512,556	Jan. 9	1375	332	66	272
Landis, Frank F., Waynesborough, Pa. Discharger for pneumatic straw-elevators	512,557	Jan. 9	1376	333	66	272
Landis, Frank F., Waynesborough, Pa. Flexible pipe for pneumatic straw-elevators	512,558	Jan. 9	1377	333	66	272
Landis, Frank F., Waynesborough, Pa. Pneumatic straw-elevator	514,266	Feb. 6	503	124	66	947
Landis, Frank F., Waynesborough, Pa. Centrifugal discharger for straw-stackers	517,524	Apr. 3	176	39	67	36
Landis, Frank F., Waynesborough, Pa. Centrifugal discharger for pneumatic straw-stackers	517,525	Apr. 3	177	40	67	36
Landis, Frank F., Waynesborough, Pa. Deflector for pneumatic straw-stackers	519,473	May 8	971	235	67	736
Landis, Frank F., Waynesborough, Pa. Mouthpiece for pneumatic straw-stackers	519,474	May 8	972	235	67	736
Landis, Frank F., Waynesborough, Pa. Pneumatic straw-stacker	522,758	July 10	1036	254	68	208
Landis, Frank F., Waynesborough, Pa. Straw-stacker	522,759	July 10	1029	254	68	209
Landis, Frank F., Waynesborough, Pa. Discharge-pipe for straw-stackers	522,760	July 10	1031	254	68	210
Landis, Frank F., Waynesborough, Pa. Band-cutter and feeder	531,541	Dec. 25	2554	618	69	1735
Landis, George E., La Grande, Oreg. Animal gun-trap	520,164	May 22	2158	526	67	981
Landis, John H., Pittsburg, Ohio. Wire fence	512,722	Jan. 16	1643	395	66	337
Landmann, Gustavus. (See Lemp, Anderson, and Landmann.)						
Landreth, Leopold, Bristol, Pa. Spike-drawing bar	517,977	Apr. 10	926	232	67	189
Landry, Justin, and G. Beyroux, assignors of one-third to R. de Montaignac, Paris, France. Motor-power engine	529,330	Nov. 13	1442	348	69	930
Lane, Almeron M., Meriden, Conn. Clock-case	511,899	Jan. 2	292	67, 68	66	56
Lane, Almeron M., Meriden, Conn. Clock-case	522,298	July 3	217	58	68	44
Lane, Andrew W., Fredonia, Kans. Wire-and-slat-fence machine	530,321	May 22	2418	588	67	1030
Lane, Archibald M., et al. (See Kaldrider, William H., assignor.)						
Lane, Cornelius. (See Lane, John and C.)						
Lane, Daniel F., Corning, N. Y. Truss-bridge	531,048	Dec. 18	1694	403	69	1554
Lane, Edward S., Birmingham, assignor of two-thirds to Fordham & Smith, London, England. Fork attachment	519,717	May 15	1396	337	67	826
Lane, Frederick, Brookline, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Indicator for steam-engines	530,433	Dec. 4	619	154	69	1328
Lane, George. (See Lane, John G. and G.)						
Lane, Henry, Brisbane, Queensland. Harness-saddle	526,716	Oct. 2	79	21	69	17
Lane, Howard, Birmingham, England. Apparatus for drawing metal tubes	511,900	Jan. 2	294	65	66	57
Lane, John and C., Holly, Mich. Wire fence	518,506	Apr. 17	1857	460	67	371
Lane, John G., Poughkeepsie, N. Y. Latch	523,218	July 17	1813	456	68	372
Lane, John G. and G., Poughkeepsie, N. Y. Door-hanger	529,555	Nov. 20	1870	445	69	1025
Lane, Joseph, Lewistown, Ill. Pipe-vise	524,330	Aug. 14	617	149	68	792
Lane, Joseph J., Nelsonville, Ohio. Coal-dump	522,840	July 10	1147	284	68	232
Lane, Louis, Newark, Ohio. Hanger	529,331	Nov. 13	1444	348	69	930
Lane, Marcus, Freeport, Ill. Matrix-making machine	530,279	Dec. 4	356	88, 89	69	1280
Lane, Price, St. Louis, Mo. Machine for boring cob pipes	516,208	Mar. 13	776	181	66	1613
Lane, William G., Picton, Canada, assignor to Universal Coal Dumping Car Company, Springfield, Ill. Dumping-car	528,546	Nov. 6	39	10	69	653
Lane, William H., Brooklyn, and F. S. Perrio, New York, N. Y., assignors to American Telephone and Telegraph Company, of New York. Visible signal device	520,365	May 22	2500	605	67	1046
Lang & Campbell et al. (See Boomhower, Eli E., assignor.)						
Lang, Charles, et al. (See Grunwald, Ludwig, assignor.)						
Lang, Elmer L., and F. H. Daniell, Franklin Falls, assignors to S. Mills, Franklin, N. H. Thickening-thread mechanism for knitting-machines	527,019	Oct. 2	570	138	69	108
Lang, Friedrich, Cleveland, Ohio. Subterranean conduit	517,345	Mar. 27	2702	634	66	2010
Lang, Henry H., assignor to W. M. Brown, Albany, N. Y. Sectional ladder	511,449	Jan. 2	164	41	66	34
Lang, Henry H., Buffalo, assignor to W. M. Brown, Albany, N. Y. Sectional ladder	518,961	May 1	39	11	67	543
Lang, Herbert, Tacoma, Wash. Smelting ores	519,129	May 1	339		67	603
Lang, John, London, England. Corset	516,767	Mar. 20	1721	405	66	1804
Lang, John W., Los Angeles, Cal. Car-coupling	519,022	May 1	134	33	67	562
Lang, Otto H., Dallas, Tex. Suspended rail-joint	523,796	July 31	2824	701	68	588
Lang, William, Brooklyn, N. Y. Cash register and indicator	520,853	June 5	182	39	67	1230
Lang, William, Brooklyn, N. Y., assignor to G. W. Church, Newark, N. J. Speed-measure for shafting	527,207	Oct. 9	860	209	69	175
Langdon, Albert H., Elgin, Ill. Alarm-bell	519,581	May 8	1169	281	67	772
Lange, Albert C., et al. (See Evered, Joshua, assignor.)						
Lange, Fritz, Brenham, Tex. Ventilating-fine	530,229	Dec. 4	272	67	69	1265
Lange, Herman O., Muskegon, Mich. Lever-action for valve-gear for log-turners	516,741	Mar. 20	1687	399	66	1798
Lange, Louis G., et al. (See Evered, Joshua, assignor.)						
Lange, Philip, Newark, N. J., and B. G. Lamme, assignors to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Controlling-switch for electric railways	518,693	Apr. 21	2171	543	67	442
Langell, August. (See Larson, Carl W., assignor.)						
Langell, Charles F., Fort Scott, Kans. Grain-door for box-cars	518,528	Apr. 17	1894	469	67	378
Langen, Eugen, Cologne, assignor to Gas-Motoren-Fabrik-Dentz, Cologne-Dentz, Germany. Apparatus for generating elastic fluid under pressure	525,271	Aug. 28	2240	546	68	1114
Langenau, William C. (See Kregel, Louis G., assignor.)						
Langenau, William C., Cleveland, Ohio. Coffin-lid hinge and fastener	522,218	July 3	76	16	68	15
Langenau, William C., Cleveland, Ohio. Fastener for casket-lids	528,948	Nov. 13	796	186	69	812
Langfelder, Henry, New York, N. Y., assignor of one-half to F. G. Otto & Sons, Jersey City, N. J. Musical instrument	519,816	May 15	1553	380	67	856
Langfelder, Henry, New York, N. Y., assignor of one-half to F. G. Otto & Sons, Jersey City, N. J. Damping device for music-boxes	521,289	June 12	956	227	67	1383
Langfelder, Henry, Brooklyn, assignor to M. J. Paillard & Co., New York, N. Y. Coin-controlled music-box	521,620	June 19	1553	363	67	1510
Langhaus, Rudolf, Berlin, Germany. Incandescent lamp	516,892	Mar. 20	1917	453	66	1843
Langlais, Joseph T., Berkeley, Cal. Bevel	521,414	June 12	1171	278	67	1426
Langmair, Woodburn, Toronto, Canada. Rubber tire	511,550	Jan. 2	165	41	66	35
Langston, Benjamin D. (See Tolar and Langston.)						
Langston, Thomas, assignor to Edward Miller & Company, Meriden, Conn. Lantern	528,439	Oct. 30	2926	722	69	608
Langton, James H., Centreville, Mich. Portable sawing-machine	531,195	Dec. 18	1959	465	69	1602
Langton, James H., Centreville, Mich. Stake or post base	531,196	Dec. 18	1963	466	69	1603
Languirand, Joseph, Woonsocket, R. I. Picker-staff for looms	515,344	Feb. 27	2267	562	66	1323
Lanier, Peter R., Jackson Hill, N. C. Grain-separator	530,250	Dec. 4	364	89, 90	69	1282

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Lannert, John A. (See Wilder, Thissell, Lannert, and Jeavons.)						
Lannert, John A., W. R. Jeavons, Cleveland, Ohio, and W. H. Wilder, Northampton, Mass. Vapor-burner.....	517,048	Mar. 27	2205	522	66	1912
Lansberg Brake Company. (See Gnels, Herman, assignor.)						
Lansberg Brake Company. (See Lansberg, Frank, assignor.)						
Lansberg, Frank, assignor to Lansberg Brake Company, St. Louis, Mo. Air-brake.....	516,936	Mar. 20	1996	470	66	1857
Lansing, Richard R., Detroit, Mich. Making pyroxylin labels.....	513,791	Jan. 30	3435	847	66	779
Lantry, Charles F. (See Smith, Stephen T., assignor.)						
Lantry, Charles F., New York, N. Y. Machine for attaching postage-stamps.....	518,612	Apr. 24	2029	{ 504 } 505	67	417
Lantz, Emanuel M., Helena, Ohio. Cider-press.....	514,831	Feb. 13	1424	359	66	1140
Lantz, William B., Gloucester, Mass. Rope-hauling machine.....	531,318	Dec. 25	2196	525	69	1661
Lapham, Valentine, Chicago, Ill. Sprinkler-head for automatic fire-extinguishers.....	513,582	Jan. 30	3098	762	66	719
Lapp, John, Rochester, N. Y. Sectional boiler.....	516,209	Mar. 13	778	182	66	1614
Laphorn, Edwin, <i>et al.</i> (See Ratsey, Thomas W., assignor.)						
Laphorn, Edwin W., <i>et al.</i> (See Ratsey, Thomas W., assignor.)						
Lara, Manuel, Mexico, Mexico. Canteen.....	517,108	Mar. 27	2310	544	66	1933
Laraway, George W., Hartford, Conn., and J. E. West, St. Cloud, Minn.; said Laraway assignor to said West. Press for finishing molded articles.....	526,717	Oct. 2	80	21	69	17
Larcom, Reubin L., Fandon, Ill. Electric inhaler.....	512,723	Jan. 16	1645	395	66	338
Lare, Benjamin F., and C. M. Greer, assignors to Ajax Metal Company, Philadelphia, Pa. Trolley.....	528,949	Nov. 13	797	186	69	812
Larimer, Frank H. (See Pidcock, John R., assignor.)						
Larimer, William H. (See Coppage, William, assignor.)						
Larios, Pablo. (See Lowman, John, assignor.)						
Lariviere, Jean, Paris, France. Printing-machine for copper or steel plates.....	519,915	May 15	1708	{ 417 } 418 419	67	885
Larkey, Rasmus, Pewaukee, Wis. Apparatus for treating milk.....	523,043	July 17	1495	372	68	314
Larkin, Arthur J., Council Bluffs, Iowa. Stump-puller.....	519,263	May 1	580	141	67	650
Larkins, Samuel I., Murray, Iowa. Draft-equalizer.....	512,039	Jan. 2	518	122	68	99
Larkins, Samuel I., Murray, Iowa. Draft-equalizer.....	520,322	May 22	2420	589	67	1030
Larrabee, Charles S. (See Smith, William J., assignor.)						
Larsen, August, assignor of three-fourths to L. G. Abbott, H. M. Chase, F. H. Wells, Syracuse, and E. Jones, Homer, N. Y. Type-writing machine.....	515,710	Feb. 27	2856	{ 710 } 711	66	1436
Larsen, August, assignor of three-fourths to L. G. Abbott, H. M. Chase, F. H. Wells, Syracuse, and E. Jones, Homer, N. Y. Type-writing machine.....	515,711	Feb. 27	2858	711	66	1436
Larsen, Hans, assignor of one-half to H. P. Jensen, Newell, Iowa. Animal-releasing device.....	530,487	Dec. 4	731	179	69	1348
Larson, Carl G., Sandviken, Sweden. Device for drawing tubes.....	519,086	May 1	252	60	67	584
Larson, Carl G., Sandviken, Sweden. Tube-rolling mill.....	526,157	Sept. 18	1450	339	68	1440
Larson, Carl G., Sandviken, Sweden. Support for mandrel-bars of tube-rolling mills.....	528,676	Nov. 6	223	68, 69	69	697
Larson, Carl W., Lynn, assignor of one-half to A. Langell, Boston, Mass. Electric automatic circuit-breaker.....	522,527	July 3	596	153	68	118
Larson, Lars G., assignor to himself and C. Lundquist, Moscow, Idaho. Portable burglar-alarm.....	527,998	Oct. 23	2232	538	69	457
Larson, Lewis. (See Rick and Larson.)						
Larsson, Henry W., Springfield, Mass. Door spring or check.....	527,753	Oct. 16	1769	426	69	356
Larsson, Henry W., Springfield, Mass. Door spring and check.....	530,230	Dec. 4	274	68	69	1265
Larsson, Lars. (See Little, James, assignor.)						
Larsson, Lars M., Dejefors, near Deje, and C. J. Bergström, Finshyttan, Sweden. Drying apparatus.....	515,913	Mar. 6	282	66	66	1506
Lary, Lorenzo F., Pottersburg, Ohio. Gravity-battery.....	516,653	Mar. 20	1534	365	66	1771
Lasar, Walter, St. Louis, Mo. Wire-cloth holder.....	517,408	Mar. 27	2840	665	66	2037
Lasar, Walter, St. Louis, Mo. Adjustable window-screen.....	523,044	July 17	1497	372	68	314
Lasch, Albin, Penzig, Germany. Device for closing bottles, jars, &c.....	520,854	June 5	187	41	67	1230
Lash, Levi. (See Huefner and Lash.)						
Lash, Hito M., <i>et al.</i> (See Cole, Thomas A., assignor.)						
Lash, William, Avilla, Ind. Sliding-door lock.....	526,403	Sept. 25	1911	454	68	1540
Lash, William, assignor of one-half to D. Duehmig, Avilla, Ind. Combined awning and fire and burglar proof shutter.....	529,737	Nov. 27	2161	515	69	1088
Lashbrook, John B., Oxford, Nebr. Sash-fastener.....	513,542	Dec. 25	2586	619	69	1756
Lasher, Charles E., W. J. Webster and D. L. Newton, near Oakdale Station, Pa. Working-barrel protector.....	518,108	Apr. 10	1154	290	67	227
Laska, Mathias A., New Orleans, La. Crevasse-closer.....	526,976	Oct. 2	500	123	69	94
Laskey, Philip B., Marblehead, Mass. Syringe.....	530,187	Dec. 4	195	48	69	1250
Laskey, Philip B., assignor of one-fourth to E. Hathaway, Marblehead, Mass. Sewing-machine.....	528,782	Nov. 6	462	113	69	730
Latham, Ephraim, deceased; J. F. Latham, Paint Rock, Ala., administrator, assignor to L. D. Saxton, Philadelphia, Pa. Car-coupling.....	530,697	Dec. 11	1109	269	69	1432
Latham, Jonathan F., administrator. (See Latham, Ephraim.)						
Latham, Marquis, Chicago, Ill. Trousers-stretcher.....	518,760	Apr. 24	2301	571	67	464
Latham, William. (See Vaughan, William, Jr., assignor.)						
Lathrop, Carrie D. (See Lathrop, Stephen P., assignor.)						
Lathrop, Stephen P., assignor to C. D. Lathrop, Montclair, N. J. Steam-engine governor.....	515,964	Mar. 6	365	86, 87	66	1521
Latimer, James A. (See Bolding, James P., assignor.)						
Latta, Thomas <i>et al.</i> (See Loughmiller, Benjamin F., assignor.)						
Lattig, Jacob W., Easton, Pa. Torpedo machine or apparatus for railway signaling.....	522,473	July 3	511	130	68	102
Lattig, Jacob W., Easton, Pa. Electric torpedo apparatus and system for railway signaling.....	522,523	July 3	598	153	68	118
Latnlip, Frederick, assignor of one-half to J. H. Link, Syracuse, N. Y. Rawhide-wound gun.....	521,911	June 26	2060	495	67	1624
Latz, George, Baltimore, Md. Safety car-fender.....	514,234	Feb. 6	447	107	66	936
Lau, Emil, Brooklyn, N. Y. Printer's galley.....	514,757	Feb. 13	1309	326	66	1118
Laube, Annie T., Huron, S. D., assignor of one-half to E. Hymans, Chicago, Ill. Tip for umbrellas, &c.....	514,853	Feb. 13	1464	368	66	1148
Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymans, Chicago, Ill. Washing-machine.....	514,854	Feb. 13	1465	368	66	1148
Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymans, Chicago, Ill. Gopher-extermimator.....	514,855	Feb. 13	1466	368	66	1148
Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymans, Chicago, Ill. Hinge.....	514,856	Feb. 13	1467	368	66	1149
Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymans, Chicago, Ill. Extension stovepipe-joint.....	514,857	Feb. 13	1468	369	66	1149

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Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymans, Chicago, Ill. Wheel for children's vehicles	514,858	Feb. 13	1468	369	66	1149
Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymans, Chicago, Ill. Churn	514,859	Feb. 13	1469	369	66	1149
Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymans, Chicago, Ill. Washing-machine	514,860	Feb. 13	1470	369	66	1149
Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymans, Del Rio, Tex. Wheel	522,941	July 10	1312	326	68	264
Laube, Godfried, Huron, S. D., assignor of one-half to J. Hymann, Del Rio, Tex. Steam coffee or tea pot	524,281	Aug. 7	524	123	68	756
Laube, Godfried, Huron, S. D., assignor of one-half to C. Johnson, River Falls, Wis. Combined radiator, stovepipe-shelf, and towel-rack	526,628	Sept. 25	2261	541 542	68	1606
Laubin, Charles W., Meridian, Miss. Trousers-stretcher	522,991	July 17	1407	351	68	297
Laubmann, Heinrich, assignor to Farbwerke, vormals Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Tetranitro-anthrachryson	511,901	Jan. 2	295		66	57
Lauderbach, James W. (See Sweeney and Stroble, assignors.)						
Lauer Chemical Company. (See Dietrich, Fred G., assignor.)						
Lauer, Daniel, York, Pa. Shade-roller	516,018	Mar. 6	462	166	66	1538
Laughlin, Alexander, Sewickley, and J. Reuleaux, Pittsburg, Pa.; said Reuleaux assignor to said Laughlin. Furnace-chill	511,851	Jan. 2	166	41, 42 445	66	35
Laughlin, Alexander, Sewickley, and J. Reuleaux, Pittsburg, Pa.; said Reuleaux assignor to said Laughlin. Regenerative furnace	529,556	Nov. 20	1871	446	69	1025
Laughlin Brothers. (See Merritt, Arthur A., assignor.)						
Laughlin, Joseph M., Paris, France. Machine for preparing and finishing nails	521,242	June 12	866	204 205	67	1367
Laurent, Joseph B., New York, N. Y. Soldering-iron furnace and gas-heater	530,488	Dec. 4	733	179	69	1348
Lanrie, John G., assignor to Illinois Steel Company, Chicago, Ill. Rolling-mill	513,332	Jan. 23	2957	644	66	601
Lant, George, Chicago, Ill. Bridge gate	515,834	Mar. 6	164	40	66	1484
Lautz, William B., Gloucester, Mass. Rope-hauling machine	512,040	Jan. 2	519	123	66	100
Laval, Carl G. P. de, Stockholm, Sweden. Steam-turbine	522,066	June 26	2340	561 562	67	1674
Laval, George de, Warren, Mass. Direct-acting pumping-engine	520,237	May 23	2282	555	67	1003
Laval, George de, Warren, Mass., assignor to Geo. F. Blake Manufacturing Company, New York, N. Y. Automatic exhaust relief-valve	521,030	June 5	493	117	67	1286
Laval, George de, Warren, Mass., assignor to Geo. F. Blake Manufacturing Company, New York, N. Y. Combined steam and power pump	528,783	Nov. 6	464	114	69	731
Laveissiere, Guillaume, and G. Chamont, Deville, near Rouen, France. Fabric and forming same	525,557	Sept. 4	403		68	1226
Lavender, Charles F., assignor of one-half to T. Fane, Toronto, Canada. Wheel-tire	516,790	Mar. 20	1752	413	66	1809
Lavens, Erwin, Brooklyn, assignor to S. Bergman, New York, N. Y. Carbon-holder for arc lamps	519,334	May 8	722	178	67	691
Lavens, Erwin, Brooklyn, assignor to General Incandescent Arc Light Company, New York, N. Y. Carbon-holder for arc lamps	527,864	Oct. 23	1967	473	69	408
Lavering, Samuel. (See Cooper, John H., assignor.)						
Lavers, John, Quincy, Mass. Stone grinding or polishing machine	524,091	Aug. 7	207	47	68	699
Lavery, David, Kankakee, Ill. Switch-lock	522,219	July 3	78	17	68	16
Lavigne, Joseph P., et al. (See McBride, Henry, assignor.)						
Lavigne, Joseph P., New Haven, Conn. Micrometer-gage	515,234	Feb. 20	2067	515	66	1273
Lavigne, Joseph P., New Haven, Conn. Micrometer-gage	515,235	Feb. 20	2069	515	66	1273
Lavigne, Joseph P., New Haven, Conn. Micrometer surface-gage	515,236	Feb. 20	2071	515	66	1274
Lavigne, Joseph P., assignor to Lavigne & Scott Manufacturing Company, New Haven, Conn. Drilling-machine	515,237	Feb. 20	2073	516	66	1274
Lavigne & Scott Manufacturing Company. (See Lavigne, Joseph P., assignor.)						
Lavy, Alphonse, assignor to Society Lepage & Cie., Paris, France. Distilling apparatus	519,087	May 1	254	60	67	584
Law Battery Company. (See Lyon, John B., assignor.)						
Law, Emerson W. (See Calef, Joseph W., assignor.)						
Law, John G. (See Vantier, John J., assignor.)						
Law, Myron D., Washington, D. C., assignor to A. G. Wheeler, Chicago, Ill. Trolley-conductor and support	515,238	Feb. 2	2075	516	66	1274
Law, Seth W. (See Greene and Law.)						
Lawbon, David W., assignor of one-half to D. H. Risinger, Burnet, Tex. Car-coupling	516,099	Mar. 6	585	137	66	1562
Lawler, James J., Scranton, Pa. Draft-regulator	515,591	Feb. 27	2663	661	66	1399
Lawler, John J. (See Springstead and Lawler.)						
Lawless, John H., Jersey City, N. J. Plumber's suction and force pump	525,556	Sept. 4	401	97	68	1226
Lawlor, John, Brooklyn, assignor of one-half to M. R. Geis, New York, N. Y. Portable open-grate heater	526,629	Sept. 25	2263	542	68	1606
Lawlor, Kate V. (See Fenn, Katy, assignor.)						
Lawlor, Sim C., assignor of three-fourths to S. G. Stevens, T. W. Lemieux, and W. E. Harvey, Duluth, Minn. Portable burglar-alarm	517,869	Apr. 10	738	185	67	156
Lawlor, William E. J., Portland, Oreg. Electric belt	522,841	July 10	1148	284	68	232
Lawrason, George B., New Orleans, La. Instrument for measuring and regulating electrical resistances	514,325	Feb. 6	603	152 153	66	966
Lawrence, Charles S. (See Bailey, Mahlon G., assignor.)						
Lawrence, Charles W., Brooklyn, N. Y. Curtain-pole ring	514,560	Feb. 13	971	245	66	1054
Lawrence Electric Company. (See Lawrence, William, assignor.)						
Lawrence, George A., Peabody, assignor to Lawrence Shaving Machine Company, Salem, Mass. Apparatus for shaving hides	528,638	Nov. 6	214	52 53 54	69	685
Lawrence, George W., et al. (See Hill, Wilford A., assignor.)						
Lawrence, Gustavus L., Montpelier, Vt. Color attachment for printing-presses	523,358	July 24	2049	515	68	432
Lawrence, Henry J., and A. E. G. Bromell, Geelong, Victoria. Boiler-tube or pipe-cleaner	529,798	Nov. 27	2259	539	69	1106
Lawrence, John H., Sterling, Ill. Hinge	518,741	Apr. 24	2275	565	67	459
Lawrence Press Company. (See Lawrence, William B., assignor.) (Reissue.)						
Lawrence, Reuben, and J. Blackford, St. Joseph, Mo. Lubricator	518,257	Apr. 17	1414	354	67	291
Lawrence, Richard N., Zealring, Iowa. Draft-equalizer	512,831	Jan. 16	1863	441	66	380
Lawrence Shaving Machine Company. (See Lawrence, George A., assignor.)						
Lawrence, Willard D., and F. A. Hopkins, Chicago, Ill.; said Hopkins assignor to said Lawrence. Office-door indicator	521,983	June 26	2210	532	67	1650
Lawrence, William, New York, N. Y. Conduit-railway trolley	520,753	May 29	3157	764	67	1182
Lawrence, William, assignor to Lawrence Electric Company, New York, N. Y. Closed conduit for electric railways	516,631	Mar. 13	1490	353 354	66	1746
Lawrence, William, assignor to Lawrence Electric Company, New York, N. Y. Car-brake mechanism	517,871	Apr. 10	741	186	67	157
Lawrence, William, assignor to Lawrence Electric Company, New York, N. Y. Electric locomotive	518,006	Apr. 10	988	246 247	67	199
Lawrence, William B., Columbus, Ohio, assignor, by means assignments, to Lawrence Press Company, of Ohio. Printing-press. (Reissue.)	11,434	Aug. 7	557	132 133	68	761

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Lawrence, William C., Casselton, N. D. Wrench.....	529,624	Nov. 20	1972	470	69	1045
Lawshe, Allison R., Trenton, N. J. Saliva-pump.....	522,842	July 10	1150	285	68	232
Lawson, Edward, Birmingham, England. Ship's berth.....	513,190	Jan. 23	2429	587	66	557
Lawson, Edward, Birmingham, England. Ship's berth.....	517,462	Apr. 3	83	18	67	18
Lawson, John W., San Bernardino county, Cal. Wick-trimmer.....	511,902	Jan. 2	296	69	66	57
Lawson, Thomas. (See Murray, Charles, assignor.)						
Lawson, William, Newton-le-Willows, assignor to J. Riley, Bradford, England. Lime-light apparatus.....	517,870	Apr. 10	739	186	67	157
Lawton, Benjamin T., London, Canada. Combined sofa and bed.....	524,720	Aug. 21	1294	{ 316 317 }	68	928
Lawton, Burton L., Meriden, Conn. Hydrocarbon-lighting system.....	531,543	Dec. 25	2588	620	69	1736
Lawton, Edward, Quincy, Mass. Fire-escape.....	517,872	Apr. 10	742	{ 186 187 }	67	157
Lawton, Lewis, Trenton, N. J. Kiln for firing pottery, &c.....	524,390	Aug. 14	747	182	68	815
Lawton, O. E., et al. (See Miller, Wile S., assignor.)						
Layden, Patrick J., Providence, R. I. Bung.....	512,832	Jan. 16	1863	441	66	380
Layman, Estes H., Des Moines, Iowa. Egg-preserving apparatus.....	517,463	Apr. 3	85	18	67	18
Layne, Joseph W. (See Evans and Layne.)						
Layng, Robert J., et al. (See Buechert, George J., assignor.)						
Layton, Cyrenius A. (See Unterbrink, Ignatius L., assignor.)						
Lazaron, Samuel L., Savannah, Ga. Pencil-holder.....	513,239	Jan. 23	2513	606	66	574
Lazear, Leroy C., Chicago, Ill. Chair.....	523,839	July 31	2906	725	68	603
Lazerus, Lazer, Indianapolis, Ind. Feed device for locomotives.....	530,998	Dec. 18	1603	381	69	1537
Le Barron, Walter J., Barre, Vt. Runner attachment for vehicles.....	529,922	Nov. 27	2468	{ 594 595 }	69	1146
Le Bel, John D., London, Canada. Composition for fire-kindlers.....	522,666	July 10	838	209	68	178
Le Blanc, Jules, Paris, France. Screw-swaging machine.....	516,396	Mar. 13	1088	{ 258 259 }	66	1070
Le Bras, Dominique C., Paris, France. Self-acting cleaner for grooves or hollows of rails of railways.....	522,761	July 10	1032	255	68	210
Le Count, Charles E. (See White and Le Count.)						
Le Count, Frank A., Niantic, Conn. Surcingle.....	523,534	July 24	2365	593	68	488
Le Dan, Paul G., Paris, France. Folding bedstead.....	514,326	Feb. 6	606	153	66	966
Le Grand, Melvin, assignor of one-half to L. Du Bois, Brooklyn, N. Y. Railway-car.....	514,196	Feb. 6	373	89	66	924
Le Grande, Benjamin M., South Haven, Kans. Draft-equalizer.....	519,768	May 15	1473	357	67	840
Le Gresley-Cox, Ernest, Covington, assignor of one-half to W. C. Flower, New Orleans, La. Pin.....	520,165	May 22	2120	526	67	981
Le Mieux, Lucius A., Seymour, Wis. Steam-engine governor.....	530,538	Dec. 11	832	{ 205 206 }	69	1384
Le Sueur, Ernest A., Ottawa, Canada. Electrolytic cell.....	514,681	Feb. 13	1181	294	66	1093
Le Sueur, Ernest A., Ottawa, Canada. Electrolytic cell.....	518,040	Apr. 10	1049	266	67	278
Le Sueur, Ernest A., Ottawa, Canada. Diaphragm for electrolytic cells.....	518,786	Apr. 24	2340	580	67	472
Le Valley, Henry E., Providence, R. I. Mute for banjos.....	520,439	May 29	2614	633	67	1083
Lea, George W. (See Golling and Lea.)						
Leach, Adin H., Marathon, N. Y. Room-chart for hotels.....	522,793	July 10	1078	266	68	219
Leach, Benjamin F. (See Davis and Leach.)						
Leach, Cambreton, Superior, Wis. Car-brake.....	516,684	Mar. 20	1584	377	66	1781
Leach, Charles W., Baltimore, Md. Rapping-plate and drawing-bar for patterns.....	516,687	Mar. 20	1879	444	66	1835
Leach, Ethan A., et al. (See Boomhower, Eli E., assignor.)						
Leach, Eugene W., Racine, Wis. Extensible rack.....	526,450	Sept. 25	1995	476	68	1556
Leach, Frederick. (See Crocker, John, assignor.)						
Leach, Frederick. (See McCoy, George A., assignor.)						
Leach, George J., St. Louis, Mo. Step-ladder extension and shelf.....	523,709	July 31	2674	663	68	560
Leach, Henry L., Jr., Fitchburg, Mass. Track-sanding apparatus.....	512,833	Jan. 16	1864	441	66	380
Leach, Jesse L., Philadelphia, Pa. Carpet-beating machine.....	523,533	July 24	2364	593	68	488
Leach, Samuel S., Sanitaria Springs, N. Y. Condenser for steam-engines.....	516,210	Mar. 13	781	182	66	1614
Leach, Thomas, assignor to Reed & Barton Corporation, Taunton, Mass. Fruit-holder.....	527,999	Oct. 23	2233	539	69	457
Leacock, David, assignor of one-half to G. C. Heinze, Mahanoy City, Pa. Beer-dispensing apparatus.....	525,955	Sept. 11	1099	250	68	1363
Leake, Charles F. (See Godfrey, Leake, and Lucas.)						
Leake Pneumatic Transportation Company. (See Leake, Samuel F., assignor.)						
Leake, Samuel F., assignor to Leake Pneumatic Transportation Company, Philadelphia, Pa. Gate for pneumatic dispatch-tubes.....	519,718	May 15	1397	337	67	826
Leake, Samuel F., assignor to Leake Pneumatic Transportation Company, Philadelphia, Pa. Pneumatic dispatch-tube system.....	519,719	May 15	1398	337	67	826
Leake, Samuel F., assignor to Leake Pneumatic Transportation Company, Philadelphia, Pa. Switch-rail for pneumatic dispatch systems.....	520,064	May 22	1963	480	67	946
Lean, Lewis N., Palmyra, Wis. Milk-cooler.....	526,239	Sept. 18	1995	374	68	1467
Learned, William B., assignor of one-half to E. Howard Watch and Clock Company, Boston, Mass. Watch-dial.....	511,852	Jan. 2	167	42	66	35
Learned, William B., and J. A. Mosher, assignors of one-half to E. Howard Watch and Clock Company, Boston, Mass. Center-armor for watches.....	530,345	Dec. 4	479	119	69	1301
Leary, Elmer E., Rock Hall, Md. Oyster-tongs.....	530,346	Dec. 4	480	119	69	1302
Leary, John J. (See Hardie, James L., assignor.)						
Leary, Michael, Utica, N. Y. Railway-switch.....	512,887	Jan. 16	1963	466	66	399
Leary, William A., Norfolk, Va. Dry-kiln.....	514,832	Feb. 13	1428	360	66	1141
Leason, Thomas R. (See Lord and Leason.)						
Leatherbee, James D. (See Boardman, Arthur F., assignor.)						
Leavenworth, Seth H., assignor to W. T. Cressler, Cincinnati, Ohio. Self-inking hand-stamp.....	527,208	Oct. 9	861	210	69	175
Leaver, James M., assignor of one-half to E. J. Vance, Bay City, Mich. Packing chimneys for shipment.....	513,644	Jan. 30	3201	785	66	737
Leaver, James M., assignor of one-half to E. J. Vance, Bay City, Mich. Box-partition.....	517,007	Mar. 20	2111	499	66	1879
Leaver, James M., assignor of one-half to E. J. Vance, Bay City, Mich. Corrugated packing.....	520,366	May 22	2502	605	67	1047
Leaver, James M., and E. J. Vance, Bay City, Mich. Shipping-case.....	513,645	Jan. 30	3202	785	66	737
Leaver, James M., and E. J. Vance, Bay City, Mich. Shipping-case.....	513,646	Jan. 30	3203	785	66	737
Leaver, James M., and E. J. Vance, Bay City, Mich. Shipping-case.....	519,429	May 8	893	215	67	723
Leavitt, Albert. (See Ethridge, Frank N., assignor.)						
Leavitt, Frank M. (See Norton, Hodgson, and Leavitt.)						
Leavitt, Frank M., assignor to E. W. Bliss Company, Brooklyn, N. Y. Adjustable power-press.....	518,847	Apr. 24	2436	603	67	488
Leavitt, Frank M., Brooklyn, N. Y., assignor, by mesne assignments, to Bernardin Metallic Cork Company, Evansville, Ind. Bottle-capping machine.....	527,209	Oct. 9	863	{ 210 211 }	69	176

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Leavitt, Frank M., Brooklyn, N. Y., and J. G. Hodgson, assignors to E. Norton, Maywood, and O. W. Norton, Chicago, Ill. Can-body-forming machine.....	522,261	July 3	150	37 38 39 40 41 42	68	30
Leavitt, Harry W., Hammond, Ill. Cultivator.....	515,592	Feb. 27	2664	661	66	1399
Leavitt, John E., assignor of one-half to J. L. Wesson, Boston, Mass. Tronsers.....	518,369	Apr. 17	1332	402	67	331
Lebach, Selig, Frankfort-on-the-Main, Germany. Garbage-can.....	523,125	July 17	1651	412	68	343
Lebeau, Telesphar L., assignor of one-half to J. V. Schaefer, Jr., New York, N. Y. Self-playing attachment for pianofortes.....	519,157	May 1	392	95	67	613
Leber, Louis, assignor of one-half to F. G. Klein & Co., Burlington, Wis. Box-fastener.....	523,434	July 24	2177	549	68	455
Leber, Victor, assignor, by mesne assignments, of one-half to H. H. Turner, Danbury, Conn. Fire-escape.....	527,529	Oct. 16	1407	312	69	290
Leblanc, Maurice. (See Hatin and Leblanc.)						
Lebolt, George W., assignor to M. A. Claffin, Chicago, Ill. Bottle-capping machine.....	523,329	Oct. 30	2798	675	69	574
Lecaiano, Zephyrin, Paris, France. Circular-knitting machine.....	525,661	Sept. 4	575	137	68	1257
Lecellier, Leon R., Villedien, France. Protector for electric or other bells.....	518,613	Apr. 24	2031	505	67	417
Lechartier, Antoine L. E., Paris, France. Fire-extinguishing apparatus.....	518,258	Apr. 17	1415	354	67	291
Lechner, Francis M., Columbus, Ohio. Mining-machine.....	526,451	Sept. 25	1997	476	68	1556
Lechner Manufacturing Company. (See Dierdorff, Henry B., assignor.)						
Lechner Manufacturing Company. (See Legg, Benjamin A., assignor.)						
Leclercq, Catherine, Lima, Peru. Awning.....	517,346	Mar. 27	2703	635	66	2010
Lecomte, René J. (See Marty, Agustin, assignor.)						
Lederle, George A. (See Christie, Lowe, and Lederle.)						
Ledoux, Joseph, Montreal, Canada. Carriage-axle.....	512,197	Jan. 2	777	189	66	147
Lee, A. R., et al. (See Raymond, Emmet B., assignor.)						
Lee, Alfred, New Whatcom, Wash. Magazine-gun.....	522,605	July 10	737	187	68	160
Lee, Charles S., Troy, N. Y. Sash-holder.....	517,577	Apr. 3	285	61	67	52
Lee, Charles T., Boston, Mass., assignor to Johns-Pratt Company, Hartford, Conn. Trolley-wire support.....	511,853	Jan. 2	168	42	66	35
Lee, David W., Harrisville, N. Y. Automatic wagon-brake.....	526,132	Sept. 18	1410	328	68	1433
Lee, Elmer, Chicago, Ill. Apparatus for dispensing liquid soap for toilet purposes.....	517,978	Apr. 10	928	232	67	190
Lee, Fred E. (See Beckwith, Arthur K., assignor.)						
Lee, George M. (See Lee, James P., assignor.)						
Lee, George W., Farmington, Mich. Well-cleaning device.....	522,843	July 10	1151	285	68	233
Lee, Henry A., Orange, N. J. Salt-holder for cattle.....	518,819	Apr. 24	2399	592 593	67	481
Lee, Henry L., London, England. Boot-tree.....	523,535	July 24	2365	594	68	488
Lee, Homer, New York, N. Y., assignor to Electric Typographic Company of West Virginia. Matrix-making and type-setting machine.....	516,742	Mar. 20	1689	400	66	1798
Lee, J. Edwin. (See Parks and Goodell, assignors.)						
Lee, Jacob M., Houston, Tex. Cattle-guard for railways.....	514,152	Feb. 6	291	70	66	908
Lee, James H. (See Tanner, Newton J., assignor.)						
Lee, James P. (See Richards, Francis H., assignor.)						
Lee, James P., Hartford, Conn. Bolt-gun.....	513,647	Jan. 30	3204	785 786 787 788 789	66	737
Lee, James P., Hartford, Conn. Cartridge-pocket holder.....	522,604	July 10	736	187	68	160
Lee, James P., assignor to G. M. Lee, Hartford, Conn. Cartridge-pocket.....	522,603	July 10	733	186	68	159
Lee, James R., Baltimore, Md. Badge.....	513,793	Jan. 30	3436	848	66	780
Lee, John. (See Livingston, Andrew W., assignor.)						
Lee, John, San Mateo, Cal. Manufacturing sheet-metal cans.....	517,223	Mar. 27	2502	588	66	1970
Lee, John, San Mateo, Cal. Sheet-metal can and manufacturing same.....	518,548	Apr. 17	1924	475	67	383
Lee, John C., Brookline, Mass. Watch-protector.....	512,559	Jan. 9	1378	333	66	273
Lee, John C., assignor to himself, R. A. Mansfield, and J. W. Walkup, Beaver, Tex. Railway-tie.....	513,792	Jan. 30	3435	848	66	780
Lee, Joseph, Brooklyn, N. Y. Electric motor.....	521,799	June 26	1864	446 447	67	1585
Lee, Joseph, Anburndale, Mass. Kneading-machine.....	524,042	Aug. 7	120	26, 27	68	624
Lee, Kenneth, New York, N. Y., assignor to himself, and H. F. Arms, Worcester, Mass. Desk.....	513,465	Jan. 23	2882	709	66	643
Lee, Robert E., Boswell, Ind. Inhaling-cabinet.....	529,279	Nov. 13	1355	325	69	912
Lee, Stephen. (See Walzel, Gregor, assignor.)						
Lee, Sydney, London, assignor to Puncture Proof Pneumatic Tyre Company, Limited, London, England, and Dublin, Ireland. Puncture-proof band for pneumatic tires.....	513,583	Jan. 30	3099	762	66	719
Lee, Thomas, Home City, Ohio. Spark-arrester.....	515,345	Feb. 27	2268	502	66	1323
Lee, Thomas, Home City, Ohio. Shipping-can.....	522,606	July 10	742	188	68	161
Lee, Thomas, Home City, Ohio. Dust-separator or spark-arrester.....	525,389	Sept. 4	118	31	68	1172
Lee, Thomas A., Kansas City, Mo. Tension-rod.....	513,794	Jan. 30	3437	848	66	780
Lee, Thomas A., Kansas City, Mo. Fireproof roof or floor.....	513,795	Jan. 30	3439	849	66	780
Lee, Thomas A., Kansas City, Mo. Fireproof roof or floor.....	517,576	Apr. 3	263	61	67	51
Lee, Thomas A., New York, N. Y. Floor and floor-block.....	522,425	July 3	444	113	68	88
Lee, Thomas A., New York, N. Y. Fireproof-floor construction.....	522,426	July 3	446	113	68	89
Lee, Thomas A., New York, N. Y. Ceiling, roof, or like structure.....	529,923	Nov. 27	2469	595	69	1146
Lee, Thomas H., Seattle, Wash. Hydraulic valve.....	524,721	Aug. 21	1296	317	68	928
Lee, Thomas W., London, England. Block or briquet of fuel.....	530,698	Dec. 11	1110	269 270	69	1432
Lee, William H., et al. (See Winter, Alexander W., assignor.)						
Lee, William R., Nelsonville, Tex. Sad-iron heater.....	518,370	Apr. 17	1634	403	67	331
Leech, George A., New York, N. Y. Sound-conducting apparatus.....	521,800	June 26	1867	447	67	1566
Leech, George A., New York, N. Y. Apparatus for deaf-mute instruction.....	523,536	July 24	2366	594	68	488
Leeda, Pulaski, Louisville, Ky., assignor of one-half to A. Sinclair, New York, N. Y. Draw-bar for locomotives.....	522,299	July 3	217	58	68	44
Leedy, David W., Lima, Ohio. Animal-trap.....	531,544	Dec. 25	1590	620	69	1736
Leek, Samuel, and J. Norton, McKeesport, Pa. Pipe-welding apparatus.....	529,280	Nov. 13	1356	325	69	912
Leeman, Frank A. (See Zeiser and Leeman.)						
Leen, Patrick, Cincinnati, assignor to Dayton Manufacturing Company, Dayton, Ohio. Car-brake.....	523,219	July 17	1814	455	68	372
Lefebvre, Henry, Philadelphia, Pa. Machine for forming sausages into links.....	526,080	Sept. 18	1318	305 306	68	1416
Lefebvre, Emil, Jr., Fairfax, Iowa. Indexed book.....	512,724	Jan. 16	1646	395	66	338

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Lefebvre, Albert H. (See Barber, Henry A., assignor.)						
Lefever Arms Company. (See Lefever, Daniel M., assignor.)						
Lefever, Daniel M., assignor to Lefever Arms Company, Syracuse, N. Y. Ejector mechanism for exploded shells	525,272	Aug. 28	2241	547	68	1115
Leffler Electro Magnetic Railway Company. (See Leffler, Paul W., assignor.)						
Leffler, Paul W., Minneapolis, Minn., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Electric railway	514,561	Feb. 13	972	{ 245 246 308 309 310 }	{ 66 66 66 66 66 }	{ 1054 1054 1054 1054 1054 }
Leffler, Paul W., Minneapolis, Minn., assignor to Leffler Electro Magnetic Railway Company, Chicago, Ill. Electric-railway system	514,718	Feb. 13	1240	{ 308 309 310 }	{ 66 66 66 }	{ 1105 1105 1105 }
Leffet, John, Newport, Ky. Trap	516,937	Mar. 20	1998	470	66	1857
Lefève, Louis, Houston, Tex. Cattle-guard	513,946	Jan. 30	3674	905	66	828
Legay, Jules and L., Fils, Levallois, France. Electrode for secondary batteries	514,267	Feb. 6	505	124	66	948
Legay, Lucien, Fils. (See Legay, Jules and L., Fils.)						
Legg, Aretas M. (See Charles, Roland H., assignor.)						
Legg, B. D., et al. (See Weston, Edward D., assignor.)						
Legg, Benjamin A., assignor to Lechner Manufacturing Company, Columbus, Ohio. Mining-machine	524,064	Aug. 7	161	37	68	691
Leggett, Clinton H., New York, N. Y. Insect-powder distributor	511,781	Jan. 2	60	15	66	14
Leggett, Clinton H., New York, N. Y. Powder-distributor	519,720	May 15	1399	{ 337 338 339 }	{ 67 67 67 }	{ 827 827 827 }
Leggo, William A., Jr., Hartsdale, N. Y. Sprocket-wheel for chains	522,427	July 3	449	114	68	89
Leggo, William A., Jr., Hartsdale, N. Y. Sprocket-wheel	524,830	Aug. 21	1480	{ 361 362 }	{ 68 68 }	{ 963 963 }
Lehberger, George, Newburg, N. Y. Wire fence. (Reissue.)	11,445	Oct. 9	1184	291	69	235
Lehberger, George, assignor to Kilmer Manufacturing Company, Newburg, N. Y. Rod-mill floor	517,224	Mar. 27	2505	588	66	1971
Lehman, Abraham, and C. J. Kraus, Peru, Ind. Treating jute or other bagging	518,549	Apr. 17	1925		67	383
Lehman, Ben. (See Burns, Walter G., assignor.)						
Lehman, Charles, Johnstown, Pa. Nut-lock	522,906	July 10	1252	309	68	252
Lehman, Charles, Johnstown, Pa. Nut-lock	522,907	July 10	1253	310	68	252
Lehman, Isaac, Ashcroft, Canada. Tire-setter	512,560	Jan. 9	1379	333	66	273
Lehman, Leopold, Joliet, Ill. Harp	526,630	Sept. 25	2265	542	68	1606
Lehman, Simon. (See Harrah, Philip J., assignor.)						
Lehman, William B. (See Neff, Abraham J., assignor.)						
Lehmann, Carl F. W., assignor to W. Campbell, New York, N. Y. Machine for printing wall-paper	518,324	Apr. 17	1531	381	67	312
Lehmann, Nicholas, Atlanta, Ga. Stove	527,067	Oct. 9	642	156	69	135
Lehnbeuter, Joseph, St. Louis, Mo. Removable window-sash	525,987	Sept. 11	1159	{ 263 264 }	{ 68 68 }	{ 1375 1375 }
Lehner, Wilhelm, Munich, Germany. Ellipsograph	520,003	May 15	1855	453	67	911
Leibert, Owen F., Bethlehem, Pa. Breech mechanism for ordnance	516,768	Mar. 20	1722	405	66	1804
Leiby, Clark, Sharon, Ohio. Holdback for vehicles	512,117	Jan. 2	649	155	66	124
Leicht, Gustav, Dusseldorf, Germany. Fastening for walls	523,359	July 24	2050	515	68	432
Leidgen, Nicolaus, Milwaukee, Wis. Lubricator	529,393	Nov. 20	1574	374	69	973
Leidgen, Nicolaus, assignor of one-half to O. Gelhaar, Milwaukee, Wis. Lock-nut	529,034	Nov. 13	923	219	69	834
Leidich, Peter C., Ashland, Pa. Tap for drawing liquids from casks	519,430	May 8	894	216	67	723
Leigh, Thomas B. (See Shepherd, Job, assignor.)						
Leighton, Edward L., Cleveland, Ohio. Machine for shearing wooden railway-ties	526,576	Sept. 25	2179	521	68	1589
Leighton, Ernest H., Boston, Mass. Railway-switch	515,122	Feb. 20	1877	471	66	1237
Leighton, Walter H., assignor of one-half to J. H. Tattersall, Manchester, N. H. Machine for applying toe-tips	514,424	Feb. 6	738	188	66	993
Leijonstein, Sven O., Philadelphia, Pa. Breech mechanism for ordnance	529,394	Nov. 20	1575	{ 374 375 }	{ 69 69 }	{ 973 973 }
Leinbrock, Oskar, Gottenba, Germany. Coffee-mill	517,614	Apr. 3	323	76	67	63
Leineweber, Herman, Chicago, Ill. Bolt-gun	527,369	Oct. 9	1137	277	69	226
Leininger, Augustus, et al. (See Best, Clearmont V., assignor.)						
Leininger, Augustus, and E. Shreiner, Canton, Ohio. Tricycle	520,790	June 5	52	12	67	1206
Leisenring, Henry G., Wayne, Nebr. Surgical chair	513,584	Jan. 30	3100	762	66	719
Leist, Abraham P., Liberty Centre, Ohio. Evaporating apparatus	520,438	May 29	2613	{ 632 633 }	{ 67 67 }	{ 1083 1083 }
Leistner, Edward von, Stapleton, assignor of one-half to M. Steinmann, New York, N. Y. Toy building-block	525,221	Aug. 28	2170	530	68	1101
Leitch, Henry. (See McDonald, Angus, assignor.)						
Leitch, Langhorne, Boswell, Va. Bread-raiser	530,231	Dec. 4	275	68	69	1265
Leitch, Meredith, Covington, Va. Means for oiling loose wheels or pulleys	523,670	July 31	2598	{ 647 648 }	{ 68 68 }	{ 548 548 }
Leith, Harvey I., Providence, R. I. Non-filling bottle	529,035	Nov. 13	924	219	69	834
Leland, Frank A., Worcester, Mass. Trombone	530,781	Dec. 11	1249	302	69	1453
Lemaire, Henri F. M., Paris, France. Cigarette-making machine	520,530	May 29	2769	670	67	1110
Lemieux, Israel, Fond du Lac, Wis. Wooden shovel	525,149	Aug. 28	2053	501	68	1081
Lemieux, Timothy W., et al. (See Lawlor, S. C., assignor.)						
Lemke, Charles M., assignor of one-half to F. A. Powell, Atlanta, Ga. Harness-saddle	522,185	June 26	2542	610	67	1713
Lenke, Hermann E. W., Clinton, Conn. Kettle-scraper	522,794	July 10	1079	266	68	220
Lenman, John, Wakefield, Mass. Reversible car-seat	515,937	Mar. 6	319	76	66	1513
Lenmon, George E., Cary, N. C. Railway-switch	531,439	Dec. 25	2414	575	69	1703
Lenmon, George F., St. Augustine, Fla. Fastening device for envelopes, letters, &c.	518,109	Apr. 10	1154	290	67	227
Lemp, Hermann, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Cut-out	514,480	Feb. 13	844	215	66	1030
Lemp, Hermann, Lynn, Mass., assignor to Thomson Electric Welding Company, of Maine. Reactive coil	519,335	May 8	724	178	67	691
Lemp, Hermann, Lynn, Mass., assignor to Thomson Electric Welding Company, of Maine. Electric-welding machine	523,987	Aug. 7	35	8	68	669
Lemp, Hermann, Lynn, Mass., assignor to Thomson Electric Welding Company, of Maine. Producing locally-annealed steel plates	531,197	Dec. 18	1964	466	69	1603
Lemp, Hermann, Lynn, and W. S. Moody, Chelsea, Mass., assignors to Thomson Electric Welding Company, of Maine. Electric metal-working	515,778	Mar. 6	85	20	66	1470
Lemp, Hermann, Lynn, and W. S. Moody, Chelsea, Mass., assignors to Thomson Electric Welding Company, of Maine. Electric metal-working	516,312	Mar. 13	937	{ 220 221 }	{ 66 66 }	{ 1644 1644 }
Lemp, Hermann, Lynn, and W. S. Moody, Chelsea, Mass., assignors to Thomson Electric Welding Company, of Maine. Electric metal-working	523,986	Aug. 7	30	7, 8	68	668
Lemp, Hermann, and M. J. Wightman, Hartford, Conn., assignors to Schuyler Electric Company, of Connecticut. Safety cut-out for electrical apparatus	517,120	Mar. 27	2330	548	66	1937

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Lemp, Hermann, and C. G. Anderson, Lynn, Mass., assignors to Thomson Electric Welding Company, of Maine. Electric welding-machine	519,336	May 8	726	{ 178 179 }	67	692
Lemp, Hermann, C. G. Anderson, and G. Landmann, Lynn, Mass., assignors to Thomson Electric Welding Company, of Maine. Mechanical hammer	513,516	Jan. 30	2978	733	66	696
Lemström, Selim, Helsingfors, Finland. Means for promoting vegetation	525,988	Sept. 11	1160	264	68	1375
Lemström, Selim, Helsingfors, Finland. Protecting growing vegetables from night frosts.	525,989	Sept. 11	1162	264	68	1375
Lencke, John K., St. Paul, Minn. Fluid-pressure brake apparatus	517,953	Apr. 10	885	{ 221 222 }	67	183
Lencke, John K., Minneapolis, Minn. Controller and arighter for air-brake retainers	517,955	Apr. 10	894	{ 223 224 }	67	184
Lencke, Controller and arighter for air-brake retainers	517,954	Apr. 10	890	{ 222 223 }	67	183
Lenderking, Louis T., Baltimore, Md. Damper for pipes	518,785	Apr. 24	2340	580	67	472
Lengert Company. (See Chaninell, William J., assignor.)						
Lenhart, Charles N., Mattson, Ill., and H. P. Lenhart, Terre Haute, Ind. Self-closing switch	523,840	July 31	2907	{ 725 726 }	68	603
Lenhart, Harry P. (See Lenhart, Charles N. and H. P.)						
Lennon, Arthur, Fayette, Ohio. Blacksmith's vise	521,505	June 19	1356	315	67	1475
Lennon, Michael J. (See O'Connor and Graham, assignors.)						
Lennox, Alfred B., Bay City, Mich. Adding-machine	519,900	May 15	1782	436	67	899
Lennox, David, Marshalltown, Iowa. Machine for cutting beveled edges on plate metal	527,178	Oct. 9	816	198	69	167
Lenoir, Francis, and E. A. Seward, Columbus, Ga. Fly-bar mechanism	526,719	Oct. 2	82	22	69	18
Lenox, Edwin, Worcester, Mass. Machine for making barbed-wire fencing	529,036	Nov. 13	927	220	69	838
Lents, Charles F., et al. (See Newhouse, John E., assignor.)						
Leonard, Alexander L., Covington, Ky. Chasing game	512,654	Jan. 9	1536	363	66	302
Leonard, Arthur G., New York, N. Y. Fire-extinguisher	512,634	Jan. 16	1866	442	66	380
Leonard, Arthur G., New York, N. Y. Platform-step	517,282	Mar. 27	2593	608	66	1988
Leonard, Benjamin, Sacramento, assignor of one-half to C. W. Weston, San Francisco, Cal. Fruit-wrapping device	528,906	Nov. 6	716	169	69	777
Leonard, Caswell L., assignor of one-half to J. Furr, Veedsburg, Ind. Overcheck-rein holder	527,796	Oct. 23	1848	444	69	388
Leonard, Caswell L., and A. Beyer, Veedsburg, Ind. Churn	528,000	Oct. 23	2234	539	69	457
Leonard, Charles N., Indianapolis, Ind. Continuous tablet for physicians, &c.	511,854	Jan. 2	169	42	66	35
Leonard, David, assignor to F. G. Kneeland, D. E. Harrison, and J. R. Knight, St. Louis, Mich. Spring bed-bottom	521,590	June 19	1502	352	67	1500
Leonard, Florence I., Arlington, Ga. Traveling-case	514,327	Feb. 6	608	154	66	967
Leonard, George B., Gracedale, assignor of one-half to A. D. Smith, Ashley, Pa. Car-coupling	528,951	Nov. 13	800	187	69	812
Leonard, Harry W., New York, N. Y. Electric heater	522,718	July 10	929	232	68	194
Leonard, John W., Chicago, Ill. Hair-curler	519,189	May 1	447	109	67	623
Leonard, Luther B., et al. (See Ring, Smith, and Anness, assignors.)						
Leonard, Michael B. (See Bogart and Leonard.)						
Leonard, Michael B., Richmond, Va. Electrical apparatus for controlling signals	517,419	Mar. 27	2860	670	66	2041
Leonard, Newton, Washington Mills, assignor of one-half to L. J. Lewis, Jr., New Hartford, N. Y. Support for plants	516,632	Mar. 13	1491	354	66	1746
Leonard, Samuel S., Cleveland, Ohio. Car-brake	513,418	Dec. 25	2364	565	69	1693
Leonhardt, Jacob, St. Louis, Mo. Plunger for brick-machines	518,460	Apr. 17	1783	442	67	358
Leonhardt, Jacob, St. Louis, Mo. Mold for brick-machines	518,461	Apr. 17	1784	443	67	358
Leonhardt, Jacob, assignor to Columbia Manufacturing Company, St. Louis, Mo. Machine for pressing bricks, tiles, &c.	523,797	July 31	2825	{ 702 703 }	68	588
Leoni, Philippe, Paris, France. Automatic distributor for liquids	520,531	May 29	2770	670	67	1111
Lepage, Charles, Duluth, Minn., assignor of one-half to C. Blais, Superior, Wis. Hand-truck	529,738	Nov. 27	2163	516	69	1088
Lepke, Leonard. (See Sellenscheidt and Lepke.)						
Lepley, Thomas B., assignor of one-half to H. Ruhnstroth, La Granda, Oreg. Can-opener	511,939	Jan. 2	391	91	66	74
Lepper, Frederick, and W. Wighton, Toronto, Canada. Trolley-wheel	529,839	Nov. 27	2318	552	69	1118
Lerch, William, Albany, N. Y. Button-holder	519,582	May 8	1171	281	67	772
Leresche, Jules, Sens, France. Machine for hollowing razor-blades, &c.	517,464	Apr. 3	86	18, 19	67	18
Lesch, Peter. (See Berkes and Lesch.)						
Leschhorn & Riegelmann. (See Kilmarx, Otto E., assignor.)						
Lesem, Samuel. (See Pickett, George W., assignor.)						
Leslie, Benjamin J., Butler, Ky. Portable fence	518,039	Apr. 10	1048	266	67	208
Leslie Brothers Manufacturing Company. (See Metzger, Jules P., assignor.)						
Leslie, Edward, Paterson, N. J. Milk-sterilizing apparatus	529,075	Nov. 13	1001	241	69	847
Leslie, Edward, Paterson, N. J. Commode	529,076	Nov. 13	1004	242	69	848
Leslie, John H. (See Davis, Charles E., assignor.)						
Leslie, John S. (See McNaughton, James, assignor.)						
Leslie, Noble B. (See Atworth and Leslie.)						
Lesmeister, Christian, Aix-la-Chapelle, Germany. Roofing-tile	527,431	Oct. 16	1243	305	69	258
Lessard, Jerome, Cohoes, N. Y. Car-coupling	529,924	Nov. 27	2472	595	69	1146
Lesser, Max, assignor of one-half to I. Wolf, Duncansby, Miss. Bridle-bit	526,241	Sept. 18	1599	375	68	1468
Lester, Frank, Panhandle, Tex. Reversible steam-engine	523,360	July 24	2051	{ 515 516 }	68	432
Lester, Frank, Panhandle, Tex. Rotary valve for steam-engines	526,400	Sept. 18	1250	289	68	1404
Lester, James F., Atlanta, Ga. Fiber brake, crusher, and cleaner	518,259	Apr. 17	1417	355	67	292
Létourneau, John B., Brockton, Mass. Sash-fastener	528,728	Nov. 6	356	87	69	711
Lesure, Harvey A., Keene, N. H., and D. D. Dunklee, Greenfield, Mass. Photographic-print mounter	525,608	Sept. 4	479	115	68	1242
Letson, Augustus F., Buffalo, N. Y. Brake for railway-cars	531,319	Dec. 25	2197	526	69	1661
Letson, Moore, and F. Burpee, New Westminster, Canada. Can-washer	525,022	Aug. 28	1820	{ 443 444 }	68	1039
Letz, Charles M., assignor to Franklin Engraving and Electrotyping Company, Chicago, Ill. Machine for making wax forms for electrotyping	524,765	Aug. 21	1367	333	68	941
Leupold, Charles W., Philadelphia, Pa. Attachment for saddles	515,239	Feb. 20	2073	516	66	1275
Leverdahl, Axel, assignor to Gardner Sewing Machine Company, Aurora, Ill. Finger for cotton-harvesters	517,578	Apr. 3	266	61	67	52
Leverdahl, Axel, assignor to Gardner Sewing Machine Company, Aurora, Ill. Cotton-picker	525,911	Sept. 11	1033	234	68	1351
Leverdahl, Axel, assignor to Gardner Sewing Machine Company, Aurora, Ill. Driving mechanism for cotton-picking fingers	526,158	Sept. 18	1451	339	68	1440
Lever, Oswald. (See Grundy, William S., assignor.)						
Lever, Oswald, and W. S. Grundy, Philadelphia, Pa. Stop mechanism for spooling-machines	517,615	Apr. 3	324	77	67	63
Leverett, George, and J. Ramsay, assignors of one-third to H. Escombe, Durban, Natal. Sash-holder	514,328	Feb. 6	608	154	66	967

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Levering, William M., Philadelphia, Pa. Expansible bolt.....	525,222	Aug. 28	2172	531	68	1101
Leverkus, Carl H. O., Cologne-on-the-Rhine, Germany. Car starter and brake.....	518,371	Apr. 17	1635	403	67	331
Levey, John, T. H. Butler, and C. A. MacDonald, assignors to Hercules Iron Works, Chicago, Ill. Refrigerating-machine.....	520,930	June 5	336	82	67	1258
Levin, Rudolph L., Menominee, Mich. Centering device for lathes.....	517,466	Apr. 3	88	19	67	19
Levison, Norman, Rochester, N. Y. Elevator-guard.....	531,198	Dec. 18	1967	467	69	1603
Levy, Charles M., New York, N. Y. Finger-ring.....	516,211	Mar. 13	782	182	66	1615
Levy, Harry A. (See Schafer and Levy.)						
Levy, Joseph L. (See Tisdell, Abner G., assignor.)						
Levy, Max, Philadelphia, Pa. Screen for half-tone process.....	521,659	June 19	1614	378	67	1522
Levy, Max Z., Kansas City, Mo. Train-robber alarm.....	525,082	Aug. 28	1933	473	68	1060
Levy, Max Z., Kansas City, Mo. Leggin.....	527,149	Oct. 9	774	189	69	159
Lévy-Samson, Edmond, Paris, France. Centrifugal machine.....	527,499	Oct. 16	1351	330	69	281
Lewers, Henry, Carson City, Nev. Automatic circuit-closer.....	513,796	Jan. 30	3441	849	66	781
Lewie, Henry A., New York, N. Y. Framing for stained-glass windows.....	515,002	Feb. 20	1685	423	66	1204
Lewie, Henry A., New York, N. Y. Bung.....	515,003	Feb. 20	1686	423	66	1204
Lewie, Henry A., New York, N. Y. Frame for stained-glass windows.....	517,049	Mar. 27	2207	502	66	1913
Lewin, Anders W., Stockholm, Sweden. Automatic rope-catcher, fire-escape, and climbing apparatus.....	512,977	Jan. 16	2113	522	66	425
Lewin, J. M., et al. (See Manderfield, George J., assignor.)						
Lewin, Samuel, et al. (See Manderfield, George J., assignor.)						
Lewington, Frank H., Burrillville, R. I. Attachment for spinning-mules.....	526,015	Sept. 11	1202	{ 275 276 }	{ 68 66 }	{ 1382 1615 }
Lewis, Aaron D., Canton, Mo. Electric perforating-pen.....	516,212	Mar. 13	783	183	66	1615
Lewis, Alfred. (See Mobbs and Lewis.)						
Lewis, Allen R., Shelton, Wash. Eaves-trough hanger.....	514,758	Feb. 13	1310	326	66	1118
Lewis, Andrew P., Deer Isle, assignor to W. G. Davis, C. L. Baxter, and W. N. Davis, Portland, Me. Lobster-trap.....	524,331	Aug. 14	618	149	68	793
Lewis, Benjamin F., Amesbury, Mass. Lifting-jack.....	517,465	Apr. 3	87	19	67	19
Lewis, Charles E., Alma, Mich. Photographic-printing frame.....	513,517	Jan. 30	2980	733	66	697
Lewis, Charles F. and W., assignors to A. Falck, New York, N. Y. Combined clothes-wringer and washtub.....	518,412	Apr. 17	1697	421	67	343
Lewis, Daniel W., assignor of one-third to F. McChesney, North Platte, Nebr. Truss.....	513,585	Jan. 30	3102	763	66	719
Lewis, Edwin F., Vine Creek, Kans. Fodder or feed loader and sled.....	530,782	Dec. 11	1251	302	69	1458
Lewis Electric Company. (See Lewis, Isaac N., assignor.)						
Lewis, Eugene F., Norwich, Conn. Packing for piston-rods.....	523,671	July 31	2600	648	68	548
Lewis & Fowler Girder-Rail Company. (See Meeker, Walter C., assignor.)						
Lewis & Fowler Girder-Rail Company. (See Wood, William C., assignor.)						
Lewis, Franklin F. (See Lewis, Stephen B. and F. F.)						
Lewis, George L., Toledo, Ohio. Excavating, ditching, or dredging machine.....	531,199	Dec. 18	1968	467	69	1603
Lewis, Harry A., assignor to himself and W. M. Sullivan, Norristown, Pa., and D. O. Kerbaugh, New York, N. Y. Brake-shoe.....	530,783	Dec. 11	1252	302	69	1458
Lewis, Isaac N., Fort Wadsworth, N. Y., assignor to Lewis Electric Company, of New Jersey. System of car lighting, heating, &c.....	516,495	Mar. 13	1251	300	66	1702
Lewis, Isaac N., Fort Wadsworth, N. Y., assignor to Lewis Electric Company, of New Jersey. Car-lighting.....	516,496	Mar. 13	1255	{ 300 301 }	{ 66 66 }	{ 1702 1702 }
Lewis, Isaac N., Fort Wadsworth, N. Y., assignor to Lewis Electric Company, of New Jersey. Self-regulating dynamo.....	516,497	Mar. 13	1259	301	66	1703
Lewis, Isaac N., Fort Wadsworth, assignor to Lewis Electric Company, New York, N. Y. Electric switch.....	516,498	Mar. 13	1261	301	66	1703
Lewis, Israel, New York, N. Y. Cigar crimping and stamping machine.....	511,960	Jan. 2	392	91	66	74
Lewis, James F. (See Rand, Addison C., assignor.)						
Lewis, John E., assignor of one-half to L. W. Ballard, Alliance, Ohio. Water-motor.....	523,045	July 17	1498	{ 372 373 }	{ 68 67 }	{ 315 315 }
Lewis, Joseph H. (See Rider and Lewis.)						
Lewis, Joseph M., Trenton, N. J. Vise.....	517,347	Mar. 27	2705	635	66	2010
Lewis Knitting Company. (See Lewis, Stephen B. and F. F., assignors.)						
Lewis, Ladd J., Jr. (See Leonard, Newton, assignor.)						
Lewis, Leroy S., Springfield, Mass., assignor to Empire Light Company, of New Jersey. Apparatus for automatically filling lamps with oil.....	521,171	June 12	747	176	67	1345
Lewis, Luther E. (See McDougall, Angus, assignor.)						
Lewis, Lynn R. (See Westcott, Melvin D., assignor.)						
Lewis, Morgan, Laramie, Wyo. Car-coupling.....	514,942	Feb. 20	1599	401	66	1188
Lewis, Morimer G., New York, N. Y. Bench-vise.....	514,012	Feb. 6	59	14	66	865
Lewis, Nathan D., Walnut Springs, assignor of one-half to J. N. Dazey, Fort Worth, Tex. Clothes-pouder.....	524,422	Aug. 14	804	196	68	825
Lewis, R. Milton, et al. (See Smith, Norton, assignor.)						
Lewis, Samuel W., Brooklyn, N. Y. Siphon.....	515,527	Feb. 27	2562	635	66	1378
Lewis, Samuel W., Brooklyn, N. Y. Water-closet.....	515,914	Mar. 6	283	67	66	1506
Lewis, Stephen B. and F. F., assignors to Lewis Knitting Company, Janesville, Wis. Bifurcated garment and gusset therefor.....	517,579	Apr. 3	268	61	67	52
Lewis, Theodore G., Buffalo, N. Y. Chloroform-mixer.....	513,797	Jan. 30	3442	849	66	781
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Gas-regulator.....	519,845	May 15	1598	{ 390 391 }	{ 67 67 }	{ 864 864 }
Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Dental vulcanizer.....	526,785	Oct. 2	195	46	69	37
Lewis, Thomas E., Vicksburg, Miss. Tied shoe-lace fastener.....	526,535	Sept. 25	2117	507	68	1578
Lewis Tool Company. (See Haven, George F., assignor.)						
Lewis, Wilfred. (See Sellers and Lewis.)						
Lewis, Wilfred, assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Holdfast for drilling or boring machines.....	512,198	Jan. 2	773	190	66	147
Lewis, Willard F., Swampscott, Mass. Block system for trolley-railways.....	520,323	May 22	2421	589	67	1030
Lewis, William. (See Lewis, Charles F. and W.)						
Lewis, William. (See Luscomb, Frederick W., assignor.)						
Lewie, William A., Columbus, Ohio. Controlling-bridle for horses.....	515,593	Feb. 27	2665	662	66	1399
Lewis, William B. (See Harrington, Edward M., assignor.)						
Lewis, William H., Rome, N. Y. Wood-splice.....	529,395	Nov. 20	1577	375	69	973
Lewis, William H., Huntington, N. Y., assignor, by mesne assignments, to Blair Camera Company, Boston, Mass. Photographic-camera shutter.....	512,655	Jan. 9	1537	{ 363 369 }	{ 66 66 }	{ 303 303 }
Lewis, William H., Huntington, assignor to E. & H. T. Anthony & Company, New York, N. Y. Roll-holder.....	525,786	Sept. 11	809	185	68	1312
Lewis, William T., Bay City, Mich., assignor to S. Welsh, Philadelphia, Pa. Coin-controlled machine. (Reissue).....	11,415	Apr. 17	1932	{ 490 491 }	{ 67 67 }	{ 393 393 }
Leyner, Peter A., Canfield, Colo. Wire-fence tightener.....	526,718	Oct. 2	81	21	69	18

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Leyson, Sackville G., Syracuse, N. Y. Fire-escape	516,893	Mar. 20	1918	453	66	1843
Leyson, Sackville G., Syracuse, N. Y. Combination water-jacket for furnace doors and mouths	530,539	Dec. 11	834	206	69	1384
Lexow, Charles K. (See Tilmann, Ernest, assignor.)						
Leyare, Andrew A., Alexandria Bay, N. Y. Combined washstand and water-closet.	526,240	Sept. 18	1597	{ 374 375 }	68	1467
Leyendecker, Leonhard, Cronenberg, near Elberfeld, Germany. Refrigerator and beer-cooler	525,787	Sept. 11	811	185	68	1312
Libbey, Hosea W., Boston, Mass. Typograph	520,238	May 22	2284	555	67	1003
Libbey, Hosea W., Boston, Mass. Bicycle	522,008	July 10	1254	310	68	253
Libbey, Hosea W., Boston, Mass. Telephone	526,865	Oct. 2	327	80	69	62
Libbey, Hosea W., Boston, Mass. Button	527,432	Oct. 16	1244	305	69	259
Libbey, Hosea W., Boston, Mass. Bicycle	530,540	Dec. 11	838	206	69	1384
Libbey, Hosea W., Boston, Mass., assignor of one-half to G. H. Kimball and W. P. Johnson, Cleveland, Ohio. Railway-car	523,435	July 24	2178	549	68	455
Libby, Charles L., assignor to E. P. Bullard, Bridgeport, Conn. Boring-mill	514,719	Feb. 13	1247	{ 310 311 312 }	66	1106
Libby, Harlow & Co. (See Nicholls, Walter H., assignor.)						
Liberty, Jerry C., assignor of one-third to O. W. Miller, Easthampton, Mass. Jacquard mechanism for looms	530,050	Nov. 27	2728	{ 654 655 }	69	1196
Liberty Manufacturing Company. (See Shellenback, Peter, assignor.)						
Libey, John D., Lima, Ind. Scraper	529,925	Nov. 27	2474	596	69	1146
Licht, George, et al. (See Winslow, Marlon H., assignor.)						
Lichtenhein, Abraham, assignor to Dreher Manufacturing Company, New York, N. Y. Floor for car-axle boxes	529,926	Nov. 27	2476	596	69	1147
Lichtenstein, Solomon K., trustee. (See Lispenard, George, assignor.)						
Lichtfeldt, Fredrick, Milwaukee, Wis. Sewing-machine	523,361	July 24	2052	516	68	433
Lichty, Norman B., and J. W. Kennedy, Des Moines, Iowa. Coin-controlled wheel of fortune.	512,118	Jan. 2	649	155	66	124
Lidback, John A., assignor to E. T. Burrowes, Portland, Me. Holding device for spring-actuated shades	529,179	Nov. 13	1183	285	69	881
Lidback, John A., assignor to E. T. Burrowes, Portland, Me. Holding mechanism for spring-actuated shades	529,557	Nov. 20	1873	446	69	1026
Liddell, Walter S., Charlotte, N. C. Cotton-press	522,220	July 3	79	{ 17 18 }	68	16
Lidgerwood Manufacturing Company. (See Miller and Covell, assignors.)						
Lieb, Adam. (See Mueller and Lieb.)						
Lieb, Charles A., New York, N. Y. Elastic gear	520,791	June 5	53	12	67	1207
Lieb, Charles A., New York, N. Y., assignor to General Electric Company, Boston, Mass. Commutator connection	516,827	Mar. 20	1812	430	66	1822
Lieb, Charles A., New York, N. Y., assignor to General Electric Company, Boston, Mass. Feed-wire insulator	520,855	June 5	187	41	67	1231
Lieb, Charles A., New York, N. Y., assignor to General Electric Company, Boston, Mass. Trolley-car	522,844	July 10	1152	285	68	233
Lieb, Charles A., New York, N. Y., assignor to General Electric Company, Boston, Mass. Trolley-wheel	522,845	July 10	1152	285	68	233
Lieban, Gustav, Moscow, Russia. Pickling-tank	512,725	Jan. 16	1647	396	66	338
Lieban, Gustav, Moscow, Russia. Furnace for galvanizing pots or tanks	515,594	Feb. 27	2667	662	66	1400
Liebe, James E., and G. R. Merritt, Moorhead, Minn. Envelope	513,021	Jan. 16	2180	520	66	438
Lieber, Albert. (See Barns, Carl, assignor.)						
Liebmann, Rudolph. (See Bechtold, William, assignor.)						
Liechty, Jacob M., Sterling, Ohio. Invalid-bed	517,928	Apr. 10	838	211	67	175
Liefbroer, John, and J. Tendollen, Oostburg, Wis. Tire-heater	526,977	Oct. 2	502	123	69	94
Liese, Julius. (See Schopp and Liese.)						
Liesenhoff, Edward. (See Wagner and Liesenhoff.)						
Liggett, William K. (See Pleukbap and Liggett.)						
Liggett, William K., Columbus, Ohio. Corn-harvester	521,719	June 19	1715	{ 404 405 }	67	1542
Liggett, William K., Columbus, Ohio. Corn-harvester	524,639	Aug. 14	1153	{ 224 225 }	68	891
Liggett, William K., Columbus, Ohio. Corn-harvester	524,963	Aug. 21	1701	417	68	1001
Light, Simon P., et al. (See Andrews, Charles B., assignor.)						
Lighbody, William, London, England. Hurricane-lantern	519,406	May 8	856	{ 207 208 }	67	716
Lightfoot, Lewis H. (See Burr, David J., assignor.)						
Lightford, James G., assignor of one-half to H. Stacey, Indianapolis, Ind. Combined steam and gas motor	515,295	Feb. 20	2177	540	66	1295
Lightford, William L., Indianapolis, Ind. Photographic-camera shutter	517,164	Mar. 27	2405	{ 566 567 516 517 }	66	1951
Lighthall, John A., Jr., Syracuse, N. Y. Apparatus for extracting oil or fat	515,240	Feb. 20	2079	{ 517 518 519 }	66	1275
Lillard, William B. (See Hall and Lillard.)						
Lilleberg, Charles L., assignor of six-sevenths to O. Bilstad, K. G. Olsen, O. M. Turner, F. B. Hyland, A. F. Scheldrup, and L. K. Luse, Stoughton, Wis. Cash register and indicator	525,956	Sept. 11	1101	{ 250 251 252 253 }	68	1363
Lillibridge, Emma J., administratrix. (See Lillibridge, Freeman.)						
Lillibridge, Freeman, deceased, El Paso, Tex.; E. J. Lillibridge, administratrix. Bicycle	515,150	Feb. 20	1928	483	66	1247
Lilly, Samuel M., Philadelphia, Pa. Process of evaporating liquids in vacuo and apparatus therefor	521,215	June 12	818	193	67	1358
Lillis, Michael, Beatrice, Nebr. Adjustable railway-track lifter	512,726	Jan. 16	1648	396	66	338
Lilly, Benjamin S., Broken Bow, Nebr. Harness attachment	527,433	Oct. 16	1245	306	69	259
Lima Locomotive and Machine Company. (See Barthyd, James A., assignor.)						
Limbacher, Jacob, Newark, N. J. Satchel or bag	519,721	May 15	1401	{ 332 339 }	67	827
Lining, John, Mount Alverno, Pa. Fluid-pump	512,978	Jan. 16	2115	502	66	425
Lining, John, Philadelphia, Pa. Flush water-closet valve	524,176	Aug. 7	356	84	68	726
Limpus, Sherman E. (See Limpus, William F. and S. E.)						
Limpus, William F. and S. E., Alpine, Ind. Sulky	518,507	Apr. 17	1858	400	67	371
Lincoln, Charles F., et al. (See Ryan, Michael B., assignor.)						
Lincoln, Charles L., Stamford, Conn. Engine	513,947	Jan. 30	3675	905	66	829
Lincoln, Charles L., Brooklyn, N. Y. Switch-working mechanism	526,979	Oct. 2	505	121	69	94
Lincoln, Charles L., assignor of one-half to R. A. Davison, Brooklyn, N. Y. Railway-switch	526,978	Oct. 2	503	123	69	94

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Lincoln, Frederick H. (See Nichols and Lincoln.)						
Lincoln, Lysander M., Sacramento, Cal. Construction of ships, &c.....	525,349	Sept. 4	44	12	68	1159
Lind, Gustavus, Duluth, Minn. Paper-making machine	517,109	Mar. 27	2311	{ 544 545 }	66	1933
Lind, Hugh, Whitewater, Colo. Pipe-wrench.....	531,125	Dec. 18	1831	{ 434 435 }	69	1579
Lind, Richard. (See Becker and Lind.)						
Lindemann, Albert J., Milwaukee, Wis. Vapor-burning apparatus.....	525,350	Sept. 4	45	12	68	1159
Lindemann, August. (See Lindemann, Charles and A.)						
Lindemann, August. (See Ward and Lindemann.)						
Lindemann, Charles and A., Milwaukee, Wis. Stovepipe-elbow	521,621	June 19	1554	363	67	1510
Lindemeyer, Philip, Jr., Jersey City, N. J. Paper box	523,639	Nov. 6	217	54	69	685
Linden, William, Helena, Mont. Work-holder for grinding-machines	515,595	Feb. 27	2663	663	66	1400
Lindenborn, Solomon, <i>et al.</i> (See Johnson, Charles T., assignor.)						
Linder, Emil A., Brooklyn, N. Y. Thermometer	517,388	Mar. 27	2809	655	66	2030
Linder, Mons A., Pullman, Ill. Keyhole-guard	523,952	Nov. 13	802	187	69	813
Linderman, Albert T., Whitehall, Mich. Preparing lumber-trimmings for boxes, &c	517,348	Mar. 27	2707	636	66	2011
Lindstrom, Hjalmar, De Kalb, Ill. Wheeled plow	525,424	Sept. 4	182	46	63	1184
Lindgren, August, Moline, Ill., assignor to Moline Plow Company. Seeding-machine	516,019	Mar. 6	463	{ 106 107 }	66	1538
Lindgren, August, Moline, Ill., assignor to Moline Plow Company, of Illinois. Cultivator.	531,200	Dec. 18	1971	{ 467 468 }	69	1604
Lindholm, Charles A., Brooklyn, N. Y. Door-knob.....	539,180	Nov. 13	1184	285	69	881
Lindholm, Charlie M., Rancho, Tex. Drill	526,577	Sept. 25	2180	521	68	1589
Lindholm, Nels E. (See Wettervik, Axel, assignor.)						
Lindley, Zachary M., Carthage, Mo. Washing-machine	517,225	Mar. 27	2507	589	66	1971
Lindner, Alofius J. J., and M. Adler, Amsterdam, Netherlands. Tire for cycle or other wheels	516,313	Mar. 13	940	221	66	1645
Lindner, Arthur E., Brooklyn, assignor of one-half to J. Kayser, New York, N. Y. Sewing-machine	516,030	Mar. 6	465	107	66	1538
Lindner, Emerann, Akron, Ohio. Toy	517,616	Apr. 3	326	77	67	64
Lindner, Franz, Dresden, Germany. Repeating mechanism for pianos	530,188	Dec. 4	196	48	69	1250
Lindner, Heinrich. (See Stahl, Sebald, assignor.)						
Lindner, Otto, Brussels, Belgium. Pneumatic tire.....	512,727	Jan. 16	1649	396	66	339
Lindquist, Fred. (See Lindquist, John W., assignor.)						
Lindquist, John W., assignor to himself and F. Lindquist, Galesburg, Ill. Tongue-support.	515,476	Feb. 27	2481	614	66	1363
Lindsay, Augusta H. (See Barnett, Nathan W., assignor.)						
Lindsay, Thomas, <i>et al.</i> (See Shaw, Andrew J., assignor.)						
Lindsay, William B., W. E. Tonner, and A. Lowmiller, Steubenville, Ohio. Filter.....	523,104	Oct. 23	2407	{ 582 583 }	69	489
Lindsay, William H., Bristol, England. Winding mechanism for hoists.....	522,529	July 3	601	{ 153 154 }	68	118
Lindsey, John A. N., Princeton, Mo. Revolving ribbon-cabinet	523,885	Nov. 6	661	159	69	767
Lindsey, Peter H., and C. H. Squires, Lockport, N. Y. Burglar-alarm	523,953	Nov. 13	803	187	69	813
Lindström, Carl E., assignor of two-thirds to H. A. Weld and J. W. Morse, Rock Island, Ill. Hay-loader	522,992	July 17	1408	351	68	297
Lindstrom, Frank. (See Norlin and Lindstrom.)						
Lindstrom, Ivar K., Akerby Orebro, assignor to Aktiebolaget Separator, Stockholm, Sweden. Testing milk	531,049	Dec. 18	1698	.....	69	1555
Lindstrom, Nils O., Union Course, and O. P. Cummings, assignors to A. B. See Manufacturing Company, Brooklyn, N. Y. Apparatus for controlling electric elevators	530,541	Dec. 11	839	207	69	1324
Lindt, John, <i>et al.</i> (See Brown, Norman E., assignor.)						
Lineback, William T., Cincinnati, Ohio, assignor of one-half to G. H. Fennell, Newport, Ky. Vehicle-brake	521,934	June 26	2105	505	67	1632
Lingley, John H. (See Fowler and Lingley.)						
Lingley, John H., <i>et al.</i> (See Turner, William A., assignor.)						
Link-Belt Machinery Company. (See Ewart, William D., assignor.)						
Link, John H. (See Latulip, Frederick, assignor.)						
Linn, Allen D., assignor of one-half to G. W. Perkins, Grand Rapids, Mich. Automatic fire-extinguisher	514,833	Feb. 13	1429	360	66	1141
Linn, John B., Cleveland, assignor of one-half to O. S. Kelly, Springfield, Ohio. Conduit system for electric railways	523,330	Oct. 30	2799	{ 676 677 }	69	574
Linnahan, Patrick H. (See Fitzsimons, Philip, assignor.)						
Lins, Jurgen H., Brooklyn, N. Y. Oil-can carrier	527,339	Oct. 9	1084	262	69	215
Linscheid, Peter, Kemi, Minn. Band-cutter and feeder	519,722	May 15	1403	339	67	827
Linter, William, Cedar Rapids, Iowa. Cooler	521,119	June 5	652	153	67	1314
Lintner & Sporborg. (See House, James A., assignor.)						
Lintner, William T., assignor of one-half to W. L. Sporborg, Gloversville, N. Y. Bearing for speed-indicators	530,792	June 5	54	13	67	1207
Lintner, William T., assignor of one-half to W. L. Sporborg, Gloversville, N. Y. Speed-indicator for shafting	527,557	Oct. 16	1447	352	69	297
Linton, George E., Worcester, Mass. Electric switch	523,724	July 31	2703	669	68	565
Linton, Joseph, Pawtucket, R. I. Mechanical movement	523,725	July 31	2704	669	68	565
Linton, Joseph H., Fort Assinaboine, Mont. Hay or straw burning stove	514,086	Feb. 6	174	41	66	887
Lintz, Richard. (See Haas and Lintz.)						
Linville, Joseph A. (See McKelvey, Stewart D., assignor.)						
Lioet, Henri J., Paris, France. Phonograph	528,273	Oct. 30	2701	{ 651 652 }	69	558
Lipe, Charles E., Syracuse, N. Y. Pedal-crank	512,303	Jan. 9	948	{ 231 232 }	66	192
Lipe, Charles E., assignor to Engelberg Huller Company, Syracuse, N. Y. Hulling-machine.	512,304	Jan. 9	949	232	66	192
Lipe, Charles E., assignor to Engelberg Huller Company, Syracuse, N. Y. Hulling and cleaning machine	525,813	Sept. 11	857	{ 195 196 }	68	1320
Lippert, Wilhelm, Dresden, Germany. Process of and apparatus for aerating water used in baths	523,220	July 17	1815	455	68	372
Lippincott, Charles D., Denver, Colo. Disinfectant	511,782	Jan. 2	62	.....	66	15
Lippincott, Fisher H., Philadelphia, Pa., assignor to American Soda Fountain Company, Jersey City, N. J. Soldering apparatus	513,518	Jan. 30	2981	734	66	697
Lippincott, Fisher H., Philadelphia, Pa., assignor to American Soda Fountain Company, Trenton, N. J. Sirup-jar faucet	526,578	Sept. 25	2181	521	68	1590
Lippincott, Henry C., Philadelphia, Pa. Door-stop	513,333	Jan. 23	2656	645	66	602
Lippy, David, Mansfield, Ohio. Pump for drilled wells	521,720	June 19	1718	405	67	1543
Lippy, David, assignor to C. T. McCue, Mansfield, Ohio. Store-service apparatus	519,288	May 1	625	152	67	658
Lippy, David, and I. E. Finfrock, Mansfield, Ohio. Driving-gear for bicycles.....	523,954	Nov. 13	804	188	69	813

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Lippy, David, and I. E. Finrock, Mansfield, Ohio. Driving-gear for bicycles.....	528,955	Nov. 13	805	188	69	813
Lippy, David, and I. E. Finrock, Mansfield, Ohio. Driving-gear for bicycles.....	528,956	Nov. 13	806	188	69	813
Lippy, David, and I. E. Finrock, Mansfield, Ohio. Driving-gear for bicycles.....	528,957	Nov. 13	807	188	69	814
Liquid Carbonic Acid Manufacturing Company. (See Convent, Charles F. A., assignor.)						
Lisle, Myron C., assignor of one-half to W. A. Berkey, Grand Rapids, Mich. Magazine-gun.....	529,037	Nov. 13	929	220 221	69	835
Lispensard, George, Brooklyn, assignor to S. K. Lichtenstein, trustee, New York, N. Y. Cotton-harvester.....	517,050	Mar. 27	2309	523 524 525	66	1913
Lispensard, George, Brooklyn, N. Y., assignor, by mesne assignments, to Wallis-Lispensard Cotton Pickor and Machinery Company, of New Jersey. Cotton-harvester.....	517,409	Mar. 27	2841	665 666	66	2037
Lissauer, Sally, Dresden, Germany. Shoe.....	515,547	Feb. 27	2594	642	66	1384
List, John, London, England, and W. B. Smith, Glasgow, Scotland. Coffee-making machine.....	517,283	Mar. 27	2596	608 609	66	1968
List, John A., Bartleso, Ill. Wire-reeling machine.....	516,894	Mar. 20	1923	453	66	1843
Lister, Joseph, Pittsburg, Pa. Necktie.....	513,798	Jan. 30	3444	849	66	781
Lister, Joseph, Chicago, Ill. Piston-rod packing.....	524,831	Aug. 21	1485	362	68	963
Lister, Joseph, Chicago, Ill. Piston-rod packing.....	524,832	Aug. 21	1486	363	68	963
Lister, Joseph, Chicago, Ill. Reducing animal fat.....	526,322	Sept. 18	1738	411	68	1496
Lister, Joseph, Chicago, Ill. Boiler-furnace.....	528,958	Nov. 13	808	189	69	814
Liston, Alfred, and C. Schick, Imogene, Iowa. Corn-planter.....	514,943	Feb. 20	1601	402	66	1188
Litchfield, Harrison M., et al. (See Magee, James, assignor.)						
Litchfield, Isaac W., Warwick, N. Y. Ballot-folder.....	514,013	Feb. 6	60	15	66	866
Litchfield, Isaac W., and T. W. Sanford, Warwick, N. Y. Bicycle-brake.....	531,050	Dec. 18	1699	403	69	1555
Litchford, Frederick A., et al. (See Litchford, Miles, assignor.)						
Litchford, Miles, assignor of three-fourths to F. A. and N. Litchford and W. Jones, Columbus, Ohio. Stone-saw.....	519,636	May 8	1262	304	67	788
Litchford, Neil, et al. (See Litchford, Miles, assignor.)						
Littell, Matilda R. (See Littell, William J. and M. R.)						
Littell, Oriella I., Washington, D. C. Cleaning and polishing compound.....	529,281	Nov. 13	1357	-----	69	912
Littell, William J. and M. R., Washington, D. C. Gage-measure.....	526,926	Oct. 2	436	108	69	81
Litten, William F. (See Daugherty and Litten.)						
Little, Ambrose, Philadelphia, Pa. Sash-securing device.....	517,226	Mar. 27	2508	589	66	1971
Little, Daniel P. N., et al. (See Brown, Alford A., assignor.)						
Little, George. (See Jones and Little.)						
Little, James, assignor, by mesne assignments, of one-fourth to L. Larsson, San Francisco, Cal. Circular saw.....	528,602	Nov. 6	139	34	69	672
Little, James R., assignor to J. R. Little Metal Wheel Company, Quincy, Ill. Machine for npssetting or shrinking tires.....	523,288	July 17	1927	484	68	393
Little, John W. (See Browne and Little.)						
Little, Joseph J. (See Everett, George W., assignor.)						
Little, M. A. (See Maddox, John A., assignor.)						
Little, Orton C., assignor of one-half to D. T. H. McKinnon, Menasha, Wis. Core for casting.....	519,538	May 8	1097	263	67	750
Little, Peter, assignor to S. G. Scarritt, St. Louis, Mo. Reversible car-chair.....	521,120	June 5	653	153	67	1314
Little, Peter, assignor to S. G. Scarritt, St. Louis, Mo. Car-seat.....	521,121	June 5	654	154	67	1315
Little, Percy, Northumberland, Pa. Barrel-making machine.....	521,319	June 12	1006	237	67	1393
Little, William M., Vandalia, Ill. Tag-machine.....	519,264	May 1	581	142	67	650
Littlefield, Frank A., Pepperell, Mass. Steam-trap.....	513,648	Jan. 30	3216	789 790	66	739
Littlefield, Thomas E., Hillsborough, Tex. Combined elevator, cleaner, distributor, and feeder for seed-cotton.....	517,979	Apr. 10	930	233	67	190
Littlefield, Thomas E., Hillsborough, Tex. Combined elevator, cleaner, distributor, and feeder for seed-cotton.....	517,980	Apr. 10	932	233 234	67	190
Littlejohn, Charles F., Bridgeport, Conn. Sewing-machine.....	521,377	June 12	1115	263	67	1415
Litzinger, Thomas J., Patton, Pa. Nut-lock.....	527,179	Oct. 9	818	198	69	167
Livelsberger, Albert M., Kalamazoo, Mich. Hay-loader.....	520,324	May 22	2423	589	67	1031
Livermore, Homer F. (See Glines, Humphrey M., assignor.)						
Livermore, Ray F., Corry, Pa. Ticketing-machine.....	529,502	Nov. 20	1776	424	69	1008
Livro Incandescent Lamp Company. (See Forest, William E., assignor.)						
Livingston, Andrew W., San Francisco, assignor to J. Lee, San Mateo, Cal. Manufacture of metallic preserving-cans.....	517,580	Apr. 3	269	62	67	53
Livingston, Joseph, et al. (See Howe, Henry A., assignor.)						
Livingston, Samuel A., Brooklyn, N. Y. Exhaust-nozzle.....	514,941	Feb. 20	1602	402	66	1188
Livingston, Simon, Hoosick Falls, N. Y. Carpet-stretcher.....	512,305	Jan. 9	951	242	66	192
Livingstone, William, Flushing, N. Y. Tie-joint.....	530,281	Dec. 4	367	90	69	1282
Llewellyn, Arthur P., et al. (See Guy, Joseph P., assignor.)						
Lloyd, Edward W. (See Noble and Lloyd.)						
Lloyd, Edward W., and C. W. Hutchinson, assignors to W. G. Armstrong, Mitchell & Co., Limited, Newcastle-on-Tyne, England. Lannching-tube for torpedoes.....	517,390	Mar. 27	2811	656	66	2031
Lloyd, Edwin, Harvey, Ill. Balanced slide-valve.....	513,119	Jan. 23	2323	560	66	536
Lloyd, Edwin L., Philadelphia, Pa. School-slate.....	518,761	Apr. 24	2302	571	67	464
Lloyd, Ernest H. (See Smith and Lloyd.)						
Lloyd, James C., Avondale, Ill. Planter.....	515,151	Feb. 20	1929	483	66	1248
Lloyd, John M., Luverne, Minn. Book-snpport and leaf-holder.....	513,402	Jan. 23	2770	676	66	622
Lloyd, Louis H., Lincoln, Ill. Pump-motor.....	519,608	May 8	1209	291	67	779
Lloyd, Thomas S. (See Goode, Anthony, and Lloyd.)						
Lo Casto, Tony, assignor of one-half to H. Yakel, Marshall, Tex. Axle-box.....	519,403	May 8	852	206	67	715
Loando Hard Rubber Company. (See Green, John J., assignor.)						
Lobee, Bart, assignor to B. F. Lobee, Buffalo, N. Y. Combined spring-scale and screw-jack.....	522,993	July 17	1410	352	68	297
Lobee, Bart F. (See Lobee, Bart, assignor.)						
Lobet, Jean, Flémalle-Grande, near Liege, Belgium. Apparatus for enting glassware.....	530,189	Dec. 4	198	49	69	1251
Lobree, Isaac, San Francisco, Cal. Dough or batter kneader.....	522,999	July 10	1255	310	68	253
Lochner, John, New York, N. Y. Show-case.....	514,268	Feb. 6	506	125	66	948
Lock, Charles. (See Pouffe and Lock.)						
Lock, Frederic R. (See Davidson and Lock.)						
Locke, Edward A. (See Eisen, Herman J., assignor.)						
Locke, Edward M., et al. (See Phipps, George W., assignor.)						
Locke, Frank D., Hudson, assignor of one-half to A. H. Rice, Marlborough, Mass. Nailing-machine for boots or shoes.....	520,437	May 29	2611	632	67	1082
Locke, Fred M., Victor, N. Y. Relay.....	512,656	Jan. 9	1539	369	66	303
Locke, Fred M., Victor, assignor of one-half to G. A. Paddock, Auburn, and W. C. Page, Palmyra, N. Y. Insulator.....	520,367	May 22	2503	605	67	1047

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Locke, Joseph. (See Croskey and Locke.)						
Locke, Joseph D., Cosumne, Cal. Car-coupling.....	517,389	Mar. 27	2810	655	66	2031
Locke, Sylvanus D., Jr., Hoosick Falls, N. Y. Sheaf carrier and dumper for harvesters.....	524,991	Aug. 21	1756	{ 428 429 254 }	{ 68 68 68 }	{ 1012 1012 1367 }
Locke, Sylvanus D., Hoosick Falls, N. Y. Harvester.....	525,957	Sept. 11	1117	254	68	1367
Lockerby, Jacob S., <i>et al.</i> (See Crabb, George W., assignor.)						
Lockhart, Alexander M., Mitchell, S. D. Thrashing-machine.....	519,609	May 8	1211	292	67	779
Lockhart, Walter M., assignor of one-half to J. W. Douglass, Philadelphia, Pa. Vapor-burner.....	518,694	Apr. 24	2175	544	67	443
Lockman, Mary A., New York, N. Y. Barrel-stand.....	514,945	Feb. 20	1604	403	66	1189
Lockwood, George D., Stony Creek, Mich. Hand-tool for wire-working.....	514,371	Feb. 6	668	169	66	978
Lockwood, George D., Stony Creek, assignor of one-half to H. P. Glover, Ypsilanti, Mich. Implement for tightening fences.....	522,164	June 26	2511	603	67	1706
Lockwood, George W., Nutley, N. J. Skirt-extender.....	514,861	Feb. 13	1471	370	66	1149
Lockwood, John M. (See Lockwood, William C. and J. M.)						
Lockwood, John S. (See Knight and Harrington, assignors.)						
Lockwood, John S., <i>et al.</i> (See Gooding and Goudy, assignors.)						
Lockwood, John S., <i>et al.</i> (See Knight, Margaret E., assignor.)						
Lockwood, John S., <i>et al.</i> (See Knight and Gooding, assignors.)						
Lockwood, John S., <i>et al.</i> (See Steele, Herbert B., assignor.)						
Lockwood, Lawrence A. (See Montgomery, Albert F., assignor.)						
Lockwood, William C., New York, N. Y. Secondary battery.....	512,253	Jan. 2	864	.....	66	163
Lockwood, William C., assignor of one-fourth to J. H. Flagg, New York, N. Y. Telephony.....	518,742	Apr. 24	2276	565	67	459
Lockwood, William C. and J. M., Brooklyn, N. Y. Telephone.....	528,640	Nov. 6	219	54	69	686
Locomotiv-Fabrik Krauss & Company, Actien-Gesellschaft. (See Helmholtz, Richard, assignor.)						
Locomotive Feed Water Heater Company. (See Bernard, James A., assignor.)						
Locomotive Feed Water Heater Company. (See Martin, Edwin L., assignor.)						
Lodge, William, Cincinnati, Ohio. Lathe.....	522,607	July 10	744	{ 188 189 }	{ 68 68 }	{ 161 161 }
Loe, Thomas C., New York, N. Y., assignor to Standard Underground Cable Company, Pittsburg, Pa. Electric-cable joint.....	516,161	Mar. 6	687	162	66	1581
Loeben, Gustav A., assignor of two-thirds to C. and G. Falkenstein, Philadelphia, Pa. Combination gas and electric light fixture.....	529,451	Nov. 20	1682	402	69	992
Loeffler, Arthur, Chicago, Ill. Elastic-tread horseshoe.....	526,631	Sept. 25	2266	542	68	1606
Loenholdt Company. (See Lönholdt, Georg W., assignor.)						
Loewenbach, Hugo, Milwaukee, Wis. Check, receipt, or other stub book.....	519,769	May 15	1475	357	67	840
Loewenthal, Herman. (See Dentler, Siegmund, assignor.)						
Loewenthal, Marcns, New York, N. Y. Combination-suit.....	515,435	Feb. 27	2422	600	66	1352
Loewer, John A., and J. G. Sieber, Buffalo, N. Y. Sliding-door lock.....	527,797	Oct. 23	1849	444	69	388
Loewer Sole-Rounder Company. (See Crane, Joseph A., assignor.)						
Lofie, Henry, Syracuse, N. Y. Brick.....	523,076	July 17	1540	386	68	323
Loflin, Melville, Hildreth, Ill. Broom-rest.....	513,022	Jan. 16	2181	520	66	438
Lofton, Herbert M., Savannah, Ga. Automatic air-brake valve.....	514,153	Feb. 6	292	71	66	908
Lofton, Herbert M., Savannah, Ga. Locomotive-brake.....	516,569	Mar. 13	1385	329	66	1736
Lofton, Herbert M., Savannah, Ga. Triple valve for air-brakes.....	519,679	May 8	1329	321	67	800
Logan, David, assignor of one-half to T. H. Delamater, Meadville, Pa. Aneroid barometer.....	525,273	Aug. 28	2247	548	68	1116
Logan, Elmer, New Brunswick, N. J. Shaft-tug.....	524,529	Aug. 14	973	239	68	856
Logan, Swift & Brigham Envelope Company. (See Swift, Henry D. and D. W., assignors.)						
Logan, William P. (See Detwiler, John S., assignor.)						
Logan, William P. (See Detwiler and Logan.)						
Lohr, Benjamin, Fishertown, Pa. Car-coupling.....	529,396	Nov. 20	1578	375	69	973
Lombard, Edward C., assignor to C. Rogers & Bros., Meriden, Conn. Making knives or kindred articles of cutlery.....	515,835	Mar. 6	165	40	66	1484
Lombard, Levi W., Saco, Me., assignor to J. N. Smith and B. F. Spinney, Lynn, Mass. Operating electric loom-shuttles.....	513,615	Jan. 30	3149	774	66	727
Lombard, Levi W., assignor to B. F. Spinney and J. N. Smith, Lynn, Mass. Electric shuttle-motion for looms.....	514,087	Feb. 6	175	41	66	887
Lombard, Levi W., assignor to B. F. Spinney and J. N. Smith, Lynn, Mass. Electric shuttle-motion for looms.....	514,088	Feb. 6	179	42	66	888
Lombard, Levi W., assignor to B. F. Spinney and J. N. Smith, Lynn, Mass. Electric shuttle-motion for looms.....	514,089	Feb. 6	182	42	66	888
Lombard, Nathaniel, Boston, Mass. Car-brake system.....	523,436	July 24	2180	549	63	455
Lombard, Nathaniel, Boston, Mass. Lasting-machine.....	524,447	Aug. 14	845	207	68	833
Lombard, Nathaniel, Boston, assignor of one-half to H. A. Clark, Brookline, Mass. Manufacture of hose.....	513,799	Jan. 30	3445	850	66	782
Lombard, Nathaniel, Boston, assignor of one-half to H. A. Clark, Brookline, Mass. Automatic fire-extinguishing apparatus.....	514,154	Feb. 6	294	71	66	908
Lombard, Nathaniel, Boston, assignor of one-half to H. A. Clark, Brookline, Mass. Automatic fire-extinguishing apparatus.....	514,155	Feb. 6	296	71	66	909
Lombard, Nathaniel, Boston, assignor of one-half to H. A. Clark, Brookline, Mass. Automatic fire-extinguishing apparatus.....	514,657	Feb. 13	1136	283	66	1085
Lombard, Nathaniel, Boston, Mass., assignor to Automatic Lasting Machine and Manufacturing Company, Portland, Me. Lasting-machine.....	524,444	Aug. 14	835	{ 204 205 }	{ 68 68 }	{ 831 831 }
Lombard, Nathaniel, Boston, Mass., assignor to Automatic Lasting Machine and Manufacturing Company, Portland, Me. Lasting-machine.....	524,445	Aug. 14	837	{ 205 206 }	{ 68 68 }	{ 832 832 }
Lombard, Nathaniel, Boston, Mass., assignor to Automatic Lasting Machine and Manufacturing Company, Portland, Me. Lasting-machine.....	524,446	Aug. 14	841	{ 206 207 }	{ 68 68 }	{ 832 832 }
London Metallurgical Company. (See Cowper-Coles, Sherard O., assignor.)						
Lones, Jabez. (See Walker and Wilkins, assignors.)						
Lones, Jabez. (See Walker, Wilkins, and Lones.)						
Lones, Jabez, C. Vernon, and E. Holden, Smethwick, England. Wheel-tire.....	515,596	Feb. 27	2670	{ 663 664 }	{ 66 66 }	{ 1400 1400 }
Long, Albert, Lawrence, Mass. Cloth-cutting machine.....	525,502	Sept. 4	303	74, 75	68	1208
Long, C. C. (See Smith, Frank J., assignor.)						
Long, Charles. (See Korb, John A. and C. F., assignors.)						
Long, Charles E., Verona, Pa. Jar-closure.....	530,190	Dec. 4	200	49	69	1251
Long, Daniel W., and H. H. Walsh, Lockport, Ill. Spinning-top.....	525,788	Sept. 11	813	185	68	1313
Long, David L., Crawfordsville, Ind. Steam trap and feeder.....	522,020	June 26	2372	544	67	1661
Long, Eben W., Chicago, Ill. Regulating-valve for tanks.....	529,739	Nov. 27	2165	516	69	1088
Long, Edward. (See Pieper, Henry H., assignor.)						
Long, Frank, Port Wayne, Ind. Buggy-cushion.....	526,041	Sept. 18	1252	290	68	1404

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Long, Frank B., Los Angeles, Cal. Pianoforte and agraffo therefor	529,282	Nov. 13	1358	326	69	912
Long, Harriet L., West Toledo, Ohio. Insect-guard for doors	524,596	Aug. 14	1074	265	68	876
Long, J. Milton, Muncie, Ind., assignor of one-half to E. L. Dunlap, Sandusky, Ohio. Endless sign	526,905	Oct. 2	397	100	69	74
Long, James H., Liter, Ill. Fence	526,927	Oct. 2	438	108	69	82
Long, Jeremiah J., Chicago, Ill. Boiler	523,672	July 31	2601	648	68	548
Long, Joseph A., assignor to A. H. Eastmond, Brooklyn, N. Y. Heating and ventilating apparatus for street-railway cars	511,961	Jan. 2	393	91, 92	66	75
Long, Lewis M., Portersville, Cal. Insect-trap	514,946	Feb. 20	1605	403	66	1189
Long Manufacturing Company. (See Long, Timothy, assignor.)						
Long, Nathan H., assignor of one-half to D. W. Stewart, Muncie, Ind. Fruit-jar fastener	517,410	Mar. 27	2846	606	66	2038
Long, Thomas C., West Chester, Pa. Sliding and swinging gate	513,191	Jan. 23	2432	587 588	66	556
Long, Timothy, assignor to Long Manufacturing Company, Cleveland, Ohio. Dumping apparatus for railway-cars	527,117	Oct. 9	720	176	69	149
Long, Timothy, assignor to Long Manufacturing Company, Cleveland, Ohio. Dumping apparatus	527,118	Oct. 9	721	177	69	149
Long, Timothy, assignor to Long Manufacturing Company, Cleveland, Ohio. Dumping apparatus	527,119	Oct. 9	724	178	69	149
Longbach, Frederick. (See Sibbel and Longbach.)						
Longenecker, Samuel, Anderson, Ind. Window-shade	531,201	Dec. 18	1974	468 469	69	1604
Longinus, Joseph, assignor of one-half to M. P. Quinn, Pottsville, Pa. Lubricator	517,467	Apr. 3	90	20	67	19
Longmeyer, Emanuel. (See Healey, Williams, and Longmeyer.)						
Longsdorf, William H. (See Hewett, Gardner, assignor.)						
Longstreth, Charles H., et al. (See Smith, Daniel W., assignor.)						
Lönholdt, Georg W., Berlin, Germany, assignor to Loenholdt Company, Chicago, Ill. Steam-boiler	513,120	Jan. 23	2325	560	66	536
Lönnberg, Adolf L., Stockholm, Sweden. Inhaling apparatus	526,906	Oct. 2	400	100	69	74
Look, Frank N., Northampton, Mass. Knife-handle, brush-back, &c	519,068	May 1	222	52	67	579
Look, Luther, Soldier, Idaho. Ore-concentrator	526,242	Sept. 18	1600	375	68	1468
Loomer, Henry M., Hyde Park, and C. G. Belmer, Whitman, assignors to H. W. Eddy, Worcester, Mass. Rotary cutter-sleeve	522,262	July 3	159	42	68	32
Loomis, George, Parkersburg, W. Va. Stamp holder and moistener	519,190	May 1	448	110	67	624
Loomis, Gilbert J., Westfield, Mass. Sully	518,462	Apr. 17	1786	443	67	359
Loomis, John S., Brooklyn, N. Y. Sawing-machine	523,747	July 31	2741	680	68	572
Loomis, Leverett W., Carrollton, Ill. Drive-chain	515,004	Feb. 20	1687	424	66	1204
Loomis, Samuel L., Santa Cruz, and A. M. Harris, Watsonville, Cal. Animal-trap	521,378	June 12	1118	264	67	1416
Loomis, Walter T., Staffordsburg, Ky. Combined wire tension device, splicer, and stretcher	512,728	Jan. 16	1650	396	66	339
Looney, Joseph H., Gainesville, Tex. Cot	526,866	Oct. 2	328	81	69	62
Lorab, Mahlon B., Reading, Pa. Pulley	530,282	Dec. 4	368	90, 91	69	1282
Lorch, Ludwig H., Cannstadt, Germany. Machine for separating or sorting feathers	514,372	Feb. 6	669	169	66	979
Lord, Charles. (See Miller, James, assignor.)						
Lord, John, Wilmslow, and T. R. Leason, Levenshulme, assignors to S. Chatwood, Worsley, England. Check and indicator for railways	523,859	July 31	2941	733	68	610
Lord, John, Wilmslow, and T. R. Leason, Manchester, assignor to S. Chatwood, Worsley, England. Pointsman's indicator for railways	526,536	Sept. 25	2118	507	68	1578
Lord, Mildred M., Milwaukee, Wis. Washing-machine	529,869	Nov. 27	2385	570	69	1131
Lorenz, Charles A., Reynoldsville, Pa. Churn	531,440	Dec. 25	2417	575	69	1704
Lorenz, Paul, Berlin, and R. Wuppermann, Barmen, Germany. Match	525,150	Aug. 28	2054	501	68	1081
Lorenz, William A., assignor to A. H. Walker, trustee, Hartford, Conn. Making paper bags	517,617	Apr. 3	327	77, 78	67	64
Lorenz, William A., and E. E. Claussen, assignors to A. H. Walker, trustee, Hartford, Conn. Making paper bags	519,916	May 15	1710	420	67	885
Lorenz, William A., and E. E. Claussen, assignors to A. H. Walker, trustee, Hartford, Conn. Making paper bags	529,656	Nov. 20	2027	486	69	1055
Loretz, Arthur J. L., Brooklyn, N. Y. Compound engine	512,306	Jan. 9	952	233	66	193
Lorey, William, assignor to J. W. P. M., and J. F. Braun, Philadelphia, Pa. Filter	529,558	Nov. 20	1874	446	69	1026
Lorimer, John H., Philadelphia, Pa. Apron for textile machinery	521,912	June 26	2061	495	67	1624
Lorimer, William T., Detroit, Mich. Sham pillow	516,270	Mar. 13	879	206	66	1634
Loring, Charles M. (See O'Boyle, Thomas, assignor.)						
Loriot, Henry, assignor to H. F. Mouquin, trustee, New York, N. Y. Electric winding and setting clock	526,720	Oct. 2	84	22	69	18
Lorois, Maurice, assignor to Société Anonyme des Moteurs Thermiques Gardie, Nantes, France. Gas-motor	529,452	Nov. 20	1683	402 403	69	993
Lorois, Maurice, assignor to Société Anonyme des Moteurs Thermiques Gardie, Nantes, France. Manufacturing gas	529,453	Nov. 20	1690	404	69	994
Lorraine, Clarence L., East Jordan, Mich. Boiler-furnace	516,334	Mar. 13	974	231	66	1651
Lorsch, Jacob. (See Platt, Peter J., assignor.)						
Lortz, George W. (See Weir, John R., assignor.)						
Losch, John S., Summit Station, Pa. Pump	516,162	Mar. 6	688	162	66	1582
Losch, John S., Summit Station, Pa. Electric motor	526,016	Sept. 11	1204	276	68	1333
Losce, Frank B., et al. (See Blakeley, John D., assignor.)						
Loss, Henrik V., Philadelphia, Pa. Rotary valve	523,077	July 17	1541	366	68	323
Lossand, Nehemiah. (See Cook, Daniel, assignor.)						
Lossie, Henry F., Owensboro, Ky. Clock mechanism for operating gas-cocks	512,307	Jan. 9	953	233	66	193
Lothrop, Randolph C., Somerville, Mass. Street-car fender	515,868	Mar. 6	216	51	66	1494
Lotspeich, Rhoten E., Los Angeles, Cal. Apparatus for expelling flies from houses	519,793	May 15	1520	370	67	849
Lott, Charles C., Houston, Tex. Switch-operating mechanism	514,759	Feb. 13	1311	326	66	1118
Lott, William, Duquesne, Pa. Tongs	531,126	Dec. 18	1832	435	69	1579
Lottman, Albert C., Houston, Tex. Mosquito-net frame	515,123	Feb. 20	1878	422	66	1237
Lottridge, William M., assignor of one-half to J. F. Strayer, Portsmouth, Ohio. Surgical chair	524,969	Aug. 21	1703	418	68	1001
Lotze, Frederick B., Avondale, Ohio. Machine for lap-seaming sheet-metal tubes	524,554	Aug. 14	1018	250	68	864
Lothcheim, Joseph A., et al. (See Rosenfeld, Samuel J., assignor.)						
Lond, Philologos H., Jr., Charleston, S. C. Fish-trap	527,435	Oct. 16	1247	306 307	69	259
Louden Machinery Company. (See Louden, William, assignor.)						
Louden, William, Fairfield, Iowa. Pulley-block	524,177	Aug. 7	357	84	68	726
Louden, William, Fairfield, Iowa. Hay-carrier	525,425	Sept. 4	183	47	68	1185
Louden, William, Fairfield, Iowa. Hay-carrier apparatus	526,839	Oct. 2	277	67	69	53
Louden, William, Fairfield, Iowa. Jack and trip-pulley for hay-carriers	527,531	Oct. 16	1411	343	69	290
Louden, William, Fairfield, Iowa. Hay-elevator	530,232	Dec. 4	276	68, 69	69	1265

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Louden, William, assignor to Loudon Machinery Company, Fairfield, Iowa. Hay-carrier.	515,296	Feb. 20	2179	{ 540 541 }	66	1295
Louden, William, assignor to Loudon Machinery Company, Fairfield, Iowa. Hay-elevator.	527,530	Oct. 16	1408	343	69	290
Loudin, Fredrick J., Ravenna, Ohio. Key-fastener.	512,302	Jan. 9	954	233	66	193
Lougee, Amanda M., Boston, Mass. Covered button.	523,149	July 17	1639	492	63	350
Longee, Edwin A., Haverhill, Mass. Snare device for drums.	521,379	June 12	1119	264	67	1416
Lough, Samuel H. (See Hunter and Lough.)						
Loughmiller, Benjamin F., assignor, by mesne assignments, of one-half to T. Latta and J. W. Wist, Aspen, Colo. Padlock.	517,956	Apr. 19	893	225	67	185
Loughmiller, Benjamin F., assignor of one-half to A. S. Lamb and A. J. Robinson, Aspen, Colo. Railway-switch.	529,126	Nov. 13	1080	261	69	863
Lousaw, Francis, and T. E. Clarke, Bothwell, Canada. Insect-powder-dusting machine.	531,320	Dec. 25	2198	526	69	1661
Love, Harry H., Sacramento, Cal. Ventilator-car.	523,231	Oct. 30	2633	635	69	545
Love, John K., Silverton, assignor of one-third to E. Cameron, Cincinnati, Ohio. Hinge for rules and protractors.	512,199	Jan. 2	781	190	66	148
Love, Samuel D., New York, N. Y. Water-supply system.	514,090	Feb. 6	185	42	66	889
Lovejoy, Dimmitt R. (See Morse and Lovejoy.)						
Lovejoy, Herbert M., Boston, Mass. Apparatus for the manufacture of hydrogen gas.	526,243	Sept. 18	1603	376	68	1469
Lovell, James L. (See Welch and Lovell.)						
Lovett, Thomas J., Chicago, Ill. Ore-concentrator.	515,495	Feb. 27	2507	621	66	1368
Lovrien, George W., assignor to Southern Engine and Boiler Works, Jackson, Tenn. Duplex sawmill-dog.	512,586	Jan. 9	1419	342	66	280
Low, Abbot A. (See Johnson and Low.)						
Low, Abbot A., Brooklyn, N. Y. Card-canceling machine.	517,051	Mar. 27	2215	525	66	1914
Low, Cassandria, et al. (See Low and Thompson, assignors.)						
Low, Charles S., assignor of one-half to T. Bumann, Litchfield, Ill. Rain-water cut-off.	516,499	Mar. 13	1265	301	66	1704
Low, Hamilton F., assignor to L. Koehl, Cleveland, Ohio. Mop-wringer.	516,271	Mar. 13	881	206	66	1634
Low, Hamilton F., assignor to L. Koehl, Cleveland, Ohio. Mop-wringer.	516,272	Mar. 13	882	207	66	1634
Low, Hamilton F., assignor to L. Koehl, Cleveland, Ohio. Mop-head.	519,917	May 15	1712	420	67	886
Low, Hamilton F., and L. A. Thompson, New York, N. Y., assignors of one-third to M. W. Sanders, and said Low assignor of his remaining right to C. Low, Cleveland, Ohio. Dish-cleaner.	516,605	Mar. 13	1441	342	66	1737
Low, Isaac W., assignor of one-third to A. Ford, Washburn, Ark. Can-opener.	514,014	Feb. 6	61	15	66	866
Low, Joshua, and J. W. Gow, Steubenville, Ohio. Electric igniter for gas-engines.	515,297	Feb. 20	2182	541	66	1296
Lowcock, Sidney R., Birmingham, England. Filtration.	530,784	Dec. 11	1253	303	69	1459
Lowd, Mark, Salem, Mass. Intersecting electric railway-tracks.	528,959	Nov. 13	809	189	69	814
Lowder, Thomas J. (See Clines, Patrick, assignor.)						
Lowe, Austin, Minneapolis, Kan. Type-writing machine.	531,321	Dec. 25	2200	526	69	1661
Lowe, Ernest A., assignor to himself and J. Jones, Jr., New York, N. Y. Binding-post for electric instruments.	529,127	Nov. 13	1082	261	69	863
Lowe, Henry E., Macon, Ga. Shifting railway-switch.	516,100	Mar. 6	586	137	66	1562
Lowe, James A., North Branch, N. J. Wrench.	518,041	Apr. 10	1051	266	67	209
Lowe, Jesse. (See Christie, Lowe, and Lederle.)						
Lowe, John H., Neosho, assignor of one-half to A. H. Waite, Joplin, Mo. Burglar-alarm.	530,434	Dec. 4	620	155	69	1328
Lowe, Robert N., and F. C. Gnyser, assignors to Vulcan Brass Company, Cleveland, Ohio. Beer pump and faucet.	511,962	Jan. 2	395	92	66	75
Lowe, Thaddeus S. C., Norristown, assignor to Guarantee Trust and Safe Deposit Company, trustee, Philadelphia, Pa. Gas-cleaner.	529,625	Nov. 20	1973	470	69	1045
Lowe, Wilhelm O. A. See Taylor, George H., assignor.)						
Lowell, Frank P. (See Martel, Adelard F., assignor.)						
Lowell Oiler Company. (See Humphrey, Henry P., assignor.)						
Lowrie, Frederick H., Brooklyn, N. Y. Nursing-bottle support.	530,435	Dec. 4	622	155	69	1329
Lowry, George W. (See Connally, George R., assignor.)						
Lowman, John, London, England, assignor to P. Larios, Gibraltar. Machinery for finishing corks.	523,046	July 17	1500	373	68	315
Lowman, John, London, England, assignor to P. Larios, Gibraltar. Machinery for cutting corks.	527,865	Oct. 23	1968	473	69	408
Lowmiller, Alpheus. (See Lindsay, Tonner, and Lowmiller.)						
Lowrie, Harvey C., Denver, Colo. Permutation-padlock.	512,979	Jan. 16	2115	{ 502 503 }	66	426
Lowrie, Harvey C., Denver, Colo. Permutation-padlock.	512,980	Jan. 16	2118	503	66	426
Lowrie, William P., R. Barr, and G. Scott, Glasgow, Scotland. Packing-case for bottles.	523,673	July 31	2603	649	68	548
Lowry, Austin, assignor of two-thirds to J. H. Beem and G. Lowry, Roseville, Ohio. Pottery-machine for forming odd ware.	519,610	May 8	1213	292	67	780
Lowry, George, et al. (See Lowry, Austin, assignor.)						
Lowry, George A., Des Moines, Iowa, assignor, by mesne assignments, to Warder, Bushnell & Glessner Company, Springfield, Ohio, and Walter A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Automatic feeder for twine-making machines.	524,423	Aug. 14	805	197	68	825
Lowther, Thomas H., Toal, and R. Hay, Mount Pleasant, Pa. Safety-lamp.	521,801	June 26	1858	447	67	1586
Lowy, Max, New York, N. Y. Hand-bag, satchel, or valise.	524,466	Aug. 14	869	215	68	838
Lubbers, John H., New Kensington, assignor of one-half to R. E. Woods, Pittsburg, Pa. Manufacture of wire-glass and apparatus therefor.	527,754	Oct. 16	1770	{ 426 427 }	69	356
Lubowski, Hermann, assignor to Grusonwerk, Magdeburg, Germany. Hydraulic lift.	513,800	Jan. 30	3446	850	66	782
Lucas, Charles E. (See Godfrey, Leake, and Lucas.)						
Lucas, Harry, and J. Archer, Birmingham, England. Pedal for velocipedes.	512,729	Jan. 16	1651	397	66	339
Lucas, Henry, Lake, assignor to George Ziegler Company, Milwaukee, Wis. Lozenge-machine.	521,660	June 19	1615	379	67	1522
Lucas, James H. and J. D., St. Louis, Mo. Steam-motor.	517,981	Apr. 10	935	234	67	191
Lucas, John D. (See Lucas, James H. and J. D.)						
Lucas, Robert. (See Richards and Lucas.)						
Lucas, William C., Meriden, Conn. Door-operating device.	530,952	Dec. 18	1522	{ 360 361 }	69	1523
Lucashewski, Stany J., Racine, Wis. Knockdown table.	522,221	July 3	82	18	68	16
Luce, Don C., assignor of two-thirds to H. F. Crawford, Brockton, Mass. Gas-engine.	519,863	May 15	1632	397	67	771
Luce, Edwin W., Meadville, Pa. Oil-can and filler.	515,124	Feb. 29	1879	472	66	1237
Luce, William B., Brookline, Mass. Electric-arc lamp.	514,425	Feb. 6	740	{ 188 189 }	66	993
Luchesi, Ferdinand G. (See Zorn and Luchesi.)						
Luckey, John W., et al. (See Griesemer, Adam, assignor.)						
Luckhardt, Ludwig, Cassel, Germany. Fly-wheel band-brake.	515,915	Mar. 6	285	67	66	1506
Luckock, John S., Bellevue, Pa. Oil-well heater.	522,737	July 10	974	243	68	200
Ludde, Elard, Maspeth, N. Y. Fire-kindler.	525,912	Sept. 11	1034	234	68	1352
Ludington, Francis H., St. Louis, Mo. Register.	519,130	May 1	340	80	67	603

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Ludlam, Charles. (See Clark, Walter B., assignor.)						
Ludlow, Charles G., Chicago, Ill., assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Fusible plug	523,437	July 24	2182	549	68	455
Ludlow, George M., et al. (See Burton, Charles C., assignor.)						
Ludlow, Rodney F., Springfield, Ohio. Car-coupling	515,346	Feb. 27	2270	563	66	1323
Ludlow, Rodney F., Springfield, Ohio. Car-coupling	519,724	May 15	1407	340	67	828
Ludlow, Rodney F., Springfield, Ohio. Car-coupling	519,725	May 15	1408	340	67	828
Ludlow, William E., Cleveland, Ohio. Bucket hoisting and tripping apparatus	519,723	May 15	1405	{ 339 340 }	67	828
Ludovici, Georg W., Cassel, Germany. Self-acting brake for elevators	517,755	Apr. 3	575	141	67	111
Ludovici, William O., San Francisco, Cal. Gas-governor	521,283	July 3	160	42	68	32
Ludowici, Wilhelm, Tockgrim, Germany. Scale-tile for roofs	513,450	Jan. 23	2804	687	66	630
Ludwig, Adolf, Hoboken, N. J. Spring-catch	527,703	Apr. 3	481	116	67	93
Ludwig, John C., San Francisco, Cal. Electric ore amalgamating apparatus	527,150	Oct. 9	775	189	69	159
Ludwig, John H., and C. A. Ericsson, New York, N. Y. Upright-pianoforte action	515,152	Feb. 20	1932	484	66	1248
Ludwig, Martin, Albany, Or. Chimney-cap	512,981	Jan. 16	2120	503	66	426
Luedecke, Julius, Chicago, Ill. Portable fire-escape	512,730	Jan. 16	1653	307	66	339
Luehrs, Michel D., Cleveland, Ohio. Bolt-cutter	517,281	Mar. 27	2599	609	66	1989
Luehrs, Michel D., Cleveland, Ohio. Screw-cutting machine	521,172	June 12	750	176	67	1346
Lueheburg, John C., Lakeland, Minn. Motor	513,801	Jan. 30	3448	851	66	782
Lugo, Orazio. (See Vander Weyde and Lugo.)						
Lugo, Orazio, assignor to C. H. Jackson, New York, N. Y. Manufacturing sugar	512,200	Jan. 2	783		66	148
Lugrin Flexible Door Company. (See Lugrin, Horatio N. H., assignor.)						
Lugrin, Horatio N. H., Worcester, Mass., assignor to Lugrin Flexible Door Company, Portland, Me. Flexible door	520,065	May 22	1964	480	67	946
Luhn, Johann P., Leipsic, Germany. Rotary printing-press	521,268	June 12	914	{ 216 217 }	67	1376
Luitwieler, Clarence S. (See King, Charles W., assignor.)						
Lull, Lynn C. (See Everest and Lull.)						
Lumber District Mill Company. (See Schulz, Herman C., assignor.)						
Lumis, Thomas J., Hartford, Conn. Protractor and bevel	528,729	Nov. 6	357	87	69	711
Lumley, Edwin J., assignor to C. B. Brookes, Washington, D. C. Whistling toy	522,264	July 3	161	43	68	32
Lumm, Conrad, Garrett, Ind. Eaves-trough hanger	524,257	Aug. 7	488	113	68	749
Lumsden, James, New Rochelle, N. Y. Saw-mitering device	512,561	Jan. 9	1381	334	66	273
Lund, George R., New York, N. Y. Knockdown barrel	521,290	June 12	957	227	67	1383
Lundahl, Johan F., Homestead, Pa. Metal-sawing machine	518,572	Apr. 17	1966	{ 485 486 }	67	390
Lundahl, Johan F., Homestead, Pa. Apparatus for straightening beams	523,770	July 31	2779	690	68	579
Lundborg, Charles G., Philadelphia, Pa. Screw-propelled vessel	520,691	May 29	3047	{ 737 738 }	67	1162
Lundell, Robert. (See Johnson and Lundell.)						
Lundell, Robert, Brooklyn, assignor of two-thirds to E. H. Johnson, New York, N. Y. Alternating-current motor	516,213	Mar. 13	785	183	66	1615
Lundell, Robert, Brooklyn, assignor of two-thirds to E. H. Johnson, New York, N. Y. Means for suspending electric motors from cars	522,067	June 26	2342	{ 562 563 }	67	1675
Lundgren, Emil, Butler, Pa. Combination lock-hinge	520,436	Dec. 4	623	155	69	1329
Lundhohn, Erik M., St. Paul, Minn. Surgical cabinet and irrigating device	528,232	Oct. 30	2635	{ 635 636 }	69	545
Lundquist, Claus. (See Larson, Lars G., assignor.)						
Lundstrom, Carl J., assignor to D. H. Burrell & Co., Little Falls, N. Y. Centrifugal liquid-separator	514,156	Feb. 6	298	72	66	909
Lundstrom, Carl J., assignor to D. H. Burrell & Co., Little Falls, N. Y. Cheese-press	528,001	Oct. 23	2235	{ 539 540 }	69	457
Lunge, George. (See Lyte and Lunge.)						
Lunge, George, Zurich, Switzerland, and F. M. Lyte, London, England. Making nitric acid and caustic alkali	514,124	Feb. 6	230		66	898
Lunge, Hans C., Sorø, Denmark. Boiler-feeder	522,474	July 3	514	130	68	102
Lungen, Adam, assignor of one-half to R. Edwards, New York, N. Y. Self-winding electric clock	528,960	Nov. 13	811	190	69	814
Lunken, Edmund H., Cincinnati, Ohio. Subaqueous tunnel	522,232	July 3	83	18, 19	68	16
Lunken, Edmund H., assignor to Lunkenheimer Company, Cincinnati, Ohio. Tool for applying or removing renewable seats in straightway-valves	513,121	Jan. 23	2326	{ 560 561 }	66	536
Lunken, Edmund H., assignor to Lunkenheimer Company, Cincinnati, Ohio. Straightway-valve	523,537	July 24	2368	594	68	489
Lunkenheimer Company. (See Lunken, Edmund H., assignor.)						
Lunn, John, Philadelphia, Pa. Apparatus for spinning different-colored rovings into thread or yarn	520,793	June 5	56	13	67	1207
Lupfer, Edgar N., et al. (See Hiser, Sherman N., assignor.)						
Lurssen, Herman H., and C. W. Wood, Baltimore, Md. Easel	526,907	Oct. 2	403	100	69	75
Lushy, Comegys C., and C. H. Richardson, assignors to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Syringe	526,452	Sept. 25	1909	476	68	1556
Lusche, Frederick, assignor to Wolf, Saver & Heller, Chicago, Ill. Refrigerator	526,812	Oct. 2	233	57	69	44
Luscher, John, St. Louis, Mo. Adjustable miter-box	522,068	June 26	2343	563	67	1675
Luscomb, Frederick W., assignor to W. Lewis, New Bedford, Mass. Bomb-gun	523,289	July 17	1929	485	68	393
Luscomb, Henry H., Hartford, Conn. Trolley-wire insulator	512,888	Jan. 16	1964	466	66	399
Luscomb, Henry H., Hartford, Conn. Insulator	520,602	May 29	2889	698	67	1134
Luscomb, Henry H., Hartford, Conn. Insulating-turnbuckle	524,467	Aug. 14	870	215	68	838
Luscomb, Henry H., assignor to John Pratt Company, Hartford, Conn. Strain-insulator	515,779	Mar. 6	88	21	66	1470
Luscombe, Thomas T., Carthage, Mo. Water-filter	513,802	Jan. 30	3450	851	66	783
Luse, L. K., et al. (See Lilleberg, Charles L., assignor.)						
Lusher, Godfrey, Pasadena, Cal. Sash-balance	528,331	Oct. 30	2802	677	69	575
Lusk, Orson. (See Scarborough, Josiah S., assignor.)						
Lusk & Thurmond. (See White, Warren T., assignor.)						
Luster, Horace T., Berea, Ohio. Shot holding and measuring cabinet	513,803	Jan. 30	3452	851	66	783
Luster, Horace T., Berea, Ohio. Thread-cabinet	514,947	Feb. 20	1605	403	66	1189
Luster, Horace T., Berea, Ohio. Thread-cabinet	514,948	Feb. 20	1607	404	66	1189
Luther, Benjamin G., Worcester, Mass. Carrier-chain for feeding boards to woodwork-ing-machines	522,223	July 3	84	19	68	17
Luther, Henry R., Cambridge, Mass. Grate	529,503	Nov. 20	1779	424	69	1008
Luther, Henry R., Cambridge, Mass. Grate	529,504	Nov. 20	1780	424	69	1008
Lutner & Lederhos. (See Hutchins, Abner B., assignor.)						
Lutnes, Peter O., White Rock, S. D. Windmill	527,866	Oct. 23	1969	473	69	409
Lutomski, Agnes. (See Lutomski, George B., assignor.)						
Lutomski, George B., assignor to A. Lutomski, Pittsburg, Pa. Washboard	517,187	Mar. 27	2450	576	66	1960

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Lutz, Albert C., Cleveland, Ohio. Making paper boxes	521,031	June 5	495	118	67	1286
Lutz, Harry C. S., Philadelphia, Pa. Roller-bearing for journals	511,963	Jan. 2	397	92	66	76
Lutz, Matthäus, Stuttgart, Germany. Pattern for drafting garments	516,828	Mar. 20	1814	430	66	1623
Lutz, Ottmar H., Ann Arbor, Mich. Jeweler's anvil	521,802	June 26	1871	448	67	1587
Lutz, William D., Philadelphia, Pa. Electric elevator	520,794	June 5	57	13	67	1207
Lutzner, Maximilian A., Steglitz, Germany. Soot-separator	517,581	Apr. 3	270	62	67	53
Lux, Nicholas, assignor to H. Bradshaw, Topeka, Kans. Paper-feeding machine	529,927	Nov. 27	2477	597	69	1147
Lybe, Daniel I., Sidney, Iowa. Journal-bearing	524,065	Aug. 7	164	38	68	692
Lybrand, Edwin G. (See Vogt, Alonzo L., assignor.)						
Lycett, Frederick W., assignor to J. O. Davis, Hartford, Conn. Feed-water heater	526,188	Sept. 18	1505	352	68	1449
Lycett, Herbert J., Bryn Mawr, assignor to J. A. Brill, Philadelphia, Pa. Trolley-car	522,224	July 3	85	19, 20	68	17
Lydon, Martin W., North Andover, Mass. Life-guard for street-cars	529,687	Nov. 20	2029	486	69	1055
Lyford, Francis, Augusta, Me. Trunk	520,692	May 29	3049	739	67	1162
Lyle, Robert W. (See Strusholm, Anders M., assignor.)						
Lyle, Robert W., Woodbridge, N. J. Accompaniment-player for musical instruments	529,928	Nov. 27	2479	{ 597 598 }	69	1147
Lyman, Henry C. (See Sherwood, Charles H., assignor.)						
Lyman, William, Middlefield, Conn. Wind-gage sight	514,562	Feb. 13	976	246	66	1055
Lynam, John S. (See Adams and Lynam.)						
Lynam, John S., Winchester, Mass. Compensator for signal-operating wires	521,885	June 26	2000	482	67	1613
Lynam, John S., Winchester, Mass., assignor of two-thirds to C. S. Collins and G. F. Adams, Nashua, N. H. Semaphore-operating apparatus	528,961	Nov. 13	813	190	69	815
Lynam, John S., Winchester, Mass., and G. F. Adams, Nashua, N. H. Compensator for signal-operating wires	529,332	Nov. 13	1445	348	69	930
Lynam, John S., Winchester, Mass., and G. F. Adams, assignors of one-third to C. S. Collins, Nashua, N. H. Compensator for signal-operating wires	528,962	Nov. 13	814	190	69	815
Lynch, James A., St. Louis, Mo. Flexible pipe-coupling	523,553	July 24	2437	611	68	501
Lynch, James H., Westmoreland county, Pa. Circular-saw rounder	523,078	July 17	1543	386	68	323
Lynch, John D., Montague, assignor to Miller's Falls Company, Miller's Falls, Mass. Jack-screw	514,091	Feb. 6	186	42	66	889
Lynch, Mike, Sturgis, Mich. Crude-oil burner	517,411	Mar. 27	2847	667	66	2038
Lynch, Patrick H., Bristol, Conn. Picture-hanger	521,291	June 12	959	227	67	1383
Lynch, William B., Philadelphia, Pa. Skate-plane	522,994	July 17	1411	352	68	298
Lynn, Elmore P., Cincinnati, Ohio. Filter	521,591	June 19	1504	352	67	1501
Lynn Novelty Manufacturing Company. (See Allen, Frederick E., assignor.)						
Lyon, Daniel E., Oswego, Ill. Grapple	521,913	June 26	2063	495	67	1624
Lyon, Edward D. (See Whitaker and Lyon.)						
Lyon, Frank E., Dubuque, Iowa. Machine for covering piano-strings	515,597	Feb. 27	2672	664	66	1401
Lyon, Frederick W., Brooklyn, N. Y. Dress-stay	515,916	Mar. 6	287	67	66	1507
Lyon, Frederick W., Brooklyn, N. Y. Dress-stay	520,485	May 29	2695	652	67	1097
Lyon, Henrietta J., Newark, N. J. Waistband for trousers	512,254	Jan. 2	865	208	66	163
Lyon, John B., Brooklyn, N. Y., assignor to Law Battery Company, of New Jersey. Rheostat	515,241	Feb. 20	2081	517	66	1276
Lyon, William, Burlington, Iowa. Woodworking-machine	522,475	July 3	516	131	68	106
Lyon, William, assignor of two-thirds to W. Carson, Jr., and H. S. Rand, Burlington, Iowa. Woodworking-machine	518,529	Apr. 17	1894	469	67	378
Lyons, Charles J., assignor of two-thirds to H. J. and J. Weber, Joliet, Ill. Burglar-alarm	518,614	Apr. 24	2032	506	67	417
Lyons, Daniel C., Atlantic, Mass. Lath or shingle holder	527,613	Oct. 16	1540	373	69	314
Lyons, J. Monroe. (See Doble, Thomas, assignor.)						
Lyons, William H. B., Goshen, Ind. Heating-drum	525,990	Sept. 11	1163	264	68	1375
Lyster, Anthony G., Liverpool, England. Hopper and valve for hopper-dredgers	520,210	May 22	2240	545	67	995
Lytch, Milton, assignor to R. Lytch, Rowland, N. C. Meat-cutting machine	521,886	June 26	2001	483	67	1613
Lytch, Rosanna. (See Lytch, Milton, assignor.)						
Lyte, Farnham M. (See Lunge and Lyte.)						
Lyte, Farnham M., London, England, and G. Lunge, Zurich, Switzerland. Making caustic alkali and lead chlorid	514,125	Feb. 6	232	-----	66	898
Lytle, John, Ithaca, N. Y. Pipe-wrench	522,795	July 10	1080	267	68	220
Lytten, Osborne T., Lowell, assignor to G. M. McAden, McAdenville, N. C. Tire shrinking or upsetting device	529,740	Nov. 27	2166	516	69	1079
M. A. Furbush & Son Machine Company. (See Cromie, John, assignor.)						
M. A. Furbush & Son Machine Company. (See Mallison, Harvey P., assignor.)						
M. C. Bullock Manufacturing Company. (See Carter, Byron B., assignor.)						
M. E. Griswold Company. (See Rudy, Robert C., assignor.)						
M. Garland Company. (See Garland, Michael, assignor.)						
M. Ohmer's Sons Company. (See Ohmer, John F., assignor.)						
M. Thomsen Manufacturing Company. (See Thomsen, Max, assignor.)						
Maag, August, and F. S. Horn, Baltimore, Md. Warming-safe	518,042	Apr. 10	1052	267	67	209
Maag, George, Akron, Ohio. Furnace	530,489	Dec. 4	734	179	69	1349
Maass, Henry, Jersey City, N. J. Car fender and brake	522,530	July 3	603	{ 154 155 }	68	119
Mabbitt, Thomas J., Waveland, Kans. Oil-stove	512,309	Jan. 9	953	234	66	193
Maben, Benjamin S., Manchester, N. H. Combined couch, bed, and bath-tub	531,202	Dec. 18	1975	469	69	1604
Mable, William, Fort Collins, assignor of one-fourth to M. H. Akin, Larimer county, Colo. Automatic lock for air-brakes	526,189	Sept. 18	1507	351	68	1449
Macbray, James J., Worcester, Mass. Cutter for trimming soles of boots or shoes	530,699	Dec. 11	1112	270	69	1432
Maybe, Peter J., assignor of one-half to W. H. Ogilvie, Brooklyn, N. Y. Fishing-reel	529,658	Nov. 20	2030	487	69	1055
MacCord, Charles W., Hoboken, N. J., assignor to Pratt & Whitney Company, Hartford, Conn. Lathe for turning elliptical forms	531,203	Dec. 18	1977	470	69	1605
MacCoy, Andrew T., Boston, Mass. Electric switch	517,957	Apr. 10	900	225	67	185
MacDonald, Charles A. (See Levey, Butler, and MacDonald.)						
MacDonald, Charles A., Chicago, Ill. Pneumatic can-hoist for ice-machines	517,468	Apr. 3	90	20	67	19
MacDonald, Randolph. (See Still, William J., assignor.)						
MacDonald, John W., Pittsburg, Pa. Ore grinder and separator	531,127	Dec. 18	1833	{ 435 436 }	69	1579
MacDonald, Thomas H., Philadelphia, Pa. Shirt	529,181	Nov. 13	1185	285	69	881
MacDonald, William, Philadelphia, Pa. Treating garbage	528,002	Oct. 23	2237	-----	69	458
MacEachen, Samuel, assignor to National Boring and Drilling Company, Scranton, Pa. Well-drilling machine	513,240	Jan. 23	2516	606	66	574
MacElree, Matthew, Philadelphia, Pa. Automatic lamp-extinguisher	516,898	Mar. 20	1880	445	66	1636
MacFadden, Carl K. (See Peil and MacFadden.)						
MacGlashan, Thomas, Salem, Mo. Support for buggy-tops	521,415	June 12	1172	279	67	1426
MacKellar, Smiths & Jordan Company. (See Ziegler, George H., assignor.)						
MacKenzie, George W., assignor of two-thirds to M. B. Sloan and T. C. Sloane, Beaver, Pa. Electric-railway trolley	513,023	Jan. 16	2182	520	66	438

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MacKenzie, George W., M. B. Sloan, and T. C. Sloane, Beaver, Pa. Overhead trolley-wire switch.....	512,201	Jan. 2	784	191	66	148
MacKonzie, George W., T. C. Sloane, and M. B. Sloan, Beaver, Pa. Car-brake.....	515,692	Feb. 27	2830	{ 704 705 }	66	1431
MacLachlan, John, West Hoboken, N. J. Latch and lock.....	526,980	Oct. 2	506	124	69	95
MacLearn, John P., Philadelphia, Pa. Apparatus for sustaining punching-bags.....	519,918	May 15	1713	421	67	886
MacLeod, Charles J. L., Detroit, Mich. Fire-extinguisher.....	526,159	Sept. 18	1452	339	68	1440
MacMorris, Robert, Philadelphia, Pa. Detachable mustache shield or guard for cups.....	516,354	Mar. 13	1003	239	66	1657
MacPherson, Duncan, Montreal, Canada. Railway-switch.....	524,332	Aug. 14	619	150	68	793
MacDonald, Fred S., Portland, Me. Applying borders or binders to edges of paper-box blanks and articles made thereby.....	520,066	May 22	1966	481	67	946
Macarthy, Fred, assignor of one-half to Sayre & Fisher Company, Sayreville, N. J. Kiln for baking or burning bricks.....	518,153	Apr. 10	1220	306	67	239
Macarthy, Henry, assignor to S. A. Ilsley & Co., New York, N. Y. Sheet-metal satchel.....	525,848	Sept. 11	935	{ 209 210 }	68	1333
Macculloch, Andrew G. (See Dickinson and Macculloch.).....						
Macdonald, James, Edinburgh, Scotland. Boot-tree.....	522,069	June 26	2346	564	67	1675
Macdonald, John. (See Hagele, Anton, assignor.).....						
Macdonald, John T., Jr., Boston, Mass. Brake mechanism.....	523,362	July 24	2055	517	68	433
Macdonald, Thomas H., Bridgeport, Conn. Coin-controlled phonograph.....	523,748	July 31	2743	681	68	573
Macdonald, Thomas H., Bridgeport, Conn. Graphophone.....	527,755	Oct. 16	1773	427	69	357
Mace & Co., L. H. (See Schambrue, John, assignor.).....						
Mace, Romaine, assignor to Interior Conduit and Insulation Company, New York, N. Y. Insulator.....	522,428	July 3	451	114	68	90
Macfarlan, Duncan, Philadelphia, Pa. Waterproof insulated electric conductor.....	524,066	Aug. 7	165	38	68	692
Macfarlan, Duncan, Philadelphia, Pa. Composition of matter for electric conductors.....	526,721	Oct. 2	85	.....	69	19
Macfarlan, Duncan, Philadelphia, Pa. Composition of matter for electric conductors.....	526,722	Oct. 2	88	.....	69	19
Macfarlan, Duncan, Philadelphia, Pa. Rheostat.....	526,867	Oct. 2	339	81	69	62
Macfarlane, Thomas W., Ellensburg, Wash. Flanger.....	517,704	Apr. 3	485	116	67	93
Macgowan, Janet, Ardrossan, assignor of one-half to W. Hill, Glasgow, Scotland. Shirt-waist.....	514,720	Feb. 13	1251	312	66	1106
Machalski, Florentin J., assignor of one-half to T. Kornobis, Brooklyn, N. Y. Apparatus for extracting fat and glue.....	516,769	Mar. 20	1725	406	66	1804
Mack, William A., Norwalk, Ohio, assignor to Standard Sewing Machine Company, of Ohio. Thread-gripping device for sewing-machines.....	512,255	Jan. 2	866	209	66	163
Mack, William A., Norwalk, Ohio, assignor to Standard Sewing Machine Company, of Ohio. Thread-gripping mechanism for sewing-machines.....	519,539	May 8	1099	{ 263 264 }	67	759
Mackay, William M., Newark, N. J., assignor to Hart & Crouse, Utica, N. Y. Steam or hot-water boiler.....	525,274	Aug. 28	2250	{ 548 549 }	68	1117
Mackay, William R. (See Hiller and Mackay.).....						
Mackay, William R., Meriden, Conn. Bell.....	523,899	July 31	3004	747	68	622
Mackenstein, Hermann, Paris, France. Registering and marking apparatus for photographic film holders.....	518,372	Apr. 17	1636	{ 403 404 }	67	332
Mackenzie-Hughes, Edward W., assignor to Fox Solid Pressed Steel Company, Chicago, Ill. Tank-car.....	512,297	Jan. 9	939	{ 228 229 }	66	190
Mackey, Frank M., Philadelphia, assignor of four-fifths to C. C. Gibson and D. F. Ring, Williamsport, Pa. Rotary engine.....	525,558	Sept. 4	404	97	68	1226
Mackey, Frank M., assignor of four-fifths to C. C. Gibson and D. F. Ring, Williamsport, Pa. Rotary engine.....	525,559	Sept. 4	408	98	68	1227
Mackey, Samuel W. (See Rosenfeld and Mackey.).....						
Mackey, William T., assignor of three-fifths to J. W. Weart and A. B. Dockstader, Vancouver, Canada. Tire-tightener.....	521,661	June 19	1618	379	67	1522
Mackie, James S., Barre, Vt. Folding crib.....	526,081	Sept. 18	1321	306	68	1416
Mackie, James S., Barre, Vt. Motor.....	526,928	Oct. 2	439	108	69	82
Mackie, James S., Barre, Vt. Fan.....	526,929	Oct. 2	440	108	69	82
Mackie, Robb, New York, N. Y. Electric switch.....	517,582	Apr. 3	271	62	67	53
Mackin, Francis M., and C. R. Schmidt, Baltimore, Md. Bath-waste and supply-coupling.....	518,154	Apr. 10	1223	309	67	239
Mackinney, William C., Philadelphia, Pa., assignor to H. W. Butterworth & Sons Company, of Pennsylvania. Drying cylinder or drum.....	514,760	Feb. 13	1312	{ 326 327 }	66	1118
Mackinney, William C., assignor to H. W. Butterworth & Sons Company, Philadelphia, Pa. Drying-cylinder for textile machinery.....	529,038	Nov. 13	934	221	69	836
Mackison, John P. (See Mackison, Raphael J. and J. P.).....						
Mackison, Raphael J. and J. P., North Yakima, Wash. Hop-cleaning machine.....	525,913	Sept. 11	1035	234	68	1352
Macklin Adjustable Car Seat Company. (See Macklin, Athol B., assignor.).....						
Macklin, Athol B., assignor to Macklin Adjustable Car Seat Company, Chicago, Ill. Revolvable reclining car-chair.....	522,608	July 10	748	189	68	162
Macksey, John, and W. Helmer, assignors to American Soda-Fountain Company, Boston, Mass. Apparatus for and process of making carbonated beverages.....	511,903	Jan. 2	297	69, 70	66	57
Macksey, John, W. Helmer, Boston, and G. E. Barton, Somerville, assignors to American Soda-Fountain Company, Boston, Mass. Apparatus for making carbonated beverages.....	518,577	Apr. 17	1973	{ 488 489 }	67	391
Mackusick, Elmer F., assignor to Falk Automatic Photo. Company, New York, N. Y. Apparatus for developing, &c., photographs.....	525,849	Sept. 11	936	210	68	1333
MacLarren, Arthur W., Hennepin, Ill. Gate.....	528,174	Oct. 30	2527	{ 612 613 }	69	526
Macleod, William, New York, N. Y. Constructing water-tight pits or vaults.....	530,646	Dec. 11	1026	250	69	1417
Macloskie, Charles H., Schenectady, and H. M. Brinckerhoff, Matteawan, assignors to General Electric Company, Schenectady, N. Y. Electric railway.....	531,441	Dec. 25	2418	576	69	1704
Macneal, Charles B., assignor to E. Macneal, Philadelphia, Pa. Puzzle.....	524,258	Aug. 7	489	113	68	750
Macneal, Elizabeth. (See Macneal, Charles B., assignor.).....						
Macomber Chemical Fire Extinguisher Company. (See Macomber, Clarence R., assignor.).....						
Macomber, Clarence R., Worcester, Mass., assignor to Macomber Chemical Fire Extinguisher Company, Portland, Me. Fire-extinguisher.....	527,120	Oct. 9	725	178	69	149
Macphail, James, Rockford, assignor to A. Ellwood, De Kalb, Ill. Disk harrow.....	528,172	Oct. 30	2521	{ 610 611 }	69	525
Macphail, James, Rockford, assignor to A. Ellwood, De Kalb, Ill. Disk harrow.....	528,173	Oct. 30	2524	{ 611 612 }	69	526
Macphail, Neil, Glasgow, Scotland. Tobacco-pipe.....	521,380	June 12	1120	264	67	1416
Madden, Edward, Amsterdam, N. Y. Apparatus for inhaling vapors.....	513,804	Jan. 30	3453	851	66	784
Madden, James W., Brooklyn, N. Y. Railway-car fender.....	520,739	May 29	3123	756	67	1176
Maddock, Charles S., Trenton, N. J. Rack for decorating kilns.....	530,233	Dec. 4	240	69	69	1266
Maddock, William H., Pittsburg, Pa. Continuous rolling-mill.....	515,917	Mar. 6	288	{ 67 68 69 }	66	1507
Maddock, William H., Pittsburg, Pa., assignor to Wheeling Steel and Iron Company, Wheeling, W. Va. Plate-rolling mill.....	530,112	Dec. 4	63	17, 18	69	1227

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Maddox, John A., assignor of two-thirds to M. A. Little and W. Cooper, West Union, Ohio. Churn.....	531,204	Dec. 18	1980	470	69	1605
Maddy, William A., Pomeroy, Ohio. Thill-coupling.....	512,982	Jan. 16	2121	503	66	427
Madsen, Mads H., Kimballton, Iowa. Wagon-brake.....	525,850	Sept. 11	939	210	68	1334
Maercklin, Friedrich. (See Stoll and Maercklin.)						
Maerky, Friedrich. (See Wiederin, Mathäus, assignor.)						
Maes, Jacob, St. Louis, Mo. Earth-scraper.....	531,128	Dec. 18	1836	436	69	1580
Magee, James, assignor of one-half to H. M. Litchfield and G. F. Lamphere, Westerly, R. I. Loom harness-motion.....	516,163	Mar. 6	689	162	66	1582
Magenau, Otto, Fremont, Nebr. Display-rack.....	517,873	Apr. 10	744	187	67	158
Maggard, James H., Iowa City, Iowa, assignor to O. S. Kelly Company, Springfield, Ohio. Separator.....	529,454	Nov. 20	1693	404	69	994
Maggs, Thomas C., Detroit, Mich. Checkrein attachment.....	514,761	Feb. 13	1314	327	66	1119
Magnetic Electric Company of West Virginia. (See Brown, Edward H., assignor.)						
Magoris, Anthony E., Binghamton, N. Y. Brush.....	520,740	May 29	3125	756	67	1176
Magoris, Anthony E., Binghamton, N. Y. Brush.....	528,730	Nov. 6	359	88	69	712
Magovern, Edward E., and T. Scanlan, Branford, assignors to Yale & Towne Manufacturing Company, Stamford, Conn. Lock-case.....	526,323	Sept. 18	1739	411	68	1496
Magrane, Robert W., Brooklyn, N. Y. Electric safety device for elevators.....	513,122	Jan. 23	2328	561	66	537
Magunson, Charles M. (See Ogle and Magunson.)						
Maher, Thomas, Cleveland, Ohio. Lawn-sprinkler.....	530,620	Dec. 11	973	238	69	1409
Mahler, Adolph, et al. (See Moehn, John N., assignor.)						
Mahncke, Charles L., Columbus, Ohio. Chain pipe-wrench.....	514,721	Feb. 13	1252	312	66	1107
Mahon, Maurice R., and J. M. Crane, Newark, N. J. Trolley-pole connection.....	525,789	Sept. 11	813	156	68	1313
Mahon, Patrick T., Holyoke, Mass. Garment-pocket.....	530,542	Dec. 11	841	206	69	1385
Mahon, Terrence P., assignor to D. E. Crosby, Philadelphia, Pa. Furnace for burning refuse matter.....	523,478	July 24	2267	570	68	469
Mahoney, Michael F., San Francisco, Cal. Swinging window.....	521,472	June 19	1295	302	67	1464
Maidhof, Marguerite and V. E., New York, N. Y. Car-fender.....	522,070	June 26	2347	564	67	1676
Maidhof, Victor F. (See Maidhof, Marguerite and V. E.)						
Maier, Henry, Allegheny, Pa. Orange cup and pulp-remover.....	529,333	Nov. 13	1446	349	69	930
Maier, Karl F. G., Baltimore, Md. Machine for boring frames to be caned.....	514,762	Feb. 13	1314	{ 327 328 }	66	1119
Mail Horse Shoe Syndicate, (Foreign Patents.) (See Poupard, Mary E., assignor.)						
Maimin, Haymin. (See Emanuel and Spielmann, assignors.)						
Main, George B., Glasgow, Scotland. Crutch.....	529,659	Nov. 20	2031	487	69	1055
Maine, Edwin R., Mainesburg, Pa. Cultivator.....	517,227	Mar. 27	2509	589	66	1971
Maish, Levi, York, Pa. Removing articles from wells, &c.....	517,806	Apr. 3	651	163	67	127
Maisons, Gustave, 3d, et al. (See Chazotte, Jean F., assignor.)						
Maitland, James. (See Mitchell, Andrew, assignor.)						
Maiwald, Gustav. (See Cini and Maiwald.)						
Major, Albert D., Detroit, Mich. Machine for making and carding hooks and eyes.....	525,914	Sept. 11	1036	{ 235 236 237 }	68	1352
Major, Carl O., Dresden, Germany. Time-alarm.....	524,026	Aug. 7	97	21	68	680
Makepeace, Charles R. (See Praray, Charles A., assignor.)						
Malam, William, Fairfield, England. Fire-box for steam-boilers of locomotive type.....	524,902	Aug. 21	1588	389	68	981
Malam, William, Fairfield, and W. Schofield, Openshaw, England. Manufacture of man-holes and stand-pipes for steam-boilers.....	515,598	Feb. 27	2673	664	66	1401
Malby, George F. (See Wilson, Charles F., assignor.)						
Maley, Fredrick W., assignor of one-half to C. W. Hill and D. P. Alexander, St. Louis, Mo. Embossing-machine.....	519,961	May 15	1784	437	67	899
Maley, Frederick W., St. Louis, Mo., and J. H. Martindale, Russell, Pa. Retailing attachment for oil-tanks.....	523,816	July 31	2859	710	68	595
Malkemus, Louis F., Chicago, Ill. Guitar.....	523,079	July 17	1544	387	68	323
Mallalien, Frank. (See Tillinghast and Mallalien.)						
Mallard, John W. (See Bulloch and Mallard.)						
Mallett, Charles E., New York, N. Y. Bale-covering.....	518,820	Apr. 24	2401	{ 593 594 }	67	482
Malley, James J., assignor of one-half to H. J. Brinkenkamp, St. Louis, Mo. Range-tank.....	530,700	Dec. 11	1114	270	69	1432
Malley, John. (See McDermott, George, assignor.)						
Mallinckrodt, John F., Denver, Colo. Tobacco-pipe.....	525,465	Sept. 4	253	62	68	1198
Mallison, Harvey P., Lansdowne, Pa., assignor to M. A. Furbush & Son Machine Company, Camden, N. J. Warping or reeling machine.....	513,431	Jan. 23	2805	688	66	630
Malloch, Andrew M. (See Brogan and Malloch.)						
Mallock, Arnulph, London, England. Screw-driver.....	519,962	May 15	1787	437	67	899
Mallory, Frank B., Flemington, N. J. Ladder.....	521,381	June 12	1121	264	67	1416
Mallory, George W., Guilds, Canada. Door-check.....	512,202	Jan. 2	785	191	66	149
Mallory, James L., et al. (See Hill, Edward A., assignor.)						
Mallory, Lucilla, Bridgeport, Conn. Garment-stretcher.....	529,283	Nov. 13	1360	326	69	912
Malmros, August, Stockholm, Sweden. Centrifugal cream-separator. (Reissue).....	11,440	Sept. 4	630	148	68	1267
Malone, Frank P., assignor of one-half to J. Carrick, Evanston, Wyo. Slide-valve for steam-engines.....	521,592	June 19	1505	353	67	1501
Malone, Isaac M., Oskaloosa, Iowa. Water-gage for steam-boilers.....	513,649	Jan. 30	3218	790	66	739
Malby, Frank D., Englewood, N. J., assignor, by mesne assignments, to J. M. Whitney, Brooklyn, N. Y. Machine for cutting out cell-case blanks.....	517,651	Apr. 3	394	{ 94 95 96 }	67	76
Malby, Herbert S., Clarksville, Cal. Adjustable butter-mold.....	524,147	Aug. 7	310	73	68	718
Manahan, Thaddeus A., Fairfield, Tex. Fumigator.....	527,699	Oct. 16	1684	405	69	340
Manasse, Otto, Munich, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Making phenol alcohol.....	526,786	Oct. 2	197	.....	69	37
Manchester Manufacturing Company. (See Myers, David, assignor.)						
Mandel, Joseph, and J. P. Henderson, assignors to National Metallic Pocket Fastener Company, Logansport, Ind. Staple inserting and clinching machine.....	512,383	Jan. 9	1078	{ 263 264 }	66	215
Mandorfield, George J., assignor of one-half to J. M. and S. Lewin, U. S. G. Finkbimer, and A. R. Saylor, Royersford, Pa. Stop-motion for knitting-machines.....	512,310	Jan. 9	956	234	66	194
Mandot, John, New Orleans, La. Steam sad-iron.....	514,601	Feb. 13	1052	263	66	1068
Manger, John H. (See Griesemer and Manger.)						
Manhattan Brass Company. (See White, James H., assignor.)						
Manier, Benjamin F., Jr., Providence, R. I. Car-truck.....	529,284	Nov. 13	1360	326	69	912
Mankey, Carl F., Emporium, Pa. Folding bed.....	516,335	Mar. 13	976	{ 231 232 }	66	1651
Manley, Horace A., Boston, assignor to W. N. Osgood, Malden, Mass. Coin-controlled mechanism.....	520,931	June 5	337	82	67	1258

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Manley, Horace A., Boston, assignor to W. N. Osgood, Malden, Mass. Coin-controlled advertising machine.....	523,126	July 17	1652	413	68	345
Manley, Horace A., Boston, assignor to W. N. Osgood, Malden, Mass. Coin-controlled machine.....	524,833	Aug. 21	1487	363	68	963
Mann, Charles A., assignor of one-half to C. J. Slada, Buffalo, N. Y. Automatic fire-alarm.....	522,346	July 3	293	76	68	59
Mann, F. W. (See Farrington, Clarence H., assignor.)						
Mann, Franklin W., Milford, Mass. Bone-cutting machine.....	523,771	July 31	2781	691	68	579
Mann, Frederick, and H. H. Akers, London, England. Caster.....	523,772	July 31	2783	691	68	580
Mann, Frederick W., Franklin, Pa. Sash-fastener.....	513,805	Jan. 30	3456	852	66	784
Mann, John J., J. H. Smith, and H. G. Read, assignors to Fastian Cutting Machine Company, Limited, Salford, England. Speed-gearing.....	523,221	July 17	1817	455	68	373
Mann, Lee C., Gladbrook, Iowa. Electro hydrocarbon-engine.....	511,855	Jan. 2	171	43	66	36
Mann, Lester, and F. L. Anker, Albany, N. Y. Painter's scaffold.....	516,606	Mar. 13	1443	342	66	1737
Mann, Louis, New York, N. Y. Ear-ring.....	512,835	Jan. 16	1868	442	66	380
Mann, Marcellus, Clearfield, Iowa. Device for connecting hay rakes and loaders with wagons.....	520,532	May 29	2771	670	67	1111
Mann, Thomas, Baltimore, Md. Live-box for shell-fish.....	517,652	Apr. 3	399	96	67	77
Mann, William B., Baltimore, Md. Can-testing machine.....	521,935	June 26	2106	505	67	1633
Mann, William H. (See Pullan, Mann, and Gill.)						
Manning, Charles E., assignor to A. Allen, New York, N. Y. Apparatus for extinguishing fires.....	530,191	Dec. 4	201	50	69	1251
Manning, Edwin C., Washington, D. C., assignor to Cooper Chemical Company, of Kansas. Syringe.....	531,545	Dec. 25	2591	620	69	1737
Manning, Lemuel S., Chicago, Ill. Car-step.....	515,599	Feb. 27	2074	664	66	1401
Manning, Lemuel S., Chicago, Ill. Car-platform.....	515,600	Feb. 27	2076	685	66	1401
Manning, Lemuel S., Alessandro, Cal. Car-vestibule.....	515,601	Feb. 27	2077	685	66	1402
Manning, Lemuel S., Alessandro, Cal. Door for car-platforms.....	515,602	Feb. 27	2079	665	66	1402
Manning, William I., Roanoke, Ala. Plow.....	531,322	Dec. 25	2201	527	69	1662
Manning, William T., Baltimore, Md. Rail.....	523,222	July 17	1818	456	68	373
Mannlicher, Ferdinand, Vienna, Austria-Hungary. Feed mechanism for magazine-guns.....	518,921	Apr. 24	2402	594	67	482
Manross, Frederick N. (See Porter, Henry W., assignor.)						
Mansfield Cash and Package Carrier Company. (See Barrow, Thomas E., assignor.)						
Mansfield, Luther E., Brooklyn, N. Y. Clutch mechanism.....	530,701	Dec. 11	1115	271	69	1432
Mansfield, Martin W. (See McGee and Mansfield.)						
Mansfield, R. A., et al. (See Lee, John C., assignor.)						
Manville, Charles B., Milwaukee, Wis. Pipe-covering and manufacturing same.....	527,867	Oct. 23	1971	474	69	409
Manville, Frank B., Waterbury, Conn., assignor to Fast Color Eyelet Company, Springfield, Mass. Making lacing-studs.....	525,275	Aug. 28	2256	549	68	1118
Manville, Robert C., Waterbury, Conn. Machine for bending Jacquard hooks.....	515,347	Feb. 27	2272	564	66	1324
Manwaren, Albert H. (See Tompkins, William M., assignor.)						
Manwaring, Morris B., Boston, Mass., assignor of three-fourths to W. E. Eastman, Laconia, N. H. Cracker and making same.....	518,891	Apr. 24	2515	.....	67	504
Manwaring, Wesley, Southport, N. Y. Wagon-brake.....	516,101	Mar. 6	587	138	66	1562
Manz, John A., Philadelphia, Pa. Apparatus for the production of malt liquors.....	512,311	Jan. 9	958	231	66	104
Mapes, Oscar W., Middletown, N. Y. Stock feeding and housing device.....	513,806	Jan. 30	3457	852	66	784
Maple, Salomon C., Hebron, Nebr. Horse-moving truck.....	517,052	Mar. 27	2218	525	66	1914
Maples, Melvin, Hartwick, N. Y. Vine-stripper.....	517,469	Apr. 3	92	20, 21	67	20
Maquay, Samuel W., London, England. Primary battery and portable electric lamp.....	527,436	Oct. 16	1249	307	69	259
Marasse, Siegfried, Berlin, Germany. Making salicylic acid.....	529,182	Nov. 13	1126	.....	69	881
Marbach, Herman L. (See Ewert and Marbach.)						
Marberger, Anton, New York, N. Y. Zither-piano.....	517,285	Mar. 27	2000	609	66	1989
Marble, Edwin H. (See Marble, Edwin T. and E. H.)						
Marble, Edwin T., et al. (See Richardson, Willie A., assignor.)						
Marble, Edwin T., Worcester, Mass. Leather-cutting cylinder.....	525,052	Aug. 28	1883	461	68	1051
Marble, Edwin T. and E. H., Worcester, Mass. Mechanism for doubling webs of fabric longitudinally.....	523,363	July 24	2056	517	68	433
Marburg, Charles L., Baltimore, Md., assignor of one-half to American Tobacco Company, of New Jersey. Device for sprinkling casing material upon tobacco.....	519,191	May 1	450	110	67	624
Marburg, Charles L., Baltimore, Md., assignor of one-half to American Tobacco Company, of New Jersey. Machine for preparing and casing tobacco.....	519,637	May 8	1263	304	67	788
Marcean, Alfred, Springfield, and F. Minie, Chicopee, Mass. Rim for wheels.....	516,725	Mar. 20	1661	394	66	1793
Marcellus, Percy S., Philadelphia, Pa. Panoramic roll-holder camera.....	512,512	Jan. 9	1313	317	66	260
March, Milo O., Goshen, Ind. Folding stool.....	517,929	Apr. 10	840	211	67	176
March, R. J., et al. (See Gordon, Thomas J., assignor.)						
March, William, London, England. Bolt or rod cutter.....	518,615	Apr. 24	2033	506	67	418
Marchal, Alfred C., Paris, France. Machine for applying paraffin to cigarette-paper.....	528,332	Oct. 30	2803	677	69	575
Marckmann, Johannes C. A., Hamburg, Germany. Steam-boiler and fine scraper.....	530,621	Dec. 11	974	239	69	1409
Marcley, Charles W. (See Weber and Marcley.)						
Marcum, Thomas, Mascogee, Ind. Ter. Bridle.....	522,021	June 26	2273	545	67	1661
Marcum, William H. E., Kansas City, Mo. Ironing-table.....	516,273	Mar. 13	853	207	66	1634
Marcus, Martin H., Baltimore, Md. Stair-pad.....	521,593	June 19	1506	353	67	1501
Marcy, Alexander, Toronto, Canada, assignor of eleven-twentieths to J. Hanauer, Omaha, Nebr. Transposing keyboard.....	517,874	Apr. 10	745	187	67	158
Marcy, Merrick D., Worcester, Mass. Die for shaping spinning-rings from sheet metal.....	515,403	Feb. 27	2365	587	66	1341
Marcy, Merrick D., Worcester, Mass. Manufacturing spinning-rings.....	523,736	Jan. 31	2704	670	68	565
Marden, Aldie H., Waltham, Mass. Bell-cord hanger for cars.....	518,787	Apr. 24	2343	580	67	472
Marga, Udarique, Brussels, Belgium. Magazine bolt-gun.....	515,348	Feb. 27	2276	564	66	1325
Margach, Fred M., Meadville, Pa. Eccentric.....	515,349	Feb. 27	2279	564	66	1325
Margot, Charles, Geneva, Switzerland. Decorating glass with aluminium.....	527,210	Oct. 9	867	.....	69	177
Mariani, John, Boston, Mass. Pneumatic tire for bicycles.....	522,689	July 10	879	217	68	185
Marian Steam Shovel Company. (See Wright, James O., assignor.)						
Maris, Jared, Cincinnati, Ohio. Hub-band.....	511,783	Jan. 2	63	15	66	15
Maris, Jared, Cincinnati, Ohio. Hub-band.....	522,225	July 3	87	20	68	17
Maris, Jared, Cincinnati, Ohio. Point-band for vehicle-hubs.....	524,027	Aug. 7	99	21	68	680
Maris, Thomas C., Malta, Ohio. Sash-holder.....	525,551	Sept. 11	940	211	68	1334
Mark, Charles W., New York, N. Y. Illuminating-tile.....	526,244	Sept. 18	1605	376	68	1469
Mark, Charles W., New York, N. Y. Holder for attaching lenses to elevator-doors, &c.....	528,003	Oct. 23	2238	540	69	458
Mark, John W., New York, N. Y. Illuminating-tile.....	526,245	Sept. 18	1606	376	68	1469

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Mark, John W., New York, N. Y. Illuminating-tile.....	523,004	Oct. 23	2239	541	69	458
Markham, Herbert W., Syracuse, N. Y. Plate-lifter.....	515,242	Feb. 20	2063	517	66	1276
Markham, Samuel H., Cleveland, Ohio. Machine for making nuts.....	515,005	Feb. 20	1688	424 425 481 483	66	1204
Markham, Samuel H., Cleveland, Ohio. Machine for forging nuts.....	520,067	May 22	1967	482	67	947
Markley, Charles F., Hopkins, Mo. Nail-set.....	512,119	Jan. 2	651	156	66	125
Markley, John A., assignor of three-fifths to J. C. Carpenter, J. A. Roberts, J. L. Duncan, and J. C. King, Clifton Forge, Va. Safety attachment for car-couplings.....	521,243	June 12	870	206	67	1368
Markley, John A., assignor of three-fifths to J. C. Carpenter, J. A. Roberts, J. L. Duncan, and J. C. King, Clifton Forge, Va. Fastening for draft-beams.....	521,803	June 26	1871	448	67	1587
Marks, George E. (See Truax, Charles H., assignor.)						
Marks, Louis B., New York, N. Y., and C. Ransom, Passaic, N. J. Electric-arc lamp.....	520,996	June 5	438	105	67	1276
Marks, Louis B., assignor to Royal Arc Electric Company, New York, N. Y. Electric-arc lamp.....	521,936	June 26	2110	506	67	1634
Markus, Joseph, Detroit, Mich. Mixing-machine.....	528,175	Oct. 30	2529	613	69	526
Marleau, Evangeliste, assignor to himself, J. Bertrand, and J. Croze, Houghton, Mich. Holdback for vehicles.....	512,041	Jan. 2	520	123	66	100
Marlin Fire Arms Company. (See Hepburn, Lewis L., assignor.)						
Marlin, Henry A. (See Abrahams, John W., assignor.)						
Marlin, James T., Kansas City, Mo., assignor of one-third to A. Blaker, Kansas City, Kans. Cable-car-grip slot-brake.....	526,453	Sept. 25	2000	477	68	1556
Marlin, John M., New Haven, Conn. Detachably securing gun-barrels to stocks.....	529,455	Nov. 20	1694	405	69	994
Marmon, Daniel W., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Return-air purifier.....	513,123	Jan. 23	2330	561	66	537
Maroniez, Georges P. C., Boulogne-sur-Mer, France. Magazine-camera.....	528,176	Oct. 30	2530	613 614	69	527
Marqua, William A., Cincinnati, Ohio. Parasol for baby-carriages.....	522,265	July 3	162	43	68	32
Marquardt, Charles W., Detroit, Mich. Metallic shelf.....	517,349	Mar. 27	2709	636	66	2011
Marquart, Rudolf, assignor of one-half to G. Schneider, New York, N. Y., and L. Tisch, Hoboken, N. J. Insertible diamond saw-tooth.....	519,475	May 8	973	235	67	736
Marquart, Rudolf, assignor to himself, C. Brandt, Jr., New York, and E. B. Tompkins, Brooklyn, N. Y. Insertible saw-tooth.....	525,852	Sept. 11	942	211	68	1335
Marquart, Rudolf, assignor to himself, C. Brandt, Jr., New York, and E. B. Tompkins, Brooklyn, N. Y. Securing diamonds in stone-cutting tools.....	531,051	Dec. 18	1699	404	69	1555
Marquell, Henry M., Albany, Ind. Car-coupling.....	516,607	Mar. 13	1445	342	66	1737
Marquis, John, San Francisco, Cal. Basin-trap.....	526,666	Sept. 25	2332	558	68	1618
Marr, David C., et al. (See Steele, Herbert B., assignor.)						
Marr, John. (See Wagner, Louis, assignor.)						
Marr, John. (See Wagner and Marr.)						
Marr, John. (See Wagner, Marr, and Campbell.)						
Marr, Thomas, and J. Graham, Buena Vista, Va. Coop.....	514,949	Feb. 20	1609	404	66	1196
Marriott, Thomas A., Newberry, Mich. Steam-boiler.....	519,386	May 8	832	201	67	710
Marrissett, John, Vancouver, Canada. Car-brake handle.....	514,763	Feb. 13	1318	328	66	1119
Marron, Peter. (See McClimont and Marron.)						
Mars, Pascal L., Peoria, Ill. Vegetable-slicer.....	522,266	July 3	164	43	68	33
Marsch, Adolf, Halberstadt, Germany. School desk and form.....	523,538	July 24	2370	594	68	489
Marsden, Charles T. (See Marsden, William W., assignor.)						
Marsden, Thomas R., Oldham, England. Dust-trunk for cotton-openers.....	519,457	May 8	931	225	67	730
Marsden, William W., assignor of one-half to C. T. Marsden, Baltimore, Md. Seeding-machine.....	515,243	Feb. 20	2084	517	66	1276
Marsh, Calvin D., assignor to Rowley & Hermance Company, Williamsport, Pa. Outside molding-machine.....	513,192	Jan. 23	2433	588	66	557
Marsh, Calvin D., and A. D. Hermance, Williamsport, Pa.; said Marsh assignor to said Hermance. Reamer.....	525,466	Sept. 4	254	62	68	1198
Marsh, Cyrus, Washington, Miss. Plow.....	521,032	June 5	495	118	67	1286
Marsh, John A., assignor of one-half to P. B. Begg, St. Louis, Mo. Autographic register.....	520,022	May 15	1887	461 462 223 224 225 226	67	917
Marsh, Edward A., Newton, Mass. Ornamenting-machine.....	527,246	Oct. 9	927	432 433	69	148
Marsh, George H., Paterson, N. J., assignor to R. Erbslöh, Brooklyn, N. Y. Spinning-jenny.....	523,168	July 17	1727	432 433	68	356
Marsh, Joseph W., Pittsburg, Pa. Electric circuit.....	529,559	Nov. 20	1876	447	69	1026
Marshall, Arthur H. (See Johnston, Edward A., assignor.)						
Marshall, Bonnie W. (See Garlock and Marshall.)						
Marshall, Elias, Boston, Mass. Electrically-operated elevator.....	523,547	Nov. 6	40	10	69	653
Marshall, Ellis H., Fort Madison, Iowa. Ventilator for locomotive ash-pans.....	525,503	Sept. 4	305	75	68	1208
Marshall, Herbert, Los Angeles, Cal. Saw-set.....	518,260	Apr. 17	1419	355	67	292
Marshall, Herbert, Los Angeles, Cal. Sash-weight.....	527,151	Oct. 9	777	189	69	159
Marshall, Ianthus E., Martinez, Cal., assignor of one-half to A. Y. Werner. Shipping-crate.....	512,731	Jan. 16	1654	397	66	340
Marshall, James, Fall River, Mass. Mold for forming hats.....	517,470	Apr. 3	94	21	67	20
Marshall, Le Grand. (See Walker and Marshall.)						
Marshall, Otto, Cherry Spring, Tex. Wire stretcher and splicer.....	525,560	Sept. 4	411	99	68	1227
Marshall, Thomas F., Oakland, Cal. Shoe.....	523,784	Nov. 6	466	114	69	731
Marshall, Waldo H., assignor to Consolidated Brake Adjuster Company, Chicago, Ill. Slack-adjuster for brakes.....	518,110	Apr. 10	1156	290	67	227
Marshall, William J. (See Garlock and Marshall, assignors.)						
Marshman, Newman R. (See Burridge and Marshman.)						
Marston, Abbie L., Bedford, La. Bouquet-holder.....	522,910	July 10	1257	310	68	253
Marston, Nathaniel B., Lebanon, N. H. Floor-set.....	529,929	Nov. 27	2431	598	69	1148
Martel, Adelard F., assignor of one-half to F. P. Lowell, San Francisco, Cal. Apparatus for automatically delivering goods.....	517,412	Mar. 27	2848	667 668	66	2038
Marten, Fred W. (See Koehler and Marten.)						
Martens, Carl W. J., Hamburg, Germany. Cowl.....	520,368	May 22	2504	606	67	1047
Martin, Abraham S., et al. (See Davidson, David J., assignor.)						
Martin, Abraham S., et al. (See Pendry, William A., assignor.)						
Martin, Arthur A. (See Carson and Martin.)						
Martin, Burrell S., Angola, N. Y. Fish-hook.....	523,988	Aug. 7	38	9	68	669
Martin, Carl, assignor to Grusonwerk, Magdeburg-Buckau, Germany. Gun-embasur joint.....	518,155	Apr. 10	1225	307	67	239

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Martin, Carl E. R., Philadelphia, Pa. Motor for engine-governors.....	528,274	Oct. 30	2705	{ 652 653 }	69	558
Martin, Carl E. R., Philadelphia, Pa. Engine-reversing gear	528,275	Oct. 30	2708	653	69	559
Martin, Carl E. R., Philadelphia, Pa. Engine-governor	528,276	Oct. 30	2710	654	69	559
Martin, Charles E., Baraboo, Wis. Safety-fine	517,471	Apr. 3	95	21	67	20
Martin, Charles N., assignor of one-half to A. P. Benner, Willimantic, Conn. Let-off for looms	530,647	Dec. 11	1028	250	69	1417
Martin, Charles W., New York, N. Y. Letter-box	527,799	Oct. 23	1851	445	69	389
Martin, David B. (See Pugh and Martin.)						
Martin, Dennis B., assignor to Seamless Rubber Company, New Haven, Conn. Stopper for hot-water bags	525,853	Sept. 11	942	211	68	1335
Martin, Edouard, Paris, France, assignor to Oberschleische Eisen Industrie Actien-Gesellschaft für Bergbau und Hüttenbetrieb, Gleiwitz, Germany. Manufacture of bimetallic plates	522,347	July 3	294	77	68	59
Martin, Edwin L., Kern, assignor to Locomotive Feed Water Heater Company, Bakersfield, Cal. Circulating tubular boiler	525,958	Sept. 11	1119	254	68	1367
Martin, Francisco F., and F. V. De Bem, Gloucester, Mass. Guard for bicycle-seats	524,640	Aug. 14	1157	285	68	891
Martin, Frank D., Springfield, Vt. Scholar's companion	526,110	Sept. 18	1372	320	68	1426
Martin, George, Rock Rapids, Iowa. Plow	529,870	Nov. 27	2386	570	69	1131
Martin, George B., Indianapolis, Ind. Wrench for vehicles	515,436	Feb. 27	2423	600	66	1352
Martin, George H., San Francisco, Cal. Envelope	519,864	May 15	1634	398	67	871
Martin, George V., Whitby, Canada. Trace-buckle	515,780	Mar. 6	89	21	66	1470
Martin, Harrison S. (See Bliss, Henry H. assignor.)						
Martin, Henry. (See Muth and Martin.)						
Martin, Horace B., Chino, Cal. Undercut plow and subsoiler	520,932	June 5	338	82	67	1258
Martin, Horace B., Chino, Cal. Adding-machine	529,799	Nov. 27	2261	539	69	1106
Martin, James, assignor of one-half to L. N. Frederick, Baltimore, Md. Sanding device	527,437	Oct. 16	1251	307	69	260
Martin, James W., Omaha, Nebr. Baling-press	514,950	Feb. 20	1610	{ 404 405 }	66	1190
Martin, John, Belview, Minn. Hay rake and loader	531,205	Dec. 18	1982	471	69	1006
Martin, John E. (See Kahne, Adkins, Peirce, Martin, and Kahne.)						
Martin, John H., Massillon, Ohio. Mail-wagon	526,042	Sept. 18	1253	290	68	1404
Martin, John J., et al. (See Senior, James W., assignor.)						
Martin, John M., New York, N. Y. Riding-saddle	526,133	Sept. 18	1411	329	68	1433
Martin, John S., Snohomish, Wash. Marine propulsion	527,798	Oct. 23	1850	444	69	388
Martin, Joseph W. (See Crooker and Weinhold, assignors.)						
Martin, Kalbfleisch's Sons Company. (See Skoglund, Jean V., assignor.)						
Martin, Knott P., et al. (See Demmick, George W., assignor.)						
Martin, Mathew, Caledonia, N. Y. Railway-rail-joint splice and brace	514,862	Feb. 13	1472	370	66	1149
Martin, Michael I., Chicago, Ill. Conduit for electric railways	530,283	Dec. 4	370	91	69	1282
Martin, Morris, Malden, assignor of one-half to J. C. Edwards, Boston, Mass. Electro-mechanical gong	516,500	Mar. 13	1267	302	66	1701
Martin, Morris, Malden, assignor of one-half to B. W. Wells, Boston, Mass. Electroprotective system for locks	520,795	June 5	61	14	67	1209
Martin, Primus O., Paducah, Ky. Attachment for lanterns	523,223	July 17	1819	457	68	373
Martin, Robert H., New York, N. Y. Stove or furnace pipe	513,586	Jan. 30	3103	763	66	720
Martin, Samuel G., Branchport, N. J. Reefing sails	527,340	Oct. 9	1085	{ 262 263 }	69	216
Martin, Sidney, et al. (See Wall, Frederic W., assignor.)						
Martin, Stephen G., et al. (See Davidson, David J., assignor.)						
Martin, Stephen G., et al. (See Pendry, William A., assignor.)						
Martin, Stephen J. (See Hatch, Austin S., assignor.)						
Martin, Taylor, Fairmont, W. Va. Burial apparatus	529,456	Nov. 20	1696	405	69	995
Martin, Thomas A., Evansville, Ind. Adjustable bedstead	525,959	Sept. 11	1120	{ 254 255 }	68	1368
Martin, Thomas E. (See Shuck and Martin.)						
Martin, Thomas, F. Priestley, and L. D. Pierson, Mapleton, Iowa. Rotary engine	516,542	Mar. 13	1337	319	66	1718
Martin, Thomas N., assignor of one-third to U. G. Drummond, Cheyenne, Wyo. Halter square or corner-clasp	524,067	Aug. 7	165	38	68	692
Martin, William. (See McKenzie and Martin.)						
Martin, William, Dunkirk, N. Y. Pipe-coupling	521,122	June 5	655	154	67	1315
Martin, William, Dunkirk, N. Y. Hose-coupling	525,854	Sept. 11	943	211	68	1335
Martin, William, Dunkirk, N. Y. Hose-coupling	525,855	Sept. 11	945	212	68	1335
Martin, William H., Mobile, Ala. Hand fence-machine	512,732	Jan. 16	1655	{ 397 398 }	66	340
Martindale, John H. (See Maley and Martindale.)						
Martineau, Louis, La Roche, France. Life-saving device for tramways	512,836	Jan. 16	1869	442	66	381
Martinell, Olof O., Waltham, Mass. Stem winding and setting watch	523,841	July 31	2909	726	68	604
Martinez, Rafael, Pueblo, Colo. Delivery and registering loan-box	516,654	Mar. 20	1535	{ 365 366 }	66	1771
Martini, Hermann, Leipzig, Germany. Compoundable ship or boat	522,348	July 3	297	77	68	59
Martini, Hermann, Leipzig, Germany. Air-storing pipes in steam-heating plants	526,497	Sept. 25	2065	491	68	1568
Marty, Augustin, San Francisco, Cal., assignor of one-half to R. J. Lecomte, New York, N. Y. Boat and means for propelling same	515,548	Feb. 27	2504	{ 642 643 }	66	1385
Martyr, Leonard W., et al. (See Owen, Thomas, assignor.)						
Martz, Randolph N., Frederick, Md. Machine for forming turndown or roll collars	526,246	Sept. 18	1607	376	68	1469
Marugg, Erich L., Auerbach, Germany. Fastening for leather or rubber tips on billiard-cues	515,477	Feb. 27	2482	614	66	1363
Marvel, Philip, Atlantic City, N. J. Cabinet	514,126	Feb. 6	234	54	66	898
Marvel, Theodore L., Taunton, Mass. Elevating-bucket	524,043	Aug. 7	121	27	68	684
Marvin, Harry N. (See Casler, Herman, assignor.)						
Marvin, Judson L., Mauston, Wis. Dry closet or commode	518,616	Apr. 24	2034	506	67	418
Marvin, Newton R. (See Williams and Marvin.)						
Marx, George B., New York, N. Y. Street-sweeper	514,658	Feb. 13	1138	284	66	1085
Marx, George B., New York, N. Y. Body for milk-wagons	525,106	Aug. 28	1978	483	68	1067
Marx, Simon, et al. (See Pennington, Steve, assignor.)						
Marzynski, Morris A., Boston, Mass. Can for paint, putty, lard, &c.	521,033	June 5	496	118	67	1286
Maslen, James, New York, N. Y. Horseshoe	529,930	Nov. 27	2432	598	69	1148
Mason, Allan, Brooklyn, N. Y. Apparatus for drying brewers' grains	512,673	Jan. 9	1561	375	66	307
Mason, Arthur J., Kansas City, Mo. Machine for excavating trenches	516,355	Mar. 13	1004	{ 239 240 }	66	1657
Mason & Co., J. W. (See Dawson, John, assignor.)						
Mason, David, Schenectady, N. Y. Electric-railway system	519,794	May 15	1521	{ 370 371 }	67	819
Mason, David, Schenectady, N. Y. Conduit electric railway	530,543	Dec. 11	842	{ 207 208 }	69	1385

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Mason, David, New York, N. Y. Electric-railway system.....	530,192	Dec. 4	202	50	69	1252
Mason, Edgar T., Kansas City, Mo. Packing-barrel.....	521,804	June 26	1873	448	67	1587
Mason & Hamlin Organ and Piano Company. (See Richardson, John P., assignor.)						
Mason, Harry R., Chicago, Ill. Fluid-pressure signaling system.....	512,889	Jan. 16	1966	467	66	399
Mason, John, Petaluma, Cal. Gate.....	518,743	Apr. 24	2277	565	67	459
Mason Machine Works. (See Meats, John T., assignor.)						
Mason, Orlando. (See Parker, Homer N., assignor.)						
Mason, Orville L., and R. C. Cole, Cleveland, Ohio. Garment-hook.....	531,442	Dec. 25	2422	576	69	1705
Mason Regulator Company. (See Mason, William B., assignor.)						
Mason, Robert L., Butte, Mont. Track-cleaning apparatus.....	513,403	Jan. 23	2772	677	66	623
Mason, Solomon L., Medford, N. J. Corn-stubble cutter.....	520,068	May 22	1973	483	67	947
Mason, Thomas, Jacksonville, Ill. Clasp for watch-chains.....	524,782	Aug. 21	1394	340	68	947
Mason, Thomas B., Trenton, N. J. Radiator-truck.....	530,437	Dec. 4	624	155	69	1329
Mason, Thomas E. B., Shenandoah, Iowa. Pruning implement.....	518,469	Apr. 24	2096	523	67	428
Mason, Volney W., Jr., Hyde Park, Mass. Milling-machine.....	520,466	May 29	2696	653	67	1097
Mason, William, Pawtucket, R. I. Machine for burnishing horseshoes.....	523,989	Aug. 7	39	9	68	669
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Breech-loading firearm.....	513,808	Jan. 30	3461	{ 852 253 }	{ 66 66 }	785
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Cartridge-reloading implement.....	514,722	Feb. 13	1253	313	66	1107
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Electrical primer.....	520,116	May 22	2054	502	67	963
Mason, William, assignor to Winchester Repeating Arms Company, New Haven, Conn. Gas-operated gun.....	525,151	Aug. 28	2055	501	68	1081
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Valve mechanism.....	522,071	June 26	2349	565	67	1676
Mason, William B., assignor to Mason Regulator Company, Boston, Mass. Pump-regulator.....	523,900	July 31	3005	748	68	622
Massachusetts Mohair Plush Company <i>et al.</i> (See Wyman and Poole, assignors.)						
Massalski, Amandus, Chicago, Ill. Window.....	528,333	Oct. 30	2804	678	69	576
Massengale, William L., Deatsville, Ala. Vehicle-axle.....	524,903	Aug. 21	1588	339	68	981
Massey, Albert P., Watertown, N. Y. Automatic brake-valve.....	523,773	July 31	2784	691	68	580
Massey, Albert P., Watertown, N. Y. Drain-cup and strainer for air-pipes.....	530,702	Dec. 11	1116	271	69	1433
Massey-Harris Company. (See Johnston and Gray, assignors.)						
Massey-Harris Company. (See McBride, Thomas J., assignor.)						
Masterman, William H., Oakland, Cal. Sash-holder.....	518,413	Apr. 17	1699	421	67	344
Masters, William, Kansas City, Mo. Oil-heater.....	513,404	Jan. 23	2773	677	66	623
Masurel, Edmond, Tourcoing, France. Apparatus for dyeing.....	523,047	July 17	1502	{ 374 375 }	{ 68 68 }	315
Matchett, Alexander, assignor to J. Strassburger and A. Matchett Co., Pittsburg, Pa. Lace-fastener.....	512,256	Jan. 2	867	209	66	163
Matchett Co., Alexander, <i>et al.</i> (See Matchett, Alexander, assignor.)						
Matern, Herman, Albany, N. Y. Coin-controlled game apparatus.....	518,617	Apr. 24	2036	{ 506 507 }	{ 67 67 }	418
Matheny, Cicero D., Seattle, Wash. Bunk for logging-trucks.....	513,124	Jan. 23	2331	561	66	537
Matheny, Cicero D., Seattle, Wash. Automatic dump for unloading cars.....	527,868	Oct. 23	1973	474	69	409
Mather, Alonzo C., Chicago, Ill. Railway-track.....	530,113	Dec. 4	66	19	69	1227
Mather, Alonzo C., Chicago, Ill. Pneumatic spring.....	530,999	Dec. 18	1605	381	69	1537
Mather & Platt. (See Mather and Christie, assignors.)						
Mather & Platt. (See Pollard, James, assignor.)						
Mather, Thomas. (See Ayrton and Mather.)						
Mather, William, Manchester, England, and J. Christie, Alexandria, Scotland, assignors to Mather & Platt, Limited, Manchester, England. Apparatus for hanging webs in folds in drying-chambers.....	518,508	Apr. 17	1859	461	67	372
Mather, William H., Cleveland, Ohio. Razor-honing machine.....	523,438	July 24	2183	550	68	456
Mathers, Chester E., York Station, Ala. Rope-measuring machine.....	529,285	Nov. 13	1362	{ 326 327 328 }	{ 69 69 69 }	913
Mathers, Ezra A., Romeville, Ill. Underground conduit for electric roads.....	528,963	Nov. 13	816	{ 190 191 }	{ 69 69 }	815
Mathers, James W. (See Fowler, George, assignor.)						
Matheson & Co., William J. (See Austen, Peter T., assignor.)						
Mathews, Benjamin B. (See Barlett, Samuel E., assignor.)						
Mathews, Gilbert L., Newton, N. J. Bottle-stopper.....	521,473	June 19	1297	302	67	1464
Mathews, Henry R., Trenton, N. J., assignor of one-half to H. J. Bailey, Greeneville, R. I. Picker-check for looms.....	530,438	Dec. 4	625	156	69	1330
Mathews, James M. (See Young and Mathews.)						
Mathews, James M., Seattle, Wash. Gate-latch.....	520,117	May 22	2056	502	67	964
Mathews, John S., and A. T. Doyle, Pendleton, assignors of one-fourth to J. F. Killgore, Weston, Oreg. Rotary flanger and track-clearer.....	527,756	Oct. 16	1775	427	69	357
Mathews, Sylvester K., Albany, N. Y. Hair-curler.....	517,350	Mar. 27	2710	636	66	2011
Mathews, William, Alameda, Cal. Discharge attachment for oil-cans.....	517,618	Apr. 3	328	78	67	64
Mathews, William E. (See Dean and Mathews.)						
Mathewson, Edward P., Pueblo, Colo. Furnace-tap.....	515,244	Feb. 20	2084	518	66	1276
Mathewson, Jeremiah E., Sheffield, England. Sand-blast apparatus.....	531,379	Dec. 25	2301	549	69	1681
Mathewson, Matthew R., Detroit, Mich. Camp-stool and cane.....	517,351	Mar. 27	2711	636	66	2012
Mathey, Maurice. (See Peters and Mathey.)						
Mathias, David H., <i>et al.</i> (See Van Der Zee, Cornelius, assignor.)						
Mathiesen, Wilhelm, Leipzig, Germany. Electric-arc lamp.....	519,726	May 15	1410	340	67	829
Mathison, Arthur, Springfield, Mass. Lacing-stud.....	525,152	Aug. 28	2057	502	68	1081
Matic, Robert, Winnipeg, Canada. Folding bag-holder.....	514,481	Feb. 13	846	216	66	1030
Matlack, Robert C., Jr. (See Cranmer, William C., assignor.)						
Matson, Henry, <i>et al.</i> (See Gerlach, Emil, assignor.)						
Matt, Henry H., Long Island City, N. Y. Railway-switch.....	522,072	June 26	2352	565	67	1676
Matt, Joseph F. (See Matt, Lorenz and J. F.)						
Matt, Lorenz and J. F., Buffalo, N. Y. Piano.....	513,616	Jan. 30	3152	774	66	728
Matteson, George F., Chicago, Ill., assignor to Caspar Automatic Patent Company, Limited, New Orleans, La. Ticket-punch.....	517,053	Mar. 27	2218	526	66	1914
Matthes, Percy E., Philadelphia, Pa. Bicycle-signal.....	525,153	Aug. 28	2059	502	68	1081
Matthews, Ambrose T., assignor to Matthews Manufacturing Company, Worcester, Mass. Sheet-metal knob.....	527,438	Oct. 16	1252	308	69	260
Matthews, Charles, Columbia, Mo. Draft attachment.....	529,800	Nov. 27	2262	540	69	1106
Matthews, Edwin S., Cincinnati, assignor of one-half to J. L. Haven, Avondale, Ohio. Hydraulic valve.....	519,638	May 8	1264	305	67	789
Matthews, Edwin S., assignor of one-half to J. L. Haven, Cincinnati, Ohio. Hydraulic valve.....	519,639	May 8	1270	305	67	789

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Matthews, Edwin S., assignor of one-half to J. L. Haven, Cincinnati, Ohio. Hydraulic elevator	520,166	May 22	2161	526	67	981
Matthews, Gilbert L., Newton, assignor of one-half to T. W. Crane, Beemerville, N. J. Bottle-stopper	526,247	Sept. 18	1608	377	68	1469
Matthews, Hannah E., Grand Rapids, Mich. Shoulder-brace	514,834	Feb. 13	1431	360	66	1141
Matthews, James M., Seattle, Wash. Milk-receptacle	513,125	Jan. 23	2332	562	66	538
Matthews, James T., Shelbyville, Ind. Wrench	513,271	Jan. 23	2574	623	66	586
Matthews, Joseph, Brunswick, Ga. Composition of matter	521,382	June 12	1122		67	1416
Matthews, Joseph, New Bedford, Mass. Packing-displacer	531,546	Dec. 25	2592	621	69	1737
Matthews, Luther, Paris, Tenn. Folding chicken-coop	524,259	Aug. 7	489	113	68	750
Matthews Manufacturing Company. (See Matthews, Ambrose T., assignor.)						
Matthews, William, J. and W. Yates, Manchester, England. Apparatus for humidifying air and ventilating	516,770	Mar. 20	1726	406	66	1804
Matthews, William N., et al. (See Ruebel, Ernst, assignor.)						
Matthias, William C., and W. Hartman, Reading, Pa. Electric igniting apparatus for fire-engines	526,723	Oct. 2	89	22	69	19
Matthiessen, Franz O. (See Arkell and Blowers, assignors.)						
Matthiessen, Franz O., Irvington, and B. Arkell, Canajoharie, N. Y. Bag for containing granular material	527,558	Oct. 16	1449	353	69	298
Mattison, James D., Saginaw, Mich. Roller-bearing	515,006	Feb. 20	1693	426	66	1205
Mattison, James D., Saginaw, Mich. Roller-bearing	522,796	July 10	1081	267	68	220
Mattison, James D., Saginaw, Mich. Roller-bearing axle-box	527,121	Oct. 9	727	178 } 179 }	69	150
Mattison, James D., Saginaw, Mich. Antifriction roller-bearing	530,544	Dec. 11	844	208	69	1385
Mattocks, Frederick W. (See Ciancimino and Mattocks.)						
Mattson, Frederick V., assignor to Camden Iron Works, Camden, N. J. Hydraulic crane	517,008	Mar. 20	2112	500	66	1879
Mattou, Frederick V., assignor to Camden Iron Works, Camden, N. J. Pressure-regulator	524,970	Aug. 21	1706	420 } 421 }	68	1002
Mattoon, John A. (See Russell and Mattoon.)						
Mattson, Christ. C. (See Sorenson, Martinus, assignor.)						
Matusch, Johann, Daoville, Va. Watchman's time-detector	522,911	July 10	1258	311	68	254
Matz, Adam, Cincinnati, Ohio. Switch-actuating mechanism	528,005	Oct. 23	2240	541	69	458
Maunder, Frederick S. A., et al. (See Teate, Thomas A., assignor.)						
Mauden, Marion F., Glasgow, Mo. Snow-cleaning attachment for locomotive-engines	521,544	June 19	1420	330	67	1486
Mauermann, Albert J., Del Rio, Tex. Nut-lock	516,501	Mar. 13	1269	302	66	1705
Mauermann, Albert J., Del Rio, Tex. Skate-wheel	516,502	Mar. 13	1270	302	66	1705
Maul, Chris, assignor to D. S. Morgan & Company, Brockport, N. Y. Cultivator-tooth	523,603	Nov. 6	140	35	69	672
Maul, Chris, assignor to D. S. Morgan & Company, Brockport, N. Y. Cultivator-tooth	528,604	Nov. 6	141	35	69	672
Maul, Chris, assignor to D. S. Morgan & Company, Brockport, N. Y. Cultivator	529,457	Nov. 20	1697	405 } 406 }	69	995
Maule, Francis I., Philadelphia, Pa. Screw-cutting die	512,983	Jan. 16	2122	504	66	427
Maull, Edward N., Huntington, Fla. Orange-sorting machine	520,440	May 29	2615	633	67	1083
Maull, Ferdinand, Newark, N. J. Revolvable ash sifter	514,764	Feb. 13	1319	328	66	1120
Maumburg, Aaron. (See Wessel and Egger, assignors.)						
Maurer, Daniel, Middle Village, N. Y. Printing-press	526,248	Sept. 18	1609	377	68	1469
Maurer, Heinrich, Karlsruhe, Germany. Repeating mechanism for pianofortes	519,611	May 8	1214	293	67	780
Maurer, Henry. (See Frey, Benedict, assignor.)						
Maurer, Henry, New York, N. Y. Manufacturing porous bricks	520,266	May 22	2334		67	1014
Maurer, Henry W., Bay Ridge, N. Y. Thermometer	525,915	Sept. 11	1042	237	68	1353
Maurer, Joseph M., Washington, Pa. Obstetrical stirrup	529,626	Nov. 20	1974	471	69	1046
Maurer, Ludwig, assignor of one-half to D. P. Chesebro and A. E. Davidson, New York, N. Y. Folding pasting-table	517,756	Apr. 3	576	142	67	112
Maurer, Martin, St. Louis, Mo. Device for ornamenting pavements	519,919	May 15	1713	421	67	866
Maurer, William F. (See Hadley, Joshua A., assignor.)						
Maus, Daniel, Toronto, Canada. Machine for sewing looped fabrics	511,856	Jan. 2	175	43	66	37
Maus, Theodor, St. Louis, Mo. Temporary book-binder	522,267	July 3	105	43, 44	68	33
Maaser, Paul, Oberndorf, Germany. Magazine for breech-loading firearms	527,869	Oct. 23	1974	474 } 475 } 476 }	69	410
Maxfield, Leverett L., Brooklyn, N. Y. Cigarette-machine	518,261	Apr. 17	1420	355 } 356 }	67	292
Maxfield, Nelson, R. F. Griffin, and H. A. Speer, Renzi, Tex. Cultivator	523,020	July 17	1545	387	68	323
Maxim, Hiram S., Bexley, England. Apparatus for indicating the flow of fluids	522,995	July 17	1412	352	68	298
Maxim, Hosea F., Norfolk, Va. Automatic damper-regulator	513,948	Jan. 30	3677	905	66	829
Maxim, Hosea F., Norfolk, Va. Thermal alarm	522,022	June 26	2274	545	67	1661
Maxim, Hudson. (See Schuppbaas, Robert C., assignor.)						
Maxim, Hudson, New York, N. Y. Making chlorate blasting-powder	512,042	Jan. 2	522		66	100
Maxim, Hudson, New York, N. Y. Fulminating compound	529,334	Nov. 13	1447		69	930
Maxon, Daniel M., assignor of one-half to W. H. Whittemore, Bay City, Mich. Vessel steering-gear	526,030	Oct. 2	441	109	69	83
Maxon, Thomas, assignor of one-half to G. A. Miller, Dayton, Ohio. Lifting-jack	525,223	Aug. 28	2173	531	68	1101
Maxwell, Albert H. (See Giles and Maxwell.)						
Maxwell, Charles C., Watertown, S. D. Land-presser	517,352	Mar. 27	2712	637	66	2012
Maxwell, William R., Wakefield, Pa. Vehicle-pole	514,951	Feb. 20	1613	405	66	1190
May, Benjamin W., assignor of one-half to C. Bonner, Chicago, Ill. Furnace for brick-kilns	529,931	Nov. 27	2483	599	69	1148
May, Bernard H., and J. H. Morrissey, Chicago, Ill. Automatic advertising device	528,534	Oct. 30	2806	678	69	576
May, Harrison D., Larchwood, Iowa. Band-cutter and feeder	529,397	Nov. 20	1580	376	69	974
May, Simon, and L. M. Aron, Brooklyn, assignors to I. H. Hamburger, New York, N. Y. Souvenir medallion. (Reissue.)	11,455	Nov. 27	2773	665	69	1204
Maybeck, William, Somerville, Mass. Carving-machine	527,152	Oct. 9	778	190	69	159
Maybohm, Theodore G. (See Rice, Charles L., assignor.)						
Maybrick, Thomas, and W. J. Ashworth, Manchester, England. Safety-brake for elevators	526,931	Oct. 2	443	109	69	83
Mayent, Peter J., Springfield, Mass. Cover-holding device for furniture	524,534	Aug. 21	1488	363	68	964
Mayer, Carl J., Lynn, Mass. Fleshing-machine	526,724	Oct. 2	90	22, 23	69	19
Mayer, Frederick, Baltimore, Md. Gas-holder tank	519,963	May 15	1788	438	67	899
Mayer, Frederick, Baltimore, Md. Apparatus for manufacturing gas	523,224	July 17	1821	457 } 458 }	68	373
Mayer, John, Amsterdam, N. Y. Car-brake	521,034	June 5	497	118 } 119 }	67	1226
Mayer, John H., Waterloo, Canada. Let-off mechanism for looms	520,603	May 29	2890	698	67	1134
Mayer, Louis G., et al. (See Behlen, Charles A., assignor.)						
Mayer, Louis G., Cincinnati, Ohio, assignor of one-half to H. K. James, Covington, Ky. Lock prop-joint for carriage-tops	522,476	July 3	517	131	68	103

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Mayer, Louis H., Philadelphia, Pa. Pneumatic propeller	520,004	May 15	1856	454	67	911
Mayer, Max, Munich, Germany. Series photographic camera	525,991	Sept. 11	1164	265	68	1376
Mayer, Max, New York, N. Y., assignor to Auerbach-Woolverton Electric Company, of New Jersey. Electric-arc lamp	527,211	Oct. 9	868	211	69	177
Mayer, Maximilian, Orange, N. J. Seesaw	525,107	Aug. 28	1979	484	68	1067
Mayer, Moritz. (See Horn and Mayer.)						
Mayer, Reinhold, Bridgeport, Conn. Chopping-knife	527,002	Oct. 2	541	133	69	102
Mayer-Schlienen, Arthur, New York, N. Y. Artificial flower	514,482	Feb. 13	847	216	66	1031
Mayer, Sigmund. (See Altland and Mayer.)						
Mayes, Wilton P., assignor of one-half to P. N. Staff, Terre Haute, Ind. Pencil-sharpener	525,083	Aug. 28	1936	473	68	1060
Mayhew, George E., Manchester, N. H. Yarn-guide for spooling-frames	522,378	July 3	348	89	68	69
Mayhew, George S., assignor to C. A. Smith, Minneapolis, Minn. Artificial lumber or composition material	517,822	Apr. 3	672	163	67	130
Mayland, Rowland H., Freeport, N. Y. Musical instrument	531,323	Dec. 25	2202	527	69	1662
Maynadier, James E., Taunton, Mass. Dynamo-electric machine	515,882	Mar. 6	232	54, 55	66	1497
Maynard, Charles A., Springfield, Mass. Conduit electric railway	518,695	Apr. 24	2177	544	67	443
Maynard, George H., Boston, Mass. Ventilating and heating apparatus	514,329	Feb. 6	609	154	66	967
Maynard, Kitchell A., assignor of one-half to W. M. and G. M. Randall, Kansas City, Mo. Safety-brake	513,432	Jan. 23	2808	688	66	630
Mayne, Charles R., Toledo, Ohio. Bicycle	520,796	June 5	68	14	67	1210
Mayo, Samuel P., Richmond, Va. Cooling-channel for ordering tobacco	520,441	May 29	2618	634	67	1084
Mayo Tobacco Drying and Ordering Company. (See Peple, Gustavus A. and C. A., assignors.)						
Mayr, George, Brooklyn, assignor of one-half to E. Farmer, New York, N. Y. Electric lamp for bicycles	521,721	June 19	1719	406	67	1543
McAdams, Samuel L. (See Kollenberg, George A., assignor.)						
McAden, G. M. (See Lytton, Osborne T., assignor.)						
McAllep, John W. (See Arnoulds, Charles, assignor.)						
McAllister, Firm of T. H. (See Prowse, George R., assignor.)						
McAllister, John, assignor to W. S. Doig, Brooklyn, N. Y. Saw filing and setting machine	523,749	July 31	2746	{ 681 682 }	68	573
McAlpin, Aaron C., Guyton, Ga. Combined cup, funnel, and stopper-securer	518,530	Apr. 17	1897	470	67	378
McAnulty, John A., Manheim, assignor, by mesne assignments, to W. T. Nelson and J. H. Small, York, Pa. Chop-grading machine	526,017	Sept. 11	1206	277	68	1383
McAnulty, John A., Manheim, assignor, by mesne assignments, to W. T. Nelson and J. H. Small, York, Pa. Feed-regulator	526,254	Sept. 18	1621	380	68	1472
McArdle, Frank J., and J. B. Fmray, Omaha, Nebr. Card-holder	513,714	Jan. 30	3325	821	66	759
McArdle, Frank J., and J. B. Fmray, Omaha, Nebr. Bracket and card-holder	518,326	Apr. 17	1535	382	67	312
McArdle, Fred W. (See Judd and McArdle.)						
McArdle, Fred W., assignor to E. C. Judd, Boston, Mass. Mechanical movement	523,170	July 17	1731	433	68	357
McArdle, Fred W., assignor of two-thirds to E. C. Judd, Boston, and A. C. Paul, Lynn, Mass. Molder or former	523,228	July 17	1829	460	68	375
McArthur, John. (See Rochester and McArthur.)						
McAuley, Robert G., Pittsburg, Pa. Feed-water heater and purifier	514,954	Feb. 20	1619	{ 406 407 }	66	1192
McAusland, William, assignor to Reed & Barton Corporation, Taunton, Mass. Fruit-holder	524,645	Aug. 14	1163	286	68	893
McBean, Alexander S., Montreal, Canada. Trolley-pole	522,915	July 10	1265	313	68	55
McBerty, Frank R., Downer's Grove, assignor to Western Electric Company, Chicago, Ill. Electro-magnet	512,386	Jan. 9	1091	{ 264 265 }	66	218
McBride, Andrew, <i>et al.</i> (See Kerwin, John, assignor.)						
McBride, Henry, assignor to W. F. Day and J. P. Lavigne, New Haven, Conn. Micrometer-gage	519,541	May 8	1102	264	67	760
McBride, John, Philadelphia, Pa. Dumping-wagon	525,506	Sept. 4	309	76	68	1209
McBride, John E., New York, N. Y. Fender for railway-cars	520,857	June 5	189	42	67	1231
McBride, Thomas J., Winnipeg, Manitoba, assignor to Massey-Harris Company, Toronto, Canada. Cultivator	517,962	Apr. 10	908	227	67	186
McBride, Wilber. (See Williamson, David, assignor.)						
McBrien, Frank, Newark, N. J. Electrically-controlled railway-signal	512,050	Jan. 2	531	125	66	102
McBrien, Frank, Newark, N. J. Electrically-controlled railway-signal	512,051	Jan. 2	534	126	66	102
McCabe, Bernard, and A. Thayer, Boston, Mass. Molding vegetable fibrous material	530,958	Dec. 18	1533	.....	69	1525
McCabe, Charles M. (See Dow, George E., assignor.)						
McCabe, James W., New York, N. Y. Machine for mounting photographic prints	529,183	Nov. 13	1188	{ 285 286 }	69	881
McCahey, John, assignor to New England Butt Company, Providence, R. I. Braiding-machine	522,481	July 3	524	133	68	104
McCahey, John, assignor to New England Butt Company, Providence, R. I. Friction-clutch pulley	522,531	July 3	604	155	68	119
McCall, George H., Massillon, Ohio. Music-stand	524,181	Aug. 7	362	86	68	727
McCall, Harry M., Latrobe, assignor of eleven-twelfths to R. G. Kennedy and B. D. Reed, Pittsburg, Pa. Steam-engine	519,528	May 8	1177	283	67	774
McCall, William W., assignor of one-half to W. T. Waite, Kansas City, Mo. Reciprocating fan	518,852	Apr. 24	2445	606	67	490
McCallister, John P., Avoca, Wis. Grain heater or steamer	527,442	Oct. 16	1256	309	69	261
McCallum, Archibald, Conrad, Pa. Wrench	521,123	June 5	656	154	67	1315
McCambridge & Company. (See Howell, George B., assignor.)						
McCamey, Charles M., and S. H. Root, assignors to N. L. Root, Longmont, Colo. Adjustable electrolier	518,198	Apr. 10	1318	329	67	258
McCann, Edward. (See Hussey and McCann.)						
McCann, George W., Springfield, Ohio. Ensel	513,195	Jan. 23	2441	589	66	558
McCants, Laurence W. (See Hardy and McCants.)						
McCarrier, John T., assignor of five-sixths to E. S. Austin, A. C. Paul, and C. G. Hawley, Minneapolis, Minn. Carburetor	515,440	Feb. 27	2428	601	66	1353
McCarroll, Charles T., Ottumwa, Iowa. Sheet-metal stove	524,342	Aug. 14	663	162	68	798
McCarten, George I., and A. R. Dickason, Kansas City, assignors of one-third to B. J. O'Neil, Armourdale, Kans. Dish-cleaner	522,565	July 3	664	169	68	130
McCarthy, Charles A. (See McCarthy, Joseph J. and C. A.)						
McCarthy, Dennis. (See McCarthy, John J., assignor.)						
McCarthy, Dennis, Miner's Mills, Pa. Car-axle lubricator	521,807	June 26	1876	449	67	1558
McCarthy, Jeremiah J. and J. J., Philadelphia, Pa. Pipe-cutter	531,549	Dec. 25	2596	621	69	1737
McCarthy, John, <i>et al.</i> (See Pittman, Harrison, assignor.)						
McCarthy, John, Newark, N. J. Fender for cars	529,041	Nov. 13	939	222	69	837
McCarthy, John J. (See McCarthy, Jeremiah J. and J. J.)						
McCarthy, John J., Boston, assignor of one-half to D. McCarthy, Newton, Mass. Hame	520,071	May 22	1978	484	67	948
McCarthy, Joseph J. and C. A., Dodsonville, assignors of one-half to H. D. Waddell and J. M. Clark, Hillsborough, Ohio. Spring-motor	515,352	Feb. 27	2282	565	66	1326

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McCarthy, Justin J., <i>et al.</i> (See Fox, Edward, assignor.)						
McCarthy, Louis, Boston, Mass. Insulated rail-chair	513,950	Jan. 30	3681	906	66	830
McCarthy, Louis, Boston, Mass. Insulator	517,621	Apr. 3	335	79	67	66
McCarthy, Louis, Boston, Mass. Trolley-wire insulator	518,971	Apr. 10	1092	276	67	216
McCarthy, Louis, Boston, Mass. Strain-insulator	518,373	Apr. 17	1638	404	67	332
McCarthy, Louis, Boston, Mass. Insulator	520,606	May 29	2895	699	67	1135
McCarthy, Louis, Boston, Mass. Trolley-wire support	520,937	June 5	314	84	67	1260
McCarthy, Louis, Boston, Mass. Insulating-turnbuckle	524,684	Aug. 14	1292	298	68	903
McCarthy, Louis, Boston, Mass. Insulator	530,706	Dec. 11	1121	272	69	1433
McCarthy, Louis, Boston, Mass. Insulator	531,423	Dec. 25	2373	568	69	1695
McCarthy, Micheal, St. Louis, Mo. Smokeless boiler-furnace	527,532	Oct. 16	1412	343	69	291
McCarthy, Mitchell F., Chicago, Ill., assignor to Suspension Arch Fire Proofing Company, of Illinois. Fireproof structure	514,955	Feb. 20	1621	407	66	1192
McCarthy, Mitchell F., Chicago, Ill., assignor to Suspension Arch Fire Proofing Company, of Illinois. Fireproof building	520,489	May 29	2703	655	67	1098
McCarthy, Mitchell F., Chicago, Ill., assignor to Suspension Arch Fire Proofing Company, of Illinois. Fireproof structure	520,490	May 29	2705	655	67	1099
McCarthy, Mitchell F., Chicago, Ill., assignor to Suspension Arch Fire Proofing Company, of Illinois. Construction of fireproof floors, &c.	520,491	May 29	2707	656	67	1099
McCarthy, Mitchell F., Chicago, Ill., assignor to Suspension Arch Fire Proofing Company, of Illinois. Fireproof floor, ceiling, &c.	520,492	May 29	2709	656	67	1100
McCarthy, Thomas, Boston, Mass. Desk	522,849	July 10	1156	267	68	234
McCarthy, William J., Menominee, Mich. Whirligig	517,228	Mar. 27	2510	599	66	1972
McCarty, Eugene J. (See McGee and McCarty.)						
McCarty, Frank M., Shelbyville, Ind. Dental-engine mallet	515,126	Feb. 20	1884	473	66	1238
McCarty, Harry C., Williamsport, Pa. Sealing-cap for air-brake couplings	529,290	Nov. 13	1372	330	69	915
McCarty, Richard J., Kansas City, Mo. Steam-elevator	528,966	Nov. 13	821	192	69	816
McCarty, William F. M., Hagerstown, Md., assignor to J. W. Fletcher, Boston, Mass. Apparatus for creating a vacuum	522,848	July 10	1155	266	68	234
McCaskey, George E., Mattoon, Ill. Smoke and gas consuming furnace	515,441	Feb. 27	2429	602	66	1354
McCaskey, John L., Waynesborough, Pa., assignor to F. Frick. Electric program-clock	531,002	Dec. 13	1610	382	69	1538
McCaslin, Eugene P., Tullahoma, Tenn. Fire-alarm	530,790	Dec. 11	1259	304	69	1460
McCaughan, Harper. (See McCaughan, William and H.)						
McCaughan, William and H., Gulfport, Miss. Device for protecting riparian lands from overflow	514,767	Feb. 13	1323	330	66	1120
McCauley, Andrew J., Circleville, Ohio. Lock-hinge	516,546	Mar. 13	1342	320	66	1719
McCausland, William L., Dallas, Tex. Dish-cleaner	516,103	Mar. 6	590	138	66	1563
McCausland, William J., Philadelphia, Pa. Spindle for conical cop-tubes	515,301	Feb. 20	2187	542	66	1297
McCawley, Martin, <i>et al.</i> (See Kingsley. Alba T., assignor.)						
McCawley, Martin, and A. T. Kingsley, Millport, assignors of one-third to J. B. Stanchfield, Elmira, N. Y. Door-hanger track-rail, track-rail joint, and track-rail bracket	530,052	Nov. 27	2733	655	69	1197
McCay, George A., Brooklyn, assignor of one-third to F. Leach, New York, N. Y. Lamp	518,531	Apr. 17	1898	470	67	378
McCay, Jasper N. (See McCay, Marion and J. N.)						
McCay, Marion and J. N., Phoenix, Ariz. Ter. Irrigating-pump	527,707	Oct. 16	1691	407	69	342
McCay, William S., and L. V. Moulton, Grand Rapids, Mich.; said Moulton assignor to said McCay. Sectional feed-roll	523,290	July 17	1931	485	68	394
McChesney, Fannie. (See Lewis, Daniel W., assignor.)						
McChesney, Martin H., and J. G. Kunze, assignors to G. P. Bent, Chicago, Ill. Piano	527,533	Oct. 16	1414	344	69	291
McClanathan, Charles P., Oakham, Mass. Combined holder and support for tip-carts	513,132	Jan. 23	2343	565	66	540
McClanathan, Charles P., Oakham, Mass. Tip-cart-operating device	524,787	Aug. 21	1399	341	68	918
McClanathan, Loren B., St. Louis, Mo. Refrigerator	520,695	May 29	3054	740	67	1163
McClaren, William B. (See Foster, Stephen A., assignor.)						
McClary, Frederick C., Hartford, Conn. Reversing tap-holder	531,382	Dec. 25	2307	551	69	1682
McClary, Thomas D., Washington, D. C. Apparatus for making mortar	521,507	June 19	1358	316	67	1476
McClave, Charles R. (See Schell, Absalom, assignor.)						
McClave, William, Scranton, Pa. Grate for boiler or other furnaces	529,291	Nov. 13	1373	330	69	915
McClave, William, Scranton, Pa. Boiler-furnace	529,292	Nov. 13	1377	331	69	915
McCleery, Thomas C., Exeter, Nebr. Quartz-mill	512,208	Jan. 2	793	193	66	150
McCleery, Thomas C., Exeter, Nebr. Ore-concentrator	524,774	July 31	2755	692	68	580
McClellan, Edward J., New York, N. Y. Milling-machine	525,192	Sept. 11	818	186	68	1314
McClellan, Edward J., New York, N. Y. Milling-machine	527,213	Oct. 9	870	211	69	177
McClellan, John A., Walnut Springs, Tex. Condenser and dripper for coffee or tea pots	515,008	Feb. 20	1696	426	66	1205
McClellan, Stephen, San Marcos, Tex. Brace for boring holes, &c.	514,660	Feb. 13	1142	285	66	1086
McClelland, Byron. (See Schneider and Bromley, assignors.)						
McClelland, David H., Washington, D. C. Oil-purifier	530,897	Dec. 11	1424	338	69	1490
McClelland, Robert E., Williamsville, Ill. Powder-divisor	520,728	Oct. 2	96	24	69	20
McClelland, Robert W., assignor of one-half to J. L. Boehme, Valley Centre, Kans. Vehicle spindle-nut	515,089	Feb. 20	1823	460	66	1228
McClerg, Reuben R., Roanoke, Ala. Railway cross-tie	512,387	Jan. 9	1094	265	66	219
McClintock, John J., and P. Marron, Aspen, Colo. Freight-car	521,036	June 5	561	119	67	1287
McClintock, William S., Camden, N. J. Detonating burglar-alarm	516,215	Mar. 13	788	184	66	1616
McCloskey, Charles C., Jr., assignor of one-half to W. S. Armstrong, Cleveland, Ohio. Telephone-directory holder	515,921	Mar. 6	296	70	66	1509
McCloskey, Moses, Corbarrville, Pa. Paddle for propelling small boats	514,489	Feb. 13	857	219	66	1032
McCloskey, William, assignor of one-half to A. J. Green, Essex, Canada. Harvester	517,654	Apr. 3	406	98, 99	67	78
McCloskey, William, assignor of one-half to A. J. Green, Essex, Canada. Harvester	517,655	Apr. 3	408	99	67	78
McCloud, C. S. (See Walker and Moon, assignors.)						
McCloud, Smith N., <i>et al.</i> (See Newhouse, John E., assignor.)						
McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle	519,542	May 8	1103	264	67	760
McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle	519,543	May 8	1105	265	67	761
McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle	519,544	May 8	1107	265	67	761
McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle	519,545	May 8	1108	265	67	761
McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle	519,546	May 8	1110	266	67	761

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McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle..	519,547	May 8	1111	266	67	761
McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle..	520,373	May 22	2511	608	67	1048
McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle..	520,374	May 22	2513	608	67	1049
McClure, Albert E., assignor to McClure Manufacturing Company, Sedalia, Mo. Buckle..	520,375	May 22	2514	609	67	1049
McClure, Harry. (See Meeter and McClure.)						
McClure, John H. (See Lamb and McClure.)						
McClure Manufacturing Company. (See McClure, Albert E., assignor.)						
McClure, William D. (See Meeter and McClure.)						
McCollom, Edwin P., David City, Nebr. Penholder.....	522,482	July 3	525	133	68	104
McCollom, William J., Swaledale, Iowa. Camera-shutter.....	520,696	May 29	3058	740	67	1164
McCollough, John, Crawfordsville, Ind. Straw-stacker.....	529,400	Nov. 20	1584	377	69	974
McCollum, James C., assignor of two-thirds to A. H. Judson and C. W. Seamans, Long Beach, Cal. Nailless horseshoe.....	517,013	Mar. 20	2119	501	66	1880
McCollum, James C., assignor of two-thirds to A. H. Judson, Los Angeles, Cal., and C. K. Judson, Chicago, Ill. Pencil-sharpener.....	527,803	Oct. 23	1855	446	69	390
McCombs, George F., Allegheny, Pa. Door-fastener.....	521,037	June 5	502	120	67	1287
McCombs, George F., Allegheny, assignor to Hand Stitch Broom Sewing Machine Company, Pittsburg, Pa. Broom-corn-sizing machine.....	517,761	Apr. 3	582	143	67	112
McConnell, James H., Chicago, Ill. Feather-dressing machine.....	527,619	Oct. 16	1547	375	69	315
McConnell, John R., et al. (See Bustin, Robert, assignor.)						
McConnell, Thomas G., Collinsville, Ill. Measuring-pump.....	512,587	Jan. 9	1421	343	66	280
McConnell, William H., Nelsonville, and F. A. Ray, Congo, Ohio. Ventilating-fan.....	521,862	June 26	1962	473	67	1604
McConway, William. (See Buhop, Harry C., assignor.)						
McCook, Robert D. (See Earnist, Cyrus C., assignor.)						
McCoole, Gabriel W., St. Louis, Mo. Clothes-pin.....	527,500	Oct. 16	1353	330	69	281
McCordy, Charles A., Fulton, N. Y. Annunciator.....	516,708	Mar. 20	1622	366	66	1766
McCorkindale, Duncan L., Childs, Md. Journal-head for rolls.....	527,708	Oct. 16	1693	408	69	342
McCormack, Daniel J. (See Carstens and McCormack.)						
McCormack, Duncan, Park City, Utah Ter. Valve.....	517,056	Mar. 27	2224	527	66	1915
McCormack, George B. (See Barton and McCormack.)						
McCormick, George T., New York, N. Y. Apparatus for melting snow.....	512,338	Jan. 9	1095	265	66	219
McCormick, George T., New York, N. Y. Apparatus for melting snow.....	514,682	Feb. 13	1182	295	66	1094
McCormick, James H., New Orleans, La. Machine for delinting cotton-seed.....	519,613	May 8	1216	293	67	780
McCormick, John H., New Orleans, La. Vending-machine for stamps and envelopes.....	513,049	Jan. 16	2217	532	66	445
McCormick, John T., San Francisco, Cal. Union of transverse metal bars.....	528,677	Nov. 6	285	69	69	697
McCormick, William H., assignor of one-half to H. A. Kinnie, Kalamazoo, Mich. Combination railway rail and joint.....	517,551	Apr. 3	223	51	67	44
McCoubrey, Thomas, New York, N. Y. Interior telephone system.....	516,506	Mar. 13	1279	304	66	1706
McCoubrey, Thomas, New York, N. Y. Telephone-transmitter.....	527,214	Oct. 9	871	212	69	178
McCoy, Byron O., Suisun City, Cal. Swinging gate.....	513,715	Jan. 30	3326	821	66	759
McCoy, Daniel, et al. (See Billings, George W., assignor.)						
McCoy, Daniel, et al. (See Childs, Charles H., assignor.)						
McCoy, John B. (See Davis, Frank E., assignor.)						
McCoy, Patrick. (See Segade and O'Regan, assignors.)						
McCoy, William A., Beman, Kans. Device for adjustably attaching weed-cutters to cultivator-standards.....	531,054	Dec. 18	1703	404	69	1556
McCoy, William H., Los Angeles, Cal. Elevator.....	520,697	May 29	3059	741	67	1164
McCoy, William H., Miller's Falls, Mass., and H. L. Pratt, Brooklyn, N. Y., assignors to Miller's Falls Company, Miller's Falls, Mass. Spiral screw-driver and drill.....	529,401	Nov. 20	1586	377	69	975
McCracken, Edwin D., Alpine, assignor to Norwich Insulated Wire Company, Harrison, N. J. Electrical conductor.....	524,343	Aug. 14	664	162	68	799
McCracken, James E., near Bellefontaine, Ohio. Screening-machine.....	520,119	May 22	2058	503	67	964
McCrea, Gilbert T., Brush Valley, Pa. Combined car and pipe-coupling.....	512,619	Jan. 9	1469	355	66	289
McCreedy, James T., et al. (See Alberger, Samuel F., assignor.)						
McCreary, C., et al. (See Evans, Morris, assignor.)						
McCreary, John L. and P. C., Lamar, Mo. Hay-loader.....	513,410	Jan. 23	2780	679 680	66	625
McCreary, Parker C. (See McCreary, John L. and P. C.)						
McCredie, Arthur L., Sydney, New South Wales. Overhead switch.....	512,515	Jan. 9	1319	318	66	261
McCreery, Joseph, Detroit, Mich. House ventilation.....	521,038	June 5	503	120	67	1288
McCreery, William A., and J. Taylor, Franklin, Ky. Shoe-cleaner.....	530,707	Dec. 11	1122	273	69	1434
McCrossan, Thomas, Winnipeg, Canada. Washing-machine.....	516,443	Mar. 13	1166	279	66	1686
McCue, Charles T. (See Lippy, David, assignor.)						
McCuistion, Andrew J. (See Roark, Calvin M., assignor.)						
McCulley, Ernest, Houston, Mo. Account-keeping device.....	526,194	Sept. 18	1519	356	68	1451
McCulley, Phillip V., et al. (See Wood, Orlan T., assignor.)						
McCulloch, Alfred H., Boston, Mass., assignor to American Bell Telephone Company, of Massachusetts. Electrical-connection cord.....	522,999	July 17	1421	355	68	299
McCulloch, Charles A., and F. Welliver, Minneapolis, Minn. Draft-regulator for locomotives.....	515,154	Feb. 20	1935	484	66	1249
McCulloch, James, Wolverhampton, England. Stand for supporting rock-drills.....	513,365	Jan. 23	2712	658	66	611
McCulloch, John W. (See Cornell and McCulloch.)						
McCulloch, Robert, et al. (See Surtin, John H., assignor.)						
McCulloch, Elmer J., Milford, Mich. Fence-post.....	520,656	May 29	2970	718	67	1143
McCullough, John L., Brooklyn, N. Y. Breech-loading firearm.....	514,490	Feb. 13	859	219 220	66	1033
McCullough, John L., Brooklyn, N. Y. Electrical firearm.....	514,491	Feb. 13	863	220	66	1033
McCullough, Samuel G., Sidney, Ohio. Folding chair.....	517,656	Apr. 3	413	100	67	79
McCully, William F., et al. (See Smith, Harper F., assignor.)						
McCurdy, John B., Joplin, Mo. Combined surface condenser and feed-water heater.....	518,421	Apr. 17	1709	425	67	345
McDade, James. (See Rerdon, Patrick F., assignor.)						
McDaniel, Alonzo B. (See Buckley, Edmond, assignor.)						
McDaniel, Charles W. (See Badger, Franklin L., assignor.)						
McDaniel, Charles W., Lakeport, N. H., assignor to Economy Feed Water Heater Company, of New Hampshire. Feed-water heater and purifier.....	520,211	May 22	2241	545 546	67	996
McDaniel, John C. (See Davis and McDaniel.)						
McDaniels, George W. (See Kirkpatrick, John A., assignor.)						
McDannell, Otto C., et al. (See English, Carl S., assignor.)						
McDermid, Julian M. (See Thompson, Thomas J., assignor.)						
McDermott, Charles, assignor to Steward & McDermott, New York, N. Y. Pile-driving apparatus.....	529,293	Nov. 13	1380	432	69	916
McDermott, George, assignor of one-half to J. Malley, Philadelphia, Pa. Fastener for milk-cans.....	527,247	Oct. 9	934	226	69	189
McDermott, Henry, Norwich, Conn. Coiler for carding-machines, &c.....	518,675	Apr. 24	2144	536	67	437

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McDermott, John. (See Barnum and McDermott.)						
McDermott, Margaret, executrix. (See Barnum and McDermott.)						
McDermutt, Whitney B., Omaha, Nebr. Tag-holder.....	529,873	Nov. 27	2390	572	69	1132
McDonald, Alexander J., Chicago, assignor of one-fourth to W. H. Fosner, La Grange, Ill. Pneumatic jack.....	512,313	Jan. 9	961	235	66	194
McDonald, Alexis C., Granite, Mont. Amalgamator.....	525,352	Sept. 4	51	14	68	1160
McDonald, Angus. (See Dunning, Elisha, assignor.)						
McDonald, Angus, assignor of two-thirds to H. Leitch, Quincy, Ill. Draft-equalizer.....	529,294	Nov. 13	1381	332	69	916
McDonald, Donald, Louisville, Ky. Gas holder and purifier.....	518,114	Apr. 10	1165	292	67	229
McDonald, Donald, Louisville, Ky. Stove for burning gas.....	525,665	Sept. 4	579	138	68	1258
McDonald, Donald, Louisville, Ky., assignor, by mesne assignments, to National Heat and Power Construction Company, of Pennsylvania. Floor.....	530,959	Dec. 18	1534	363	69	1525
McDonald, Duncan, North River, Cape North, Canada. Anchor.....	511,788	Jan. 2	72	18	66	16
McDonald, James R., Chicago, Ill. Machine for folding circulars.....	513,435	Jan. 23	2811	689 690 691	66	631
McDonald, James R., assignor to National Folding and Enveloping Company, Chicago, Ill. Envelope-machine.....	514,199	Feb. 6	378	90, 91	66	925
McDonald, James S., Jr., Chicago, Ill. Detachable book-cover.....	513,814	Jan. 30	3470	855	66	787
McDonald, James S., Chicago, Ill. Holder for manifold books and carbon-sheets.....	522,227	July 3	89	21	68	18
McDonald, Joseph H., New York, N. Y. Apparatus for purifying water.....	517,552	Apr. 3	324	51	67	44
McDonald, Madge, Washington, D. C. Paper doll.....	515,090	Feb. 20	1824	460	66	1228
McDonald, Marshall, Washington, D. C. Method of and means for separating granular mixtures.....	513,521	Jan. 30	2992	737	66	698
McDonald, Peter. (See Empson and McDonald.)						
McDonald, Samuel J., assignor, by mesne assignments, to S. M. McDonald, Gallatin, Mo. Doubletree for vehicles.....	525,994	Sept. 11	1172	267	68	1377
McDonald, Susan M. (See McDonald, Samuel J., assignor.)						
McDonald, Thomas, Indianapolis, Ind. Oil-burner.....	515,499	Feb. 27	2512	632	66	1369
McDonald, Thomas, Jr., Allegheny, Pa. Nut-lock.....	519,196	May 1	460	112	67	626
McDonel, Daniel A., assignor to Peninsular Broom Company, Detroit, Mich. Manufacturing brooms.....	531,055	Dec. 18	1704	405	69	1556
McDonel, Daniel A., assignor to Peninsular Broom Company, Detroit, Mich. Broom.....	531,056	Dec. 18	1705	405	69	1556
McDonnell, Michael, New Bedford, Mass. Electric alarm-clock.....	528,678	Nov. 6	285	69	69	697
McDonough, James, San Francisco, Cal. Car-coupling.....	530,708	Dec. 11	1123	273	69	1434
McDonough, Joseph F., Providence, R. I. Car-fender.....	524,503	Aug. 14	926	229	68	848
McDonough, Joseph H., and R. S. Williams, Irondale, Ala. Automatic railway-switch.....	513,716	Jan. 30	3328	822	66	760
McDonough, Thomas M. (See Brooks and McDonough.)						
McDougall, John D. (See Diedrick, William H., assignor.)						
McDougall, Alexander, et al. (See Dyer, Frank L., assignor.)						
McDougall, Alexander, Duluth, Minn. Hawser and anchor-chain fair-leader.....	512,209	Jan. 2	796	193	66	151
McDougall, Alexander, Duluth, Minn. Unloading apparatus.....	523,940	July 31	3095	770	68	639
McDougall, Alexander, Duluth, Minn. Apparatus for removing ashes from fire-holds of vessels.....	530,850	Dec. 11	1351	323	69	1476
McDougall, Alexander, Duluth, Minn. Apparatus for removing ashes from fire-holds of vessels.....	530,851	Dec. 11	1353	323	69	1476
McDougall, Alexander, Duluth, Minn., assignor to American Steel Barge Company, New York, N. Y., and West Superior, Wis. Dead-light.....	513,522	Jan. 30	2993	737	66	699
McDougall, Alexander, Duluth, Minn., assignor to American Steel Barge Company, New York, N. Y., and West Superior, Wis. Ship's hatch.....	513,523	Jan. 30	2995	738	66	699
McDougall, Alexander, Duluth, Minn., assignor to American Steel Barge Company, New York, N. Y., and West Superior, Wis. Vessel.....	513,524	Jan. 30	2996	738	66	700
McDougall, Alexander, Duluth, Minn., assignor to American Steel Barge Company, New York, N. Y., and West Superior, Wis. Steam freight and passenger vessel.....	529,295	Nov. 13	1382	332	69	916
McDougall, Angus, assignor to L. E. Lewis, Boston, Mass. Combination screw-driver, anger, and countersink.....	524,906	Aug. 21	1595	390	68	952
McDougall, Hugh, Brooklyn, N. Y. Device for securing eyeglasses.....	529,402	Nov. 20	1587	377	69	975
McDougall, William C., Cheboygan, Mich. Necktie-fastener.....	529,934	Nov. 27	2486	599	69	1149
McDowell, Alexander, Lynn, Mass. Heel-cutting.....	518,043	Apr. 10	1053	267	67	209
McDowell, Robert G., Ishpeming, Mich. Tripod-leg.....	530,443	Dec. 4	631	157	69	1331
McDowell, William L., Lower Merion, Pa. Open fireplace-grate.....	514,269	Feb. 6	506	125	66	948
McEachron, Charles E., et al. (See Corrigh, Moses L., assignor.)						
McElfresh, Francis E., New Cumberland, assignor to Standish Clay Manufacturing Company, New Cumberland and Pittsburgh, Pa. Truck for handling sewer-pipe.....	528,011	Oct. 23	2248	543	69	460
McElfresh, Frank P., Kimballton, Iowa. Boat-propeller.....	518,072	Apr. 10	1094	276	67	216
McElhiney, William A., Baxter Springs, Kans. Measuring-vessel.....	512,837	Jan. 16	1870	442 443 444	66	381
McElrath, James J. B., Centre, Ala. Dating and stamp-canceling machine.....	520,698	May 29	3063	741 742 743	67	1165
McElroy, Daniel S., New York, N. Y. Mechanical doll.....	525,716	Sept. 11	689	159	68	1290
McElroy, James F., Albany, N. Y. Hot-water-circulating apparatus.....	513,050	Jan. 16	2219	532	66	445
McElroy, James F., Lansing, Mich. System of electrical distribution.....	525,769	Sept. 11	777	180	68	1306
McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company, Wheeling, W. Va. Temperature-regulator for fruit-cars.....	514,864	Feb. 13	1475	370 371 372	66	1150
McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company, Wheeling, W. Va. System for warming fruit-cars.....	516,356	Mar. 13	1015	240 241 242	66	1659
McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company, Wheeling, W. Va. Electric switch.....	519,338	May 8	731	179 180	67	693
McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company, Wheeling, W. Va. Steam-pressure gage.....	519,921	May 15	1716	421	67	886
McElroy, James F., Albany, N. Y., assignor to Consolidated Car-Heating Company, Wheeling, W. Va. Heat-regulator.....	520,893	June 5	257	61	67	1244
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company, Wheeling, W. Va. Dynamo-electric machine.....	525,353	Sept. 4	52	15	68	1161
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company, Wheeling, W. Va. Electrical-current director.....	525,354	Sept. 4	53	15	68	1161
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company, Wheeling, W. Va. Steam-turbine dynamo.....	525,390	Sept. 4	121	31	68	1172
McElroy, James F., Lansing, Mich., assignor to Consolidated Car Heating Company, Wheeling, W. Va. Apparatus for heating cars.....	523,588	July 24	2447	613	68	503
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Rotary engine.....	525,793	Sept. 11	819	187	68	1314
McElroy, Stephen D., New York, N. Y. Collar and stiffener therefor.....	513,337	Jan. 23	2668	647	66	603

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McElvain, George H., <i>et al.</i> (See Rawles, John, assignor.)						
McElwain, William H. (See Hammarstrom, Andrew E., assignor.)						
McEnally, Joseph B., Clearfield, Pa. Paper-file	529,296	Nov. 13	1384	333	69	917
McEvoy, Bernard, Toronto, Canada. Disinfecting apparatus	513,411	Jan. 23	2783	680	66	625
McEvoy, Edward J., New York, N. Y. Cut-out block	514,018	Feb. 6	66	16	66	866
McEvoy, Edward J., New York, N. Y. Circuit-controller	524,808	Aug. 21	1435	351	68	955
McEvoy, Edward J., New York, N. Y., assignor of one-half to William Cramp & Son's Ship and Engine Building Company, Philadelphia, Pa. Circuit-controller	514,019	Feb. 6	67	17	66	867
McEvoy, Joseph H., Waterbury, assignor to Ansonia Electric Company, Ansonia, Conn. Annunciator	513,592	Jan. 30	3111	765	66	721
McEvoy, Joseph H., Waterbury, assignor to Ansonia Electric Company, Ansonia, Conn. Electric bell	513,593	Jan. 30	3113	765	66	721
McEwen, James H. (See Begtrup, Julius, assignor.)						
McFadyen, Agnes, Lincoln, Nebr. Heating and ventilating apparatus for buildings	527,804	Oct. 23	1857	446	69	390
McFall, David H. (See Horr and McFall.)						
McFalls, David H., Ellensburg, Wash. Carpet stretcher and tacker	512,659	Jan. 9	1542	370	66	304
McFarland, James M., Colton, Cal. Ore stamp-mill	527,620	Oct. 16	1549	375	69	315
McFarland, John, and G. H. Reid, Cleveland, Ohio. Coin-controlled card-exhibiting machine	519,002	May 1	103	25	67	555
McFarlane, James, Glasgow, Scotland. Toy velocipede	513,815	Jan. 30	3472	855	66	787
McFarlane, James, and W. B. Edgar, Glasgow, Scotland. Incandescent-lamp socket	513,951	Jan. 30	3682	906	66	830
McGahan, Fred L., Indianapolis, Ind. Electric-arc lamp	516,574	Mar. 13	1391	331	66	1728
McGahan, Frederick L., St. Louis, Mo. Smoke catcher and separator	515,528	Feb. 27	2564	635	66	1379
McGahey, Calvert R., Elkton, N. Y. Centrifugal speed-governor	527,443	Oct. 16	1257	309	69	261
McGahey, Calvert R., Elkton, N. Y. Corner-brace	528,679	Nov. 6	286	69	69	698
McGahey, Richard, Walla Walla, Wash. Mower	519,197	May 1	460	113	67	626
McGarry, John A. (See Darby, Henry E., assignor.)						
McGee, Benjamin A., <i>et al.</i> (See Phillips, Thomas E., assignor.)						
McGee, Charlotte A., Jackson, Mich. Corset	512,838	Jan. 16	1871	443	66	381
McGee, Edwin M., Carleton, Nebr. Pump	528,378	Oct. 30	2880	698	69	589
McGee, Joshua H. (See Carman, Isaac L., assignor.)						
McGee, Thomas F., and E. J. McCarty, Clinton, Mass. Clutch-coupling	528,012	Oct. 23	2250	543	69	460
McGee, Van N., and M. W. Mansfield, Indianapolis, Ind. Crossing-frog for railway-tracks	528,766	Nov. 6	468	115	69	731
McGebe, William J., Bushnell, Ill. Portable drilling-machine	520,118	May 22	2056	503	67	964
McGennis, William E., Scranton, Pa. Emery-wheel attachment	523,367	July 24	2065	519	68	435
McGeorge, James, Cleveland, Ohio. Gas-engine	523,857	Sept. 11	949	213	68	1336
McGhee, Charles. (See McGhee, James and C.)						
McGhee, James and C., Sandy Valley, assignors of one-third to D. Fleming, Delancey, Pa. Switch-working mechanism	531,270	Dec. 18	2101	504	69	1626
McGibben, John N. (See Francis, Edward R., assignor.)						
McGiehan, Isaac S., New York, N. Y. Postal scale	518,725	Apr. 24	2244	558	67	454
McGill, Archibald D., Courtland, Miss. Draining device	528,888	Nov. 6	666	160	69	763
McGill, George W., New York, N. Y. Metallic fastener	512,620	Jan. 9	1472	355	66	290
McGill, George W., New York, N. Y. Metallic fastener	512,621	Jan. 9	1473	356	66	290
McGill, George W., New York, N. Y. Metal-capping head	512,622	Jan. 9	1475	356	66	290
McGiltroy, Charles F., assignor of one-half to Robbins & Myers Co., Springfield, Ohio. Molding-table	516,610	Mar. 13	1450	343	66	1738
McGinnis, George R., Cisco, assignor to F. and T. B. Williams, Monticello, Ill. Check-row corn-planter	522,381	July 3	353	90, 91	68	70
McGinnis, John A., Wheeling, W. Va. Bicycle-support	513,243	Jan. 23	2524	608	66	575
McGovern, Bernard, Boston, Mass. Clutch	512,736	Jan. 16	1663	399	66	341
McGowan, George, <i>et al.</i> (See Smith, Harper F., assignor.)						
McGowan, James F. (See Davis and McGowan.)						
McGowan, John H., Cincinnati, Ohio. Water-ejector	519,728	May 15	1413	341	67	829
McGrady, Edward, Stoneham, Mass. Dry gas-meter	524,859	Aug. 21	1526	373	68	970
McGrady, John H. (See Swift, William H., assignor.)						
McGrath, Catherine A., <i>et al.</i> , executors. (See Buehler, Rudolph R., assignor.)						
McGrath, Daniel. (See Hogan and McGrath.)						
McGrath, Louis J., <i>et al.</i> , executors. (See Buehler, Rudolph R., assignor.)						
McGrath, Timothy W., Hartford, Conn., assignor to Educational Toy Company, of Connecticut. Reading-case	523,676	July 31	2609	650	68	549
McGrath, William A., <i>et al.</i> (See Heaton, John S., assignor.)						
McGrath, William J., Cleveland, Ohio. Office furniture	517,122	Mar. 27	2332	549	66	1938
McGraw, William T., Detroit, Mich. Cash register, indicator, and recorder	518,267	Apr. 17	1435	359	67	294
McGraw, William T., Detroit, Mich. Cash register and indicator	519,922	May 15	1718	422	67	887
McGregor, Nelson H., assignor of one-half to C. Wheeler, Milwaukee, Wis. Fish-line reel	520,607	May 29	2896	700	67	1135
McGregor, Nelson H., assignor of one-half to C. Wheeler, Milwaukee, Wis. Fish-line reel	522,079	June 26	2363	569	67	1679
McGregor, Rob Roy, G. W. and W. A. Waddington, Bloomington, Ill. Steam and hot-water boiler	514,376	Feb. 6	673	170 171	66	979
McGrew, Finley B. (See Moore and McGrew.)						
McGriff, John N., Anderson, Ind. Suspender-buckle	530,960	Dec. 18	1535	363	69	1525
McGuire, Elwood W., Richmond, Ind. Adjustable journal-bearing	514,331	Feb. 6	611	155	66	967
McGuire, Elwood W., Richmond, Ind. Lawn-clipper	523,229	July 17	1830	461	68	375
McGuire, Henry, Memphis, Mich. Hopple	518,044	Apr. 10	1055	267	67	209
McGuire, John, St. Paul, Minn. Artificial leg	521,446	June 12	1241	293	67	1438
McGuire, Patrick J., New York, N. Y. Metal pipe connection	514,768	Feb. 13	1324	330	66	1121
McGuire, William A., and M. G. Hubbard, Jr., Chicago, Ill. Railway-truck	531,208	Dec. 18	1989	472 473	69	1607
McHargue, Lee. (See Gilpin and McHargue.)						
McHarry, William A., Eureka Springs, Ark. Barrack	522,120	June 26	2429	583	67	1691
McHenry, David B., Grenada, Miss. Fire-ladder	512,052	Jan. 2	536	126	66	102
McHenry, David B., Grenada, Miss. Suspension-bridge	524,486	Aug. 14	900	222	68	843
McHenry, David B., Grenada, Miss. Panel-chair	527,709	Oct. 16	1694	408	69	342
McHenry, James W., assignor of one-half to W. S. Ritchie, Aspen, Colo. Horse-hitching device	520,608	May 29	2898	700	67	1135
McHugh, John M., Lincolnville, Kans. Vehicle-seat	517,526	Apr. 3	179	40	67	36
McHugh, Bernard, Ottawa, Canada. Device for cutting cards with beveled edges for photograph-mounts	524,726	Aug. 21	1303	319	68	930
McHugh, John F., <i>et al.</i> (See Mullaney, Patrick J., assignor.)						
McHugh, Timothy J. (See Calkins, James H., assignor.)						
McIlhenny, John. (See Curley, Thomas, assignor.)						
McIlhenny, Richard J., Wilmington, N. C. Packing	516,547	Mar. 13	1344	320	66	1719

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McIlveen, James H., Fairfield, Tex. Portable dairy	519,266	May 1	583	142	67	650
McIlvrid, William, assignor to A. A. Griffing Iron Company, Jersey City, N. J. Pipe-hanger	524,603	Aug. 14	1083	267	68	877
McIlvried, James R., Kansas City, Mo. Rocking-chair	516,548	Mar. 13	1345	321	66	1719
McIlvried, James R., Kansas City, Mo. Rocking-chair	516,549	Mar. 13	1345	321	66	1719
McInnis, John D., <i>et al.</i> (See Page, Charles W. and O. P., assignors.)						
McIntosh, John H., Sr., Chelsea, Mich. Combined wood-box, kindling and ash receptacle	515,353	Feb. 27	2283	566	66	1326
McIntosh, William, Winona, Minn. Blow-off cock	529,133	Nov. 13	1093	261	69	865
McIntyre, Byron F., assignor to J. A. Riley, East Orange, N. J. Condensing and preserving milk	523,677	July 31	2611	650	68	550
McIntyre, David A., Newark, N. J. Check or voucher book	523,000	July 17	1422	355	68	300
McIntyre, Frank, Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Pencil-sharpener	518,853	Apr. 24	2446	606	67	400
McIntyre, George P., Chicago, Ill. Mailing-tube	524,860	Aug. 21	1528	373	68	970
McIntyre, James and J. G., Detroit, Mich. Scaffold and scaffold-clamp	529,745	Nov. 27	2174	518	69	1090
McIntyre, John G. (See McIntyre, James and J. G.)						
McIntyre, Royal W., and G. A. H. Sprague, Redlands, Cal. Lubricator	518,823	Apr. 24	2405	595	67	452
McKain, Arthur A., and W. Seburn, Indianapolis, Ind. Pneumatic straw-stacker	518,620	Apr. 24	2043	508	67	419
McKay, Andrew B., London, Canada. Vehicle-tongue	515,407	Feb. 27	2372	588	66	1342
McKay & Copeland Lasting Machine Company. (See Brock, Matthias, assignor.)						
McKay, Daniel J., <i>et al.</i> (See Henderson, David, assignor.)						
McKay, David. (See Barr and McKay.)						
McKay, Frederick S., Hatley, Canada. Clothes-line	515,354	Feb. 27	2284	566	66	1326
McKay, Henry S., Boston, Mass. Electric mechanism for giving reciprocating motion	519,869	May 15	1640	399	67	872
McKay, Henry S., Boston, Mass. Magnetic engine for reciprocating tools	519,870	May 15	1642	399	67	872
McKay, John E., New York, N. Y. Crematory for burning garbage and other refuse	530,623	Dec. 11	977	240	69	1409
McKay, John E., and A. G. Delaney, New York, N. Y. Garbage-crematory	517,288	Mar. 27	2607	611 612	66	1990
McKay, Neil, Paterson, N. J., assignor to C. H. Otis, Brooklyn, N. Y. Centrifugal snow-wheel	529,042	Nov. 13	941	222 223	69	837
McKean, Albert P., Sunbury, Pa. Composition of matter and making same	523,678	July 31	2616		68	550
McKean, William S., Newark, N. J. Editor's or reporter's ready copy-paper tablet	515,605	Feb. 27	2684	667	66	1403
McKee, Arthur G., State College, Pa. Pedal-governor for electric motors	520,072	May 22	1978	485	67	949
McKee, David D., Anderson, Ind. Photographic embossing-press	514,603	Feb. 13	1055	264	66	1069
McKee, David R., trustee. (See Young, Tapley W., assignor.)						
McKee, Harry H., Brooklyn, N. Y. Switch-operating device	523,543	July 24	2376	596	68	490
McKee, Henry B., Brooklyn, N. Y. Tail-board catch for dumping vehicles	523,171	July 17	1732	434	68	357
McKee, Russell W., Clifton, N. J. Car-brake	531,550	Dec. 25	2597	622	69	1738
McKee, Wood. (See Ashley, Frank M., assignor.)						
McKellar, John, San Francisco, Cal. Steam-trap	522,268	July 3	166	44	68	33
McKellar, Peter, Fort William, Canada. Machine for pulverizing rock	526,788	Oct. 2	199	47	69	38
McKelvey, Stewart D., Canton, Ohio. Magneto-telephone	517,764	Apr. 3	587	144	67	113
McKelvey, Stewart D., Canton, Ohio. Apparatus for collecting, concentrating, and distributing sounds	531,554	Dec. 25	2607	624	69	1740
McKelvey, Stewart D., assignor of one-third to J. A. Linville, Canton, Ohio. Telephone	517,762	Apr. 3	583	141	67	113
McKelvey, Stewart D., assignor of one-third to J. A. Linville, Canton, Ohio. Magneto-telephone	517,763	Apr. 3	585	144	67	113
McKelvey, Stewart D., assignor of one-third to J. A. Linville, Canton, Ohio. Phonograph	519,614	May 8	1218	293 294	67	781
McKelvey, Stewart D., assignor of one-third to J. A. Linville, Canton, Ohio. Apparatus for collecting, concentrating, and distributing sounds	526,046	Sept. 18	1259	291	68	1405
McKelvey, William J. (See Raphael, Robert, assignor.)						
McKenna, Edward W., Milwaukee, Wis. Renewing old steel rails	522,228	July 3	91	21	68	18
McKenzie, Andrew, Providence, R. I. Tuning-key for musical instruments	522,013	Oct. 23	2251	543	69	460
McKenzie, Donald, Cleveland, Ohio. Flour-sifter	519,003	May 1	106	26	67	556
McKenzie, Douglas J., and W. Martin, Chicago, Ill. Furnace	524,392	Aug. 14	1751	183	68	816
McKenzie, George A., and A. T. Brock, West Bay City, Mich. Bicycle speed-gearing	512,479	Jan. 9	1265	304	66	251
McKenzie, George A., assignor to J. B. Kanouse, West Bay City, Mich. Stop-hinge	528,258	Oct. 30	2680	646	69	555
McKenzie, George W., Boston, Mass. Weeding implement	520,212	May 22	2242	546	67	996
McKenzie, Peter, Ottawa, Canada. Frame or casing for window sashes or blinds	528,733	Nov. 6	364	69	69	712
McKenzie, William M., New York, N. Y. Fish-trap	530,444	Dec. 4	632	157 158	69	1331
McKerron, John A. (See Clawson and McKerron.)						
McKerron, James M. (See Hay, Francis M., assignor.)						
McKim, David R., Martin's Ferry, Ohio. Packing for pipe-couplings	516,216	Mar. 13	789	184	66	1616
McKim, George W., assignor of one-half to H. Floto, Martin's Ferry, Ohio. Measuring-vessel	514,377	Feb. 6	675	171	66	980
McKim, John L. (See Bennum and McKim.)						
McKinley, Judson, assignor to S. A. McKinley, Liverpool, N. Y. Mercantile check and advertising book	513,436	Jan. 23	2817	692	66	632
McKinley, Sarah A. (See McKinley, Judson, assignor.)						
McKinney, Henry E., Liberty Centre, Iowa. Folding egg-case	529,403	Nov. 20	1588	378	69	975
McKinnon, Duncan T. H. (See Little, Orton C., assignor.)						
McKinnon, Martin, Maxton, N. C. Antirattler for thill-couplings	522,338	Oct. 30	2814	680	69	577
McKinnon, Neil, Newport, R. I. Blind-hinge	530,709	Dec. 11	1124	273	69	1434
McKnight, Thomas R., Aurora, Ill., assignor to Western Wheeled Scraper Company, of Illinois. Road-scraper	518,268	Apr. 17	1438	339	67	295
McKnight, Thomas R., Aurora, Ill., assignor to Western Wheeled Scraper Company, of Illinois. Road-scraper	518,269	Apr. 17	1440	360	67	296
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Wheeled scraper	529,564	Nov. 20	1885	448 449	69	1023
McLachlan, Duncan, Groton, N. Y. Roll-paper cutter	518,422	Apr. 17	1710	426	67	346
McLane, Jared B., North Reading, Mass. Metal-punching machine	524,691	Aug. 14	1232	301	68	904
McLane, Reed, Kissimmee, Fla. Saw attachment	526,255	Sept. 18	1622	381	68	1472
McLaren, Daniel R., Hinckley, Minn. Sleigh	512,259	Jan. 2	870	210	66	164
McLaren, James, <i>et al.</i> (See Stark, James M., assignor.)						
McLaren, John R., Jr., assignor to S. B. McLaren, Burlington, Vt. Extension-ladder	514,020	Feb. 6	69	17	66	867
McLaren, Sarah B. (See McLaren, John R., Jr., assignor.)						
McLauchlin, John C., Port Huron, Mich. Softening fibrous sheets	511,789	Jan. 2	73		66	17

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McLaughen, George W., and W. L. Gallant, assignors of one-third to T. C. Pegram, Gastonia, N. C. Burglar-alarm	518,532	Apr. 17	1900	470	67	379
McLaughlin, Charles I. (See Dodge, Edward W., assignor.)						
McLaughlin, E. J., <i>et al.</i> (See Smith, Orison M., assignor.)						
McLaughlin, Edward H., Parsons, Kans. Engineer's seat	516,314	Mar. 13	941	221	66	1645
McLaughlin, Frank, Oroville, Cal. Elevating device for bottles	522,693	July 10	884	218	68	186
McLaughlin, George M., and C. E. Cooley, Westport, Mo. Wagon-brake	519,729	May 15	1415	341	67	830
McLaughlin, George T. (See Hammond, Robert A., assignor.)						
McLaughlin, James, assignor of one-half to R. G. Franklin, Michigan City, Ind. Automatic gate for elevators	518,374	Apr. 17	1640	405	67	332
McLaughlin, James E., San Francisco, Cal. Refrigerating-machine	519,730	May 15	1417	342	67	830
McLaughlin, James F., Philadelphia, Pa. Push-button	521,808	June 26	1877	449	67	1588
McLaughlin, James F., Philadelphia, Pa. Electric-lamp lighter	521,809	June 26	1879	449	67	1588
McLaughlin, James F., Philadelphia, Pa. Electric soldering-tool	521,914	June 26	2064	496	67	1625
McLaughlin, James F., Philadelphia, Pa. Multiple safety cut-out	527,501	Oct. 16	1354	331	69	231
McLaughlin, James F., Philadelphia, Pa. Closed-conduit electric railway	527,873	Oct. 23	1980	476	69	411
McLaughlin, James F., Philadelphia, Pa. Closed-conduit electric railway	527,874	Oct. 23	1983	477	69	411
McLaughlin, James F., Philadelphia, Pa. Closed-conduit electric railway	523,379	Oct. 30	2281	698	69	590
McLaughlin, James F., assignor to J. W. Diferderfer, Philadelphia, and T. H. Gehly, York, Pa. Electric switch	523,014	Oct. 23	2252	544	69	461
McLaughlin, Mary L., Cincinnati, Ohio. Decorating pottery	526,669	Sept. 25	2349	.....	68	1631
McLauthlin, George T. (See Naylor, James, Jr., assignor.)						
McLauthlin, George T., Boston, Mass. Creamery apparatus	514,021	Feb. 6	71	17, 18	66	867
McLauthlin, George T., and J. Naylor, Jr., Boston, Mass.; said Naylor assignor to said McLauthlin. Automatic fire-extinguisher	515,938	Mar. 6	320	76	66	1513
McLauthlin, George T., Boston, M. W. E. Brunkhorst, Somerville, and M. B. McLauthlin, Malden, Mass.; said Brunkhorst and M. B. McLauthlin assignors to said G. T. McLauthlin. Railway-car elevator	524,344	Aug. 14	665	162 163	68	799
McLauthlin, Martin B. (See McLauthlin, Brunkhorst, and McLauthlin.)						
McLean, Arthur, assignor of one-third to W. G. McLean, Ansonia, Conn. Extension electric chandelier	517,009	Mar. 20	2115	500	66	1879
McLean, H. A. (See Joslin, William H., assignor.)						
McLean, Peter H., Jamestown, N. D. Combined thill-support and antrattler	527,710	Oct. 16	1695	408	69	343
McLean, William G. (See McLean, Arthur, assignor.)						
McLean, William S., Saginaw, Mich. Apparatus for heating air for inhalers	514,022	Feb. 6	72	18	66	867
McLean, William S., Saginaw, Mich. Apparatus for heating and medicating compressed air	514,956	Feb. 20	1022	407	66	1192
McLellan, John T., Bozeman, Mont. Automatic exhaust-nozzle	528,549	Nov. 6	44	12	69	654
McLellan, William C. (See Hackworth and McLellan.)						
McLenathan, Harvey H., Irving, Mass. Extension-shelf	523,675	July 31	2617	651	68	550
McLeod, Donald N., South Lancaster, Mass. Fire-escape	519,618	May 8	1227	295	67	782
McLeod, James R., Calgary, Canada. Bridle	518,423	Apr. 17	1711	426	67	346
McLeod, Joseph N., Brooklyn, N. Y. Magneto-electric machine	530,235	Dec. 4	285	70	69	1267
McLeod, Rod. (See Kendr, William F., assignor.)						
McLewee, Anna M. (See Milliken, John A., assignor.)						
McLoughlin Brothers. (See Smith, Eleanor M., assignor.)						
McLoughlin, John. (See Fearn, William R., assignor.)						
McLoughlin, John, Boston, Mass. Heater	522,850	July 10	1157	287	68	234
McMahon, Constantine, and A. M. Southard, Denver, Colo. Conveyor	513,952	Jan. 30	3683	906	66	830
McMahon, John J., Toledo, Ohio. Means for grading streets or road-beds	524,028	Aug. 7	100	21	68	680
McMahon, Michael F., and T. F. Carver, Worcester, Mass.; said Carver assignor to said McMahon. Clutch	520,447	May 29	2624	635	67	1085
McMahon, Patrick J., Tangipahoa, La., assignor to Standard Fireless Company, Chicago, Ill. Apparatus for making anhydrous ammonia	525,858	Sept. 11	952	214	68	1337
McMahon, Patrick J., Tangipahoa, La., assignor to Standard Fireless Company, Chicago, Ill. Ammoniacal gas-motor	525,859	Sept. 11	957	214 215	68	1337
McMahon, William, Rahway, N. J. Dumping-boat	525,794	Sept. 11	820	187	68	1314
McMahon, William, Rahway, N. J. Dumping-car	530,198	Dec. 4	213	53	69	1254
McMahon, William, Rahway, N. J. Dumping-car	530,199	Dec. 4	215	54	69	1254
McManis, Charles R., Keokuk, Iowa. Safety railway-car	518,854	Apr. 24	2447	606	67	490
McManus, John J., San Francisco, Cal. Gate for rules	515,550	Feb. 27	2601	644	66	1386
McManus, William V., Baltimore, Md. Car-fender	518,115	Apr. 10	1166	293	67	229
McMaster, Alonzo D., <i>et al.</i> (See Pack, John F., assignor.)						
McMaster, Joseph M., Rochester, N. Y. Wheel	521,570	June 19	1465	343	67	1494
McMaster, William B., Leavenworth, Kans. Nut-lock washer	523,001	July 17	1423	355	68	300
McMasters, David C. (See Wallace, William, assignor.)						
McMasters, William P., Munhall, Pa. Miner's lamp	519,616	May 8	1229	295	67	782
McMillan, George W., Hurlston, Cal. Hook	516,897	Mar. 20	1929	455	66	1844
McMillan, Hugh. (See Wilkes, Gilbert, assignor.)						
McMillan, James, Chicago, Ill. Steam-boiler furnace	519,267	May 1	584	142 143 120 122	67	651
McMillan, John L., Ilion, N. Y. Method of and machine for justifying type	521,039	June 5	505	121 122	67	1288
McMillin, Harry, Allegheny, Pa. Furnace-pipe	525,467	Sept. 4	256	62	68	1198
McMonagle, Timothy, Port Haron, Mich. Milking-stool	512,260	Jan. 2	871	210	66	164
McMullan, Archibald, Tullydoey, Ireland. Rotary churn	524,071	Aug. 7	171	39	68	693
McMullan, Jesse P., Decatur, Miss. Automatic car-coupling	512,389	Jan. 9	1097	265	66	219
McMullen, Hugh A. (See Turner and McMullen.)						
McMullen, Peter, assignor of one-half to M. Callahan, Buffalo, N. Y. Car-brake	528,302	Oct. 30	2755	665 666	69	567
McMurray, F. J. (See Campbell, George W., assignor.)						
McMurrin, Joseph, Shoshone, Idaho. Spark-arrester	525,229	Aug. 28	2182	533	68	1103
McMurrin, Joseph, Shoshone, Idaho. Hand-car	525,919	Sept. 11	1049	238	68	1354
McMurrin, Joseph, Shoshone, Idaho. Water-elevator	528,015	Oct. 23	2255	549	69	461
McMurrin, Joseph, Shoshone, Idaho. Track-jack	529,935	Nov. 27	2487	600	69	1149
McMurtry, George G., Allegheny, Pa., assignor to Apollo Iron and Steel Company, Pittsburg, Pa. Galvanizing apparatus	530,491	Dec. 4	737	180	69	1349
McMurtry, George G., Allegheny, and L. G. Stitt, Kiskiminetas, assignors to Apollo Iron and Steel Company, Pittsburg, Pa. Rolling-mill	526,195	Sept. 18	1521	356	68	1452
McMyler Manufacturing Company. (See Hulett, George H., assignor.)						
McNab, Robert, Paterson, N. J. Adjustable safety clothes-line support	515,355	Feb. 27	2286	566 567	66	1327
McNab, Robert, Paterson, N. J. Shutter-fastener	526,729	Oct. 2	97	24	69	21

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McNabb, James C., Montreal, Canada. Stop-cock for air-brake systems	523,081	July 17	1545	387	68	324
McNalley, Micheal, St. Louis, Mo. Ecraseur	529,936	Nov. 27	2489	600	69	1149
McNally, Frank C., Kansas City, Mo. Smoke-consuming locomotive	531,555	Dec. 25	2609	624	69	1740
McNamara, Daniel L., Kansas City, Mo. Automatic railway-crossing	512,390	Jan. 9	1097	266	66	219
McNamara, James, Seattle, Wash. Centering for tunnels	521,767	June 19	1813	430	67	1558
McNamire, Millard F., Bolivar, N. Y. Potato-digger	526,868	Oct. 2	332	81	69	63
McNaughton, Eliza E., Phoenix, N. Y. Bubble-game apparatus	510,770	May 15	1476	358	67	841
McNaughton, Eliza E., Phoenix, N. Y. Composition for blowing soap-bubbles	519,923	May 15	1721		67	887
McNaughton, Eliza E., Phoenix, N. Y. Game-table for soap-bubbles	529,043	Nov. 13	944	223	69	838
McNaughton, James, Waukesha, Wis. Water-service system for railway-trains	525,025	Aug. 28	1826	445	68	1041
McNaughton, James, Waukesha, Wis., assignor to J. S. Leslie, Paterson, N. J. Locomotive fire-kindling apparatus	515,009	Feb. 20	1697	427	66	1206
McNeil, Catharine, San Francisco, Cal. Necktie-fastener	519,477	May 8	975	236	67	736
McNeil, Murdock, Linden, and R. Kohlhepp, assignors of one-third to M. L. Cate, Boston, Mass. Safety-valve	525,963	Sept. 11	1126	256	68	1369
McNeil, Peter C., et al. (See Johnson, George P., assignor.)						
McNeill, Orlo W., Ackworth, Iowa. Folding egg-crate	524,727	Aug. 21	1305	319	68	930
McNeill-Tinder Electric Company. (See McNeill and Tinder, assignors.)						
McNeill, William, Chicago, Ill., and J. H. Tinder, assignors to McNeill-Tinder Electric Company, Winchester, Ky. Registering mechanism for electric-light circuits	526,579	Sept. 25	2182	521	68	1590
McNulta, Herbert, Bloomington, Ill. Rheostat	516,217	Mar. 13	790	184	66	1616
McNulty, Michael, Norton, Va. Car-brake	523,775	July 31	2787	692	68	581
McNutt, John C., et al. (See Dobbins, Douglas, assignor.)						
McNutt, John F. (See Winfield and McNutt.)						
McPhail, Hugh, assignor of two-thirds to E. and C. H. Simpson, Wakefield, England. Apparatus for generating steam	516,060	Mar. 6	534	124	66	1552
McPhail, Minnie, and F. Kopicke, Taunton, Minn. Car-coupling	526,632	Sept. 25	2266	543	68	1607
McPhee, Colin C., and I. E. Brock, Chatham, Canada. Chair-cot	523,903	July 31	3011	749	68	623
McPherson, Daniel, Caledonia, N. Y. Grain-binder	521,508	June 19	1361	317	67	1477
McPherson, Henry, assignor of one-fourth to C. V. Collins, Troy, N. Y. Sand-box for cars	512,480	Jan. 9	1267	305	66	251
McPherson, Horace, Crete, Ill. Corn cutting and shocking machine	512,314	Jan. 9	964	{ 235 } 236	66	195
McPherson, Horace, Crete, Ill. Corn-shack loader	528,734	Nov. 6	365	89	69	713
McPherson, William, New York, N. Y. Dovetailing-machine	518,824	Apr. 24	2405	{ 59 } 596	67	482
McRae, Alexander K., assignor to F. N. O. McRae, Chicago, Ill. Freight-barge	527,215	Oct. 9	872	{ 212 } 213	69	178
McRae, Austin L. (See Gilstrap, James W. and W. D., assignors.)						
McRae, Florence N. O. (See McRae, Alexander K., assignor.)						
McTammany, John, Spencer, Mass. Voting-machine	520,609	May 29	2899	700	67	1135
McTear, George, Belfast, Ireland. Vegetable-fiber roofing	523,544	July 24	2378	597	68	490
McTighe, Thomas J., and S. W. Childs, New York, N. Y. Trolley-wire hanger	520,213	May 22	2243	546	67	996
McTighe, Thomas J., assignor by mesne assignments, to F. K. Fitch, New York, N. Y. Trolley-wire hanger	522,180	June 26	2536	609	67	1712
McTighe, Thomas J., assignor, by mesne assignments, to F. K. Fitch, New York, N. Y. Electric-railway pole-ratchet	524,282	Aug. 7	524	123	68	756
McTighe, Thomas J., and S. W. Childs, assignors, by mesne assignments, to F. K. Fitch, New York, N. Y. Trolley-wire circuit-breaker	524,283	Aug. 7	525	123	68	756
McTurner, John, W. J. Boren, and S. H. Turner, Hannibal, Mo. Apparatus for loading wagons with gravel, sand, &c.	512,988	Jan. 16	2128	505	66	428
McWhorter, Eli T., Forest, Miss. Stoker for engine-furnaces	530,117	Dec. 4	72	20	69	1228
McWilliams, Robert, West Newton, Pa. Dust-collector	527,341	Oct. 9	1087	263	69	216
Meach, Joseph R. (See Fairbank and Meach.)						
Meacham, Daniel W., McAdenville, N. C. Auger-handle	512,384	Jan. 9	1089	264	66	218
Meachem, Oliver G. (See Miller, Oran C., assignor.)						
Mead, Charles R., Oneida, N. Y. Animal-trap	529,129	Nov. 13	1087	262	69	864
Mead, Frank S., Montreal, Canada. Gas-engine	528,006	Oct. 23	2241	541	69	458
Mead, George L., et al. (See Norwood, George, assignor.)						
Mead, George W., Tecumseh, Mich. Grain scouring or polishing machine	522,996	July 17	1414	{ 354 } 354	68	298
Mead, Martin T., and S. M. Clemens, assignors of one-third to J. L. Boone, San Francisco, Cal. Skating-rink	517,823	Apr. 3	674		67	131
Mead, Theodore H., et al. (See Crowell, Luther C., assignor.)						
Mead, Theodore H., et al. (See Roosen, Oscar, assignor.)						
Mead, Willie S. (See Summer, Lewis P., assignor.)						
Meadows, Charles A., Yonkers, N. Y. Puzzle	511,904	Jan. 2	303	70	66	58
Meady, Albert C., Somerville, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Pressure-gage for use on heavy ordnance	523,404	July 24	2129	{ 534 } 535	68	446
Meahl, Jacob, Cleveland, Ohio. Double-acting ratchet-drill	514,127	Feb. 6	235	54, 55	66	898
Means, David L., Arkansas City, Kans. Manufacturing roofing-paints	527,068	Oct. 9	643		69	135
Meany, James A., Camden, and C. H. Schnitzler, Orston, N. J. Hame	530,785	Dec. 11	1254	303	69	1459
Measures, Thomas, et al. (See Fairbank and Meach, assignors.)						
Measures, William H., Stoneham, Mass. Toe-weight	530,545	Dec. 11	846	208	69	1386
Meats, John T., assignor to Mason Machine Works, Taunton, Mass. Carding-machine	528,007	Oct. 23	2244	542	69	459
Mechanical Amusement Company. (See Wilson, Stephen, assignor.)						
Mechanical Rubber Company. (See Ives, John F., assignor.)						
Meck, Elias, Freeport, Canada. Milk-cooling house	527,700	Oct. 16	1685	405	69	341
Medart, Philip, assignor of one-half to W. Medart, St. Louis, Mo. Apparatus for turning and polishing shafting	516,543	Mar. 13	1338	319	66	1718
Medart, William. (See Medart, Philip, assignor.)						
Medberry, Chauncey J. (See Garney and Medberry.)						
Medrick, Henry D., assignor of one-half to J. K. Medrick, Port Jervis, N. Y. Toy pistol	527,701	Oct. 16	1686	406	69	341
Medrick, John K. (See Medrick, Henry D., assignor.)						
Medrick, John K., Port Jervis, N. Y. Toy pistol	513,193	Jan. 23	2435	589	66	557
Meehan, James, Covington, Ky. Vestibule-car	512,513	Jan. 9	1317	313	66	260
Meeker, Marion J., Puyallup, Wash. Package	526,249	Sept. 18	1610	{ 377 } 378	68	1470
Meeker, Walter C., Jersey City, N. J., assignor to Lewis & Fowler Girder Rail Company, Brooklyn, N. Y. Railway-frog	511,784	Jan. 2	64	16	66	15
Meekins, William H., Baltimore, Md. Cradle	517,266	Mar. 27	2602	610	66	1989
Meeter, Lewis M., H. and W. D. McClure, Hawarden, Iowa. Plow-shovel	516,544	Mar. 13	1340	320	66	1718
Meggenhofen, Charles W., Franklin, and A. S. Courtright, Indianapolis, Ind. Boring-machine	518,262	Apr. 17	1426	356	67	293
Mehren, Jacob F., Chicago, Ill. Means for testing electric signal-boxes	523,798	July 31	2831	703	68	589

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Mehring, Jacob F., assignor to J. P. Barrett, Chicago, Ill. Electrical-instrument table.....	518,788	Apr. 24	2344	581	67	472
Mehring, George. (See Prentice and Mehring.)						
Mehrtens, Fred L. N. (See Youngquist, Mehrtens, and Youngquist.)						
Meier, Caspar, San Francisco, Cal. Dredging implement.....	528,375	Oct. 30	2875	697	69	589
Meier, Edward D., St. Louis, Mo. Steam-boiler furnace and boiler.....	529,741	Nov. 27	2168	517	69	1089
Meier, Emil, New York, N. Y. Brake attachment for ink-rollers.....	529,932	Nov. 27	2484	599	69	1148
Meier, Joseph, Rock Island, Ill. Attachment to cultivators.....	519,408	May 8	860	208	67	717
Meikle, James, Jr., Glasgow, Scotland, assignor to Ruchill Chemical Company, Limited, London, England. Apparatus for extracting oil.....	525,662	Sept. 4	576	138	68	1257
Meir, Joseph, Burslem, England. Apparatus for molding articles of earthenware.....	514,373	Feb. 6	670	169	66	979
Meisel, Francis, Boston, Mass. Mechanical movement.....	514,723	Feb. 13	1256	313	66	1107
Meisel, Francis, Boston, Mass. Machine for cutting, folding, and piling cloth, paper, or other fabrics.....	517,653	Apr. 3	400	96 97 98	67	77
Meisel, Francis, Boston, and H. L. Chapin, Chelsea, Mass., assignors to said Meisel. Web-perfecting platen printing-machine.....	514,563	Feb. 13	977	247 248	66	1055
Meissner, Julius H., Pittsburg, Pa. Furnace-grate.....	529,286	Nov. 13	1363	327	69	913
Meissner, William O., Chicago, Ill. Electro-mechanical device for bells, &c.....	513,587	Jan. 30	3105	763	66	720
Meissner, William O., assignor to Washington Electric Company, Chicago, Ill. Arc lamp.....	515,125	Feb. 20	1881	473	66	1238
Mela, Ferdinand H., New York, N. Y. Fireproof partition.....	515,496	Feb. 27	2509	621	66	1362
Melançon, Egesippe D., Donaldsonville, La. Trace-carrier.....	524,722	Aug. 21	1297	317	68	929
Melius, Reuben J., Bath-on-the-Hudson, N. Y. Elevator.....	515,781	Mar. 6	90	21	66	1471
Mellen, John, Newport, Ky., and N. O. Goldsmith, assignors to F. C. Weir, Cincinnati, Ohio. Reversing mechanism for electric motors.....	528,440	Oct. 30	2987	722	69	608
Mellin, Carl J., Richmond, Va. Steam-separator.....	520,604	May 29	2892	699	67	1134
Mellin, Carl J., assignor to Richmond Locomotive and Machine Works, Richmond, Va. Compound locomotive.....	519,407	May 8	858	208	67	716
Melling, Jacob, Baltimore, Md. Composition for removing hair from the skin.....	520,005	May 15	1859	67	67	912
Mellor of Mark, Benjamin, Ellicott City, Md. Pump-motor.....	530,848	Dec. 11	1345	322	69	1475
Meloche, Clovis. (See Meloche, Felix, Jr., and C.)						
Meloche, Felix, Jr., and C., Montreal, Canada. Combination-lock.....	516,685	Mar. 20	1585	378	66	1781
Mélotte, Jules, Rémicourt, Belgium, assignor of one-half to J. W. Renther, Hennef-on-the-Sieg, Germany. Centrifugal creamer.....	512,203	Jan. 2	786	191	66	149
Mélotte, Jules, Rémicourt, Belgium, and W. Renther, Hennef-on-Sieg, Germany. Centrifugal creamer.....	521,722	June 19	1721	407	67	1543
Melson, Rufus G., Punxsatowney, Pa. Bed-spring and slat holder.....	514,765	Feb. 13	1320	329	66	1120
Melville, James J., Northwich, England. Apparatus for treating substances with gases.....	520,369	May 22	2505	606	67	1047
Melville, Martha A., et al. (See Nichols, Edwin C., assignor.)						
Melville, W. G., et al. (See Nichols, Edwin C., assignor.)						
Melvin, David N., Linoleumville, N. Y. Apparatus for cutting linoleum.....	511,785	Jan. 2	65	16	66	15
Melvin, David N., Linoleumville, N. Y. Apparatus for pressing linoleum.....	513,241	Jan. 23	2518	607	66	574
Melzer, Manuel S., Philadelphia, Pa. Display-rack with adjustable arm.....	516,869	Mar. 20	1881	445	66	1836
Memminger, C. Gustavus, et al. (See Guild, George, assignor.)						
Mende, Alex. P. (See Remmers, Bernhard, assignor.)						
Mendenhall, Frank and T. F., Moorepark, Mich. Vehicle-wheel.....	528,376	Oct. 30	2876	697	69	589
Mendenhall, James. (See Schmitz and Mendenhall.)						
Mendenhall, Thomas F. (See Mendenhall, Frank and T. F.)						
Mendenhall, Walter S., Covington, Ky., assignor to Samuel C. Tatum Company, Cincinnati, Ohio. Pen-rack.....	517,757	Apr. 3	577	142	67	112
Mendenhall, Walter S., Covington, Ky., assignor to Saml. C. Tatum Company, Cincinnati, Ohio. Damping apparatus for press-copying.....	523,642	July 24	2537	637	68	520
Mendés, Henri, Paris, France. Apparatus for cooling liquids.....	518,618	Apr. 24	2040	507 508	67	419
Mendham, William, assignor to Seybold Machine Company, Dayton, Ohio. Folding-machine.....	517,054	Mar. 27	2320	526	66	1915
Mengel, Joseph A., McKeesburg, Pa. Washing-machine.....	521,506	June 19	1357	315	67	1476
Mengeringhausen, William H. von, York, Pa. Speed-governor.....	514,602	Feb. 13	1053	263 264	66	1069
Menier, Henri, Paris, France. Means for attaching india-rubber, &c., to soles of boots or shoes.....	522,477	July 3	518	131	68	103
Mente, Albert, New York, N. Y. Bouquet-holder.....	520,650	May 29	2960	716	67	1146
Menzenbauer, Fred, Jersey City, N. J. Guitar-zither.....	520,651	May 29	2961	716 717	67	1147
Mercader, Camille, Braddock, Pa. Machine for making axles.....	524,092	Aug. 7	209	48	68	699
Merchant, A. H. (See Williams, Webb W. M., assignor.)						
Merchant, Clarke, et al. (See Montross, Levi H., assignor.)						
Merchant, Frank D. (See Lencke and Merchant.)						
Merchant, Henry W., et al. (See Montross, Levi H., assignor.)						
Merchant, Silas, Cleveland, Ohio. Foundry plant.....	516,397	Mar. 13	1089	259	66	1671
Merchant, William T. (See Shute, James L., assignor.)						
Meredith, Edmund A. J., assignor to Perfect Button Stick Company, Limited, Toronto, Canada. Holding device for cleaning uniform-buttons.....	514,863	Feb. 13	1474	370	66	1150
Meredith, Wynn, Aurora, Ill. Rheostat.....	513,126	Jan. 23	2333	562	66	538
Mergenthaler Linotype Company. (See Dodge, Philip T., assignor.)						
Mergenthaler Linotype Company. (See Mergenthaler, Ottmar, assignor.)						
Mergenthaler Linotype Company. (See Sigurdsson, Oddur V., assignor.)						
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine.....	522,073	June 26	2353	565 566	67	1677
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, of New Jersey. Linotype-machine.....	527,702	Oct. 16	1688	406	69	341
Mergenthaler, Ottmar, Baltimore, Md., assignor to Mergenthaler Linotype Company, New York, N. Y. Composing mechanism for linotype-machines.....	531,266	Dec. 18	2091	501 502	69	1625
Mergott, Julius E., and C. Hering, Newark, N. J. Purse or bag frame.....	515,918	Mar. 6	291	69	66	1507
Meriden Silver Plate Company. (See Hiller, Louis C., assignor.)						
Meriden Silver Plate Company. (See Hiller and Mackay, assignors.)						
Meriwether, Charles N., Clarksville, Tenn. Nut-lock.....	529,742	Nov. 27	2171	517	69	1090
Merker, Robert J., Cleveland, Ohio. Coin-controlled electric machine.....	518,463	Apr. 17	1788	443 444	67	359
Merle, Adrian, et al. (See Rodin, Charles F., assignor.)						
Merley, Nicholas, Canton, Ohio. Brick-kiln.....	527,703	Oct. 16	1689	406	69	341
Merrell, Daniel B., Canandaigua, N. Y. Manure-spreader.....	531,206	Dec. 18	1985	471 472	69	1666
Merriam, Lyman W., Fitchburg, assignor of one-half to M. F. Prue, Shirley, Mass. Window-screen.....	516,608	Mar. 13	1446	343	66	1737
Merrick, George H., San Francisco, Cal. Bung and bushing.....	520,372	May 22	2509	608	67	1048

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Merrick, George H., San Francisco, assignor to W. F. Pierce, Oakland, Cal. Bushing and faucet for barrels	520,239	May 22	2286	555	67	1004
Merrick, George H., San Francisco, assignor to W. F. Pierce, Oakland, Cal. Bushing for barrels	520,240	May 22	2289	556	67	1004
Merridith, Samuel H., West Liberty, Iowa. Harrow	524,260	Aug. 7	490	{ 113 114 }	68	750
Merrifield, Leonard L., Franklin, Mass., assignor to Economical Gas Apparatus Construction Company, Limited, Toronto, Canada. Apparatus for spraying oil or other liquids ..	514,952	Feb. 20	1615	405	66	1191
Merrill, Albinus J., <i>et al.</i> (See Farrell, George W., assignor.) ..						
Merrill, Charles W. (See Janin and Merrill.) ..						
Merrill, Edward W., Brooklyn, N. Y. Drop-hammer	515,919	Mar. 6	293	69	66	1508
Merrill, Frank E. (See Fosgate, Daniel O., assignor.) ..						
Merrill, Frank W., Deering, Me. Cream-cooler and soda-fountain	513,127	Jan. 23	2334	562	66	538
Merrill, Frederick B., Chicago, Ill. Rotary engine	511,964	Jan. 2	398	93	66	76
Merrill, Frederick P., Hornellsville, N. Y. Glove	527,704	Oct. 16	1690	407	69	342
Merrill, I. S., <i>et al.</i> (See Edwards, Hubert F., assignor.) ..						
Merrill, J. G., <i>et al.</i> (See Edwards, Hubert F., assignor.) ..						
Merrill, Marcellus H., assignor of one-third to A. W. Gillett, New Lebanon, N. Y. Car-coupling	514,483	Feb. 13	847	216	66	1031
Merrill, Robert T. (See Franz and Merrill.) ..						
Merrill, Thomas L., Oakland, Cal. Car-ventilator	516,058	Mar. 6	531	123	66	1551
Merrill, William, assignor of one-half to S. S. Mitts, Saginaw, Mich. Wood-cutting machine.	526,043	Sept. 18	1254	290	68	1405
Merrill, William, assignor of one-half to S. S. Mitts, Saginaw, Mich. Wood-cutting machine.	526,044	Sept. 18	1256	291	68	1405
Merrill, William, assignor of one-half to S. S. Mitts, Saginaw, Mich. Wood-cutting machine.	526,354	Sept. 18	1789	424	68	1505
Merriman, Amasa H., Charles City, Iowa. Attachment for type-writing machines ..	525,916	Sept. 11	1644	237	68	1353
Merritt, Arthur A., assignor of one-half to Laughlin Brothers, Cohoes, N. Y. Electric stop-motion for knitting-machines	515,965	Mar. 6	367	87	66	1521
Merritt, Charles A., Birmingham, Ala. Wave-motor	526,082	Sept. 18	1322	306	68	1416
Merritt, Charles H. (See Cooper, Fredrick W., assignor.) ..						
Merritt, Francis A., Osawatomie, Kans. Corn-shucker	513,588	Jan. 30	3106	764	66	720
Merritt, Frank W., and A. R. Roe, assignors to Electric Motor Company, Duluth, Minn. Electric pump	524,044	Aug. 7	123	27	68	685
Merritt, George R. (See Liebe and Merritt.) ..						
Merritt, James M. (See Goodrich and Merritt.) ..						
Merritt, James M., assignor of one-half to D. W. Knickerbocker, Homer, Mich. Oil-burner.	520,997	June 5	441	105	67	1276
Merritt, Thomas A. (See Irvin, John B., assignor.) ..						
Merritt, William B., Braintree, assignor of one-half to E. O. Ely, Boston, Mass. Button-setting apparatus	517,758	Apr. 3	578	142	67	112
Merritt, William H. (See Chapman, George T., assignor.) ..						
Merritt, William H., Minden, Mich. Fence-wire carrier and stretcher	518,672	Apr. 24	2141	535	67	437
Morrow, Frank J., Amboy, Ill. Washing-machine	523,479	July 24	2271	571	68	469
Mersereau, Jacob, Orange, N. J., assignor to C. L. Husted, Brooklyn, N. Y. Siphon-bottle	523,727	July 31	2706	670	68	565
Mersereau, William T., South Orange, N. J. Support for canopy-rods in metallic cribs or bedsteads	530,953	Dec. 18	1523	361	69	1523
Mershon, Edward C., Saginaw, Mich. Combined band rip-saw and resaw	526,160	Sept. 18	1453	340	68	1441
Mershon, Ralph D., Pittsburg, Pa. Audible synchronism-indicator	529,398	Nov. 20	1581	376	69	974
Mershon, Ralph D., Pittsburg, Pa. Audible synchronism-indicator	529,399	Nov. 20	1583	377	69	974
Mershon, William R., assignor of one-half to S. Smith, Newark, N. J. Drawbridge-joint and operating mechanism	530,234	Dec. 4	280	69.70	69	1266
Mertens, Louis, Erie, Pa. Lubricator	515,404	Feb. 27	2367	547	66	1342
Meschter, Jacob K., Philadelphia, Pa. Regulator for hot-water heaters	526,404	Sept. 25	1913	455	68	1540
Meserole, Abraham V., New York, N. Y. Electric motor	525,108	Aug. 28	1981	{ 484 485 }	68	1067
Meslein, Peter J., Chicago, Ill. Clothes-drier	527,770	Oct. 23	1976	475	69	410
Mess, Schleicher, Schumm & Co. (See Winand, Paul A. N., assignor.) ..						
Messick, Charles, Nickerson, Kans. Combined steam cooker and baker	513,405	Jan. 23	2774	678	66	623
Messing, Henry. (See Birner and Messing.) ..						
Messinger, William T., Boston, Mass. Fluid-discharging apparatus	517,550	Apr. 3	219	51	67	43
Meston, Alexander W., St. Louis, Mo., assignor to Emerson Electric Manufacturing Company, of Missouri. Fan-guard	515,405	Feb. 27	2369	588	66	1342
Meston, Alexander W., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Electric motor	526,083	Sept. 18	1323	{ 306 307 308 }	68	1417
Meston, Alexander W., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Alternating-current transformer	530,597	Dec. 11	935	{ 220 229 230 }	69	1402
Metal, Max H., New York, N. Y. Coin-registering purse	525,910	Nov. 6	722	170	69	778
Metcalf, Alexander R., <i>et al.</i> (See Conrad, William H., assignor.) ..						
Metcalf, Benjamin F., assignor to E. S. Albright, St. Louis, Mo. Tool for frying batter ..	522,797	July 10	1084	267	68	221
Metcalf, Clayton A. (See Sellon, Charles A., assignor.) ..						
Metcalf, John A., assignor of one-half to H. A. Perry, Chicago, Ill. Street letter-box ..	527,614	Oct. 16	1540	374	69	314
Metcalf, Manrice A. (See Flavell, Denis A., assignor.) ..						
Meteor Despatch Company. (See Ames, Oakea, assignor.) ..						
Motor Despatch Company. (See Pearsall, Albert W., assignor.) ..						
Methke, Emil, and H. Schwalbe, Philadelphia, Pa. Rocking-chair fan	513,809	Jan. 30	3464	853	66	786
Metric Metal Company. (See Wallace, Jacob B., assignor.) ..						
Mette, Charles A., Santa Cruz, Cal. Swage	519,817	May 15	1554	381	67	856
Mettler, Anna M. (See Mettler, Casper W., assignor.) ..						
Mettler, Casper W., assignor to A. M. Mettler, Boonton, N. J. Screw-cutting machine ..	513,334	Jan. 23	2658	{ 645 646 }	66	602
Metz, Charles H., Highlandville, assignor to Union Cycle Manufacturing Company, Boston, Mass. Bicycle	513,589	Jan. 30	3108	764	66	720
Metzger, Amanda, Schenectady, N. Y., assignor to General Electric Company, of New York. Electric snap-switch	526,725	Oct. 2	92	23	69	19
Metzger, David, New York, N. Y. Brooch-pin	529,743	Nov. 27	2172	518	69	1090
Metzger, Jules P., assignor to Leslie Brothers Manufacturing Company, Paterson, N. J. Journal-bearing for axles	514,484	Feb. 13	849	{ 216 217 }	66	1031
Metzger, Jules P., assignor to Leslie Brothers Manufacturing Company, Paterson, N. J. Journal-bearing for railway-axles	514,485	Feb. 13	851	217	66	1031
Metzger, Martin L., New York, N. Y. Teething-ring	526,932	Oct. 2	444	109	69	83
Metzger, William H. (See Effinger and Metzger.) ..						
Meurer, Eugen, Palmer, N. Y. Digester	514,374	Feb. 6	671	170	66	979
Meurer, Eugene, Palmer Falls, N. Y. Digester	514,197	Feb. 6	375	89	66	924
Meuser, Alfons, Longwood, Fla. Implement for straightening rails, bars, &c	519,920	May 15	1715	421	67	886

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Meuser, Alfons, Longwood, Fla. Pump attachment.....	530,193	Dec. 4	205	50, 51	69	1252
Mewer William J., <i>et al.</i> (See Duff, John W., assignor.)						
Mewer, William J., assignor to J. W. Duff, W. J. C. Milliken, Old Orchard, and H. B. Bennett, Portland, Me. Adjusting device for drills, &c.....	529,039	Nov. 13	936	221	69	836
Meyenberg, Julia E., Chicago, Ill. Building-block.....	512,043	Jan. 2	523	123	66	100
Meyer, Albert W., Terre Haute, Ind. Compartment-urn.....	516,938	Mar. 20	1999	471	66	1257
Meyer, Albert W., Terre Haute, Ind. Register-gage for faucets.....	529,040	Nov. 13	938	222	69	837
Meyer, August, assignor of one-half to F. W. Klipper, Baltimore, Md. Bicycle-tire.....	513,433	Jan. 23	2809	688	66	630
Meyer, Charles F., Pittsburg, Pa. Fruit or lard press.....	525,023	Aug. 28	1824	444	68	1040
Meyer, Emil. (See Czepull, Julius J., assignor.)						
Meyer, Franz, Dresden, Germany. Coin-operated lock.....	515,437	Feb. 27	2424	600	66	1352
Meyer, Frederick A., San Francisco, Cal. Music-leaf turner.....	522,074	June 26	2354	566	67	1677
Meyer, Frederick F. and W. S., Newark, N. J. Trolley-wire finder.....	530,954	Dec. 18	1524	361	69	1523
Meyer, George H. A., Hartford, Conn. Motor.....	516,503	Mar. 13	1271	{ 302 } { 303 }	66	1705
Meyer, Herman A., Chicago, Ill. Lathe attachment.....	516,989	Mar. 20	2085	493	66	1873
Meyer, Jean, Düdelingen, Germany. Carburizing iron.....	524,904	Aug. 21	1590		68	982
Meyer, Joseph, Chicago, Ill. Book-leaf holder.....	519,540	Aug. 8	1101	264	67	760
Meyer, Julius, New York, N. Y. Bond for electric railways.....	515,478	Feb. 27	2423	614	66	1363
Meyer, Julius, New York, N. Y. Bond for electric railways.....	518,414	Apr. 17	1700	421	67	344
Meyer, Julius, New York, N. Y. Rail joint and bond for electric railways.....	522,349	July 3	298	77	68	60
Meyer, Martin P., Rochester, N. Y. Electric lamp holder.....	522,690	July 10	879	217	68	185
Meyer, Richard, Berlin, Germany. Measuring and indicating device.....	516,686	Mar. 20	1586	378	66	1781
Meyer, William, Beaver Falls, Pa. Curtain-fixture.....	513,406	Jan. 23	2775	678	66	623
Meyer, William C. (See French and Meyer.)						
Meyer, William E., C. M. Young, and A. V. Boyce, Columbus, Ohio. Wheel.....	524,424	Aug. 14	807	197	68	826
Meyer, William S. (See Meyer, Frederick F. and W. S.)						
Meyering, Henry. (See Burton and Meyering.)						
Meyers, Ernest, Taunton, Mass. Milling-machine.....	517,287	Mar. 27	2603	611	66	1990
Meyers, Frederick, Brooklyn, N. Y., and M. Stoveken, Hoboken, N. J. Hook and eye.....	519,612	May 8	1215	293	67	780
Meyers, Henry C. (See Taggart, William N., assignor.)						
Meyers, John G. (See Chambers, Solomon, assignor.)						
Meyers, John J. (See Burnham and Meyers.)						
Meyrick, Joseph, Jr. (See Carter, Dawson, and Meyrick.)						
Meyrowitz Manufacturing Company. (See Wilson, Harold, assignor.)						
Michael, Jacob A., Dayton, Ohio. Time feeder for animals.....	523,405	July 24	2130	535	68	446
Michael, Jacob C., New York, N. Y. Powder holding and delivering device.....	519,387	May 8	828	202	57	711
Michaels, Leroy J., Tiffin, Ohio. Fence-wire tightener.....	520,325	May 22	2424	590	67	1031
Michalonskj, Kaletan, Munhall, Pa. Conveyor.....	523,674	July 31	2604	649	68	549
Michaud, Jules, Paris, France. Rotary printing-press.....	520,069	May 22	1975	{ 483 } { 484 }	67	948
Michaud, Jules, Paris, France. Rotary printing-machine.....	528,233	Oct. 30	2639	636	69	546
Michaux, William W., Michaux, Va. Harrow.....	526,933	Oct. 2	445	110	69	83
Michel, Hermann. (See Kuersten, Hugo R., assignor.)						
Michels, Michel. (See Pauly and Michels.)						
Michell, Henry C., Toronto, Canada. Non-conducting material and forming same.....	527,439	Oct. 16	1253	308	69	260
Michigan Buggy Company. (See Vorhes, Charles H., assignor.)						
Michigan Fire Ladder and Engine Company. (See Brayton, Richard, assignor.)						
Michigan Stove Company. (See Keep, William J., assignor.)						
Michl, Wenzel R., Wetter-on-the-Ruhr, Germany. Core-attracting solenoid.....	521,269	June 12	916	217	67	1376
Middendorf, William. (See Cramer, Henry W., assignor.)						
Middlebrooke, Hobart C., Rock Rapids, Iowa. Banjo.....	519,409	May 8	861	209	67	717
Middleby, Joseph, Jr., <i>et al.</i> (See Dooley, Thomas B., assignor.)						
Middleby, Joseph, Boston Mass. Bake-oven.....	522,075	June 26	2357	{ 566 } { 567 }	67	1678
Middlekauff, Ellsworth D., and A. N. Aitken, San Francisco, Cal. Check-book.....	526,787	Oct. 2	198	46	69	38
Middleton, Andrew H., <i>et al.</i> (See Carnes, John, assignor.)						
Middleton, Lee, Clarksville, Mo. Harness.....	514,092	Feb. 6	187	43	66	889
Middleton, William G., Atlanta, Ga. Railway-track sander.....	524,783	Aug. 21	1395	340	68	947
Middletown Machine Company. (See Blackie and Shartle, assignors.)						
Middletown Machine Company. (See Shartle, Charles W., assignor.)						
Miehle Printing Press and Manufacturing Company. (See Miehle, Robert, assignor.)						
Miehle, Robert, Chicago, Ill. Mechanical movement.....	520,828	June 5	130	28, 29	67	1221
Miehle, Robert, Chicago, Ill., assignor, by mesne assignments, to Miehle Printing Press and Manufacturing Company, of Illinois. Inking apparatus for printing-presses.....	527,391	Oct. 9	1173	287	69	233
Migliavacca, Henry B., assignor of one-tenth to S. Migliavacca, Napa, Cal. Gas-engine....	528,105	Oct. 23	2409	583	69	489
Migliavacca, Siro. (See Migliavacca, Henry B., assignor.)						
Mignot, Charles F. (See Bergstresser, Stewart L., assignor.)						
Milbank, Luther A., New York, N. Y. Lamp-burner.....	519,865	May 15	1635	393	67	871
Milbank, Nichols, assignor to New York Condensed Milk Company, New York, N. Y. Milk-wagon.....	518,848	Apr. 24	2438	604	67	488
Milburn, Gustave D., Rochester, N. Y. Folding camera.....	530,955	Dec. 18	1526	362	69	1523
Mild, William, Hamilton, Ohio. Refrigerating apparatus.....	511,857	Jan. 2	177	44	66	37
Mildé, Charles, Paris, France. Telephonic apparatus.....	518,263	Apr. 17	1427	357	67	293
Miles, Alfred S., Brooklyn, N. Y. Method of and means for preparing bristles for brush-making.....	522,609	July 10	750	{ 190 } { 191 }	68	162
Miles, Bradford S., Gray's Summit, Mo. Lock.....	525,225	Aug. 28	2176	531	68	1102
Miles, Casper W. (See Miles, Stephen S. and C. W.)						
Miles, Casper W., Cincinnati, Ohio. Air or gas compressor.....	531,552	Dec. 25	2604	623	69	1739
Miles, Edwin G., Detroit, Mich. Toe-weight.....	517,583	Apr. 3	272	62	67	53
Miles, Erastus M., Chicago, Ill. Electric belt.....	521,594	June 19	1508	353	67	1502
Miles, Harmon A. and W. C., Medford, Mass. Cash-register.....	523,439	July 24	2185	{ 550 } { 551 }	68	456
Miles, Manoah, deceased, Russell, Kans.; M. J. Haise, administratrix. Seat.....	512,204	Jan. 2	738	191	66	149
Miles, Stephen S. and C. W., Cincinnati, Ohio. Lubricating refrigerating-machines.....	525,224	Aug. 28	2174	531	68	1101
Miles, W. A., <i>et al.</i> (See Scheuerecker, Joseph, assignor.)						
Miles, William C. (See Miles, Harmon A. and W. C.)						
Milks, Elbert D. (See Feneran and Milks.)						
Mill, Arthur J. F., Aurora, Ind. Radial drill.....	513,128	Jan. 23	2336	{ 562 } { 563 }	66	538
Millar, George G. J., Groveport, assignor of one-half to L. R. Young, Columbus, Ohio. Head-rest for bedsteads.....	530,786	Dec. 11	1255	303	69	1459
Millar, Haldane. (See Parson, Edward A., assignor.)						
Millar, James D., Milwaukee, Wis. Railway-terminal transfer and switch yard.....	517,110	Mar. 27	2314	545	66	1934

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Millard, B. F. (See Berry, Charles M., assignor.)						
Millard, Edward F., Jackson, Mich. Wood-pulp separator	522,997	July 17	1418	354	68	299
Millard, Edward F., Jackson, Mich. Sulfite-fiber separator	523,048	July 17	1503	375	68	315
Millard, Edwin M. (See Kempshall, Eleazer assignor.)						
Millard, Martin S., Kansas City, Mo. Refrigerator-car	513,194	Jan. 23	2437	589	66	558
Millard, Martin S., assignor of one-half to C. Knapp, Kansas City, Mo. Seal-lock	512,657	Jan. 9	1540	{ 369 370 }	{ 66 66 }	303
Millard, Martin S., assignor of one-half to C. Knapp, Kansas City, Mo. Latch	517,353	Mar. 27	2714	637	66	2012
Millard, Minnie A., et al., executors. (See Campbell, Gardiner and G. G.)						
Millard, Sarah A., et al. (See Watson, Nelson M., assignor.)						
Millen, John M. (See Carmack, John W., assignor.)						
Millen, Lodrick M., Elwood, Nebr. Machine for cribbing corn	517,355	Mar. 27	2717	638	66	2013
Miller, Alexander, New York, N. Y., assignor to W. Brown, Jersey City, N. J., and A. J. Miller, New York, N. Y. Steam-engine	531,267	Dec. 18	2694	{ 502 503 }	{ 69 69 }	1625
Miller, Alexander A., Goldsborough, N. C. Car-ventilator	513,407	Jan. 23	2776	678	66	624
Miller, Alvin C., Iola, Kans., assignor of one-third to J. A. Ritzler, Kansas City, Mo. Fire and water proof chimney attachment	515,153	Feb. 20	1933	484	66	1248
Miller, Andrew B., Herbst, Ind. Platform raking attachment for mowers	525,110	Aug. 28	1985	486	68	1068
Miller, Andrew C., assignor of one-half to E. A. Johnson, Commerce, Mo. Baling-press	524,597	Aug. 14	1076	266	68	876
Miller Brothers. (See Miller, John, Jr., assignor.)						
Miller, Charles, New York, N. Y. Toy	520,070	May 22	1977	484	67	948
Miller, Charles C., New York, N. Y. Clamp for testing-machines	517,356	Mar. 27	2720	639	66	2013
Miller, Charles E., and P. M. Haas, Youngstown, Ohio; said Haas assignor of one-fourth to said Miller. Rail joint or coupling	512,733	Jan. 16	1657	398	66	340
Miller, Charles H., Erie, Pa. Bicycle attachment	512,044	Jan. 2	523	123	66	100
Miller, Charles H., Erie, Pa. Gas-store	525,109	Aug. 28	1985	485	68	1068
Miller, Charles L., and J. R. George, Chicago, Ill. Blast-furnace cast-house	518,415	Apr. 17	1702	422	67	344
Miller, Charles L., and J. R. George, Chicago, Ill. Machine for breaking pig-iron	518,416	Apr. 17	1703	{ 422 423 }	{ 67 67 }	344
Miller, Charles L., and J. R. George, Chicago, Ill. Mold for blast-furnace cast-houses	518,417	Apr. 17	1704	423	67	345
Miller, Charles L., and J. R. George, Chicago, Ill. Foundation for molds	518,418	Apr. 17	1705	424	67	345
Miller, Charles W., assignor to J. A. Jeffrey, Columbus, Ohio. Conveyor	526,405	Sept. 25	1915	455	68	1541
Miller, Clinton S., and J. E. Du Bois, Tiffin, Ohio. Refrigerator-car	520,442	May 29	2619	634	67	1084
Miller, Daniel, Columbus, Ohio. Workman's time-recorder	522,738	July 10	975	243	68	201
Miller, Daniel L., assignor of one-fourth to F. W. Hoblitzell, Meyersdale, Pa. Vehicle-brake	523,480	July 24	2272	571	68	470
Miller, David R., et al. (See Clay, William S., assignor.)						
Miller, Du Brul & Peters Manufacturing Company. (See Miller, Fredrick C., assignor.)						
Miller, Edgar E. (See Voisard, Louis F., assignor.)						
Miller, Edward, Jr., Evansville, Ind. Station-indicator	526,111	Sept. 18	1374	{ 320 321 }	{ 68 68 }	1426
Miller, Edward, Jr., assignor to Edward Miller & Company, Meriden, Conn. Argand lamp	514,158	Feb. 6	303	72	66	910
Miller, Edward H. (See Hagen, Ferdinand J., assignor.)						
Miller, Edwin H. (See Smith and Miller.)						
Miller, Frank. (See Finch, John M., assignor.)						
Miller, Fred R., et al. (See Reiley, Matthew S., assignor.)						
Miller, Frederick W., Des Moines, Iowa. Hame-tug	515,438	Feb. 27	2425	601	66	1352
Miller, Fredrick C., Newport, Ky., assignor to Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio, and New York, N. Y. Cigar-mold	522,912	July 10	1261	311	68	254
Miller, George A. (See Maxon, Thomas, assignor.)						
Miller, George H. (See Finch, Frederick A., assignor.)						
Miller, George H., assignor of one-half to B. J. Rosewater, Eureka Springs, Ark. Harvester	515,549	Feb. 27	2597	{ 643 644 }	{ 66 66 }	1385
Miller, George W., Kalamazoo, Mich. Sugar-wagon box	530,439	Dec. 4	627	156	69	1330
Miller, Henry. (See Grant and Miller.)						
Miller, Henry F., Lima, Ohio. Evaporating-pan	518,962	May 1	40	11	67	544
Miller, Henry H. (See Knowles and Miller.)						
Miller, Herman, New York, N. Y. Machinery for seaming metal cans	519,088	May 1	255	60, 61	67	585
Miller, Herman, New York, N. Y. Soldering-machine	531,419	Dec. 25	2365	{ 565 566 }	{ 69 69 }	1693
Miller, Hezekiah, Hamlin, assignor of one-half to F. L. Henry, Atlantic, Iowa. Combined reel and barrel-carrier	513,129	Jan. 23	2339	564	66	539
Miller, Horace B., trustee. (See Forbes, William D., assignor.)						
Miller, Jacob, deceased; L. Miller, Akron, and R. A. Miller, Canton, Ohio, administrators. Sheaf-carrier for binding and harvesting machines	521,292	June 12	960	{ 227 228 }	{ 67 67 }	1384
Miller, James, assignor of one-half to C. Lord, Orlando, Fla. Axle for vehicles	528,482	Oct. 30	3065	743	69	623
Miller, James A., New Haven, Conn. Suspenders	513,709	Jan. 30	3319	819	66	758
Miller, James B. (See Elliott, Charles F., assignor.)						
Miller, James G., Youngstown, Ohio. Rail joint or coupling	516,870	Mar. 20	1882	445	66	1836
Miller, James L., assignor to Frank Miller Company, New York, N. Y. Stopper	523,539	July 24	2370	595	68	489
Miller, James O., Rochester, Ind. Car-coupling	526,250	Sept. 18	1611	378	68	1470
Miller, John, Jr., assignor to Miller Brothers, Amesbury, Mass. Jump-seat for carriages	512,618	Jan. 9	1468	{ 354 355 }	{ 66 66 }	289
Miller, John, assignor of two-thirds to J. Huston and I. C. Moore, Newton, N. J. Grinding device for rotary cutters	531,547	Dec. 25	2594	621	69	1737
Miller, John A., Lebanon, Pa. Toaster or broiler	523,127	July 17	1654	413	68	343
Miller, John A., and J. H. Warmoth, Austin, Tex. Harness-saddle	529,287	Nov. 13	1366	327	69	913
Miller, John B., Mount Vernon, Ohio. Coin-controlled apparatus	512,205	Jan. 2	789	192	66	149
Miller, John C. (See Hill, Wilford A., assignor.)						
Miller, John C., Waterbury, Conn. Wick-adjuster for central-draft lamps	522,691	July 10	881	218	68	185
Miller, John E., Linwood, N. C. Cultivator and planter	519,044	May 1	173	41	67	569
Miller, John H., assignor to United States Wind Engine and Pump Company, Batavia, Ill. Windmill-brake	531,420	Dec. 25	2368	566	69	1694
Miller, John K., Minneapolis, Minn. Dust-collector	513,434	Jan. 23	1210	689	66	630
Miller, John R. (See Cretcher and Miller.)						
Miller, John S., Brooklyn, assignor to D. B. Fraser, New York, N. Y. Machine for cleaning and separating coffee	530,546	Dec. 11	846	{ 209 210 }	{ 69 69 }	1386
Miller, John W., Dayton, Ohio. Cigar-piercer	522,076	June 26	2359	567	67	1678
Miller, Joseph, Sr., assignor of one-half to F. M. Battles, Huntingburg, Ind. Well or cistern cleaner	519,431	May 8	895	216	67	724
Miller, Joseph L., and W. T. Crosse, Pittsburg, Pa. Composition of matter for making chalk engraving-plates	514,015	Feb. 6	62	15	66	866
Miller, Joseph R., assignor of one-half to J. R. Phillips, Erie, Pa. Adjustable chair	523,049	July 17	1506	376	68	316

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Miller, Junius G. (See Griffiths and Miller.)						
Miller, Lewis. (See Ellinwood, Augustus E., assignor.)						
Miller, Lewis, <i>et al.</i> , administrators. (See Miller, Jacob.)						
Miller, Lewis, Akron, Ohio. Grain-binding harvester.....	530,194	Dec. 4	205	51, 52	69	1252
Miller, Lewis C., St. Louis, Mo. Sash-fastener.....	524,905	Aug. 21	1591	3-9 390	68	982
Miller, Lewis C., St. Louis, Mo. Sash-fastener.....	531,443	Dec. 25	2423	577	69	1705
Miller, Louis L., Newport, Ky., assignor to Ross-Moyer Manufacturing Company, Cincinnati, Ohio. Sewing-machine.....	515,712	Feb. 27	2860	712 713	66	1437
Miller, Louis L., Newport, Ky., assignor to Ross-Moyer Manufacturing Company, Cincinnati, Ohio. Pop-stitch sewing-machine.....	515,713	Feb. 27	2864	714	66	1437
Miller, Louis L., Newport, Ky., assignor to Ross, Moyer Manufacturing Company, Cincinnati, Ohio. Power-transmitter.....	520,326	May 22	2425	590	67	1031
Miller, Lyman, Lexington, Ky. Box-top.....	525,917	Sept. 11	1046	237	68	1353
Miller, Martin D., and B. H. Oldfield, Leavenworth, Kans. Curtain-fixture.....	514,564	Feb. 13	982	248	66	1056
Miller, Morgan B., Pittsburg, Pa., assignor to American Washboard Company, Cleveland, Ohio. Washboard.....	530,490	Dec. 4	736	179 180	69	1349
Miller, Napoleon B., assignor of one-half to F. Mohle, Omaha, Nebr. Street-sweeper.....	527,757	Oct. 16	1777	428	63	358
Miller, Nathan F., <i>et al.</i> (See Hakewessell, Reinhold, assignor.)						
Miller, Nathan F., <i>et al.</i> (See Henn, Edwin C., assignor.)						
Miller, Norman B., assignor to C. A. Daniels, Philadelphia, Pa. Packing.....	524,178	Aug. 7	358	84	68	727
Miller, Oran C., assignor of one-half to O. G. Meachem, Union, Mich. Gate.....	514,375	Feb. 6	672	170	66	979
Miller, Oscar L., Ravenna, Nebr. Plate and cup and saucer holder.....	515,299	Feb. 20	2184	541	66	1296
Miller, Oscar W. (See Liberty, Jerry C., assignor.)						
Miller, Phillip, and J. E. Lambeth, Gainesville, Fla. Bicycle dust-guard attachment.....	515,007	Feb. 20	1695	426	66	1205
Miller, Robert A., <i>et al.</i> , administrators. (See Miller, Jacob.)						
Miller, Samuel R., Decatur, Ill. Device for chalking lines.....	520,998	June 5	442	105	67	1277
Miller, Samuel S. (See Rickard and Miller.)						
Miller, Thomas, Jersey City, N. J. Steam-boiler.....	522,077	June 26	2360	568	67	1678
Miller, Thomas, Jr., Springborough, Ohio. Bicycle.....	522,610	July 10	757	191	68	163
Miller, Thomas S., South Orange, N. J. Hoisting and conveying apparatus.....	521,035	June 5	500	119	67	1257
Miller, Thomas S., South Orange, N. J. Cableway.....	523,364	July 24	2059	517 518	68	434
Miller, Thomas S., South Orange, N. J. Dumping device.....	525,084	Aug. 23	1938	474	68	1060
Miller, Thomas S., South Orange, N. J., and H. N. Corvill, Brooklyn; said Corvill assignor to Lidgetwood Manufacturing Company, New York, N. Y. Conveying apparatus.....	512,446	Jan. 9	1209	292 293	66	240
Miller, W. Gordon. (See Goeddel, Albert C., assignor.)						
Miller, Wile S., assignor of two-thirds to O. E. Lawton and E. A. Hammond, Spokane, Wash. Car-coupling.....	520,443	May 29	2620	634	67	1084
Miller, William, Sparrow's Point, Md. Cutter-head for twist-lathes.....	513,810	Jan. 30	3465	853	66	756
Miller, William H. (See Kimball, Walter D., assignor.)						
Miller, William H., Spring Creek, Va. Saw-set.....	519,563	May 8	1172	282	67	772
Miller, William H., South Bend, Ind. Sprinkling-head for street-sprinklers.....	520,693	May 29	3052	739	67	1163
Miller, William H., Camden, N. J. Fountain or hydraulic brush.....	524,448	Aug. 14	846	203	68	833
Miller, William H., assignor to G. H. Benjamin, New York, N. Y. Electrical governor.....	520,267	May 22	2335	566 567	67	1014
Miller, William J., Denver, Colo. Glass-cutter.....	515,298	Feb. 20	2183	541	66	1296
Miller, William P., Melrose, Cal. Recovering precious metals.....	514,157	Feb. 6	300	72	66	910
Miller, William P., assignor to William P. Miller Company, Brooklyn, N. Y. Lubricator.....	531,122	Dec. 12	1837	436	69	1580
Miller, William S., Meyersdale, Pa. Thrashing-machine.....	511,786	Jan. 2	66	17	66	16
Miller, William V., assignor of one-half to A. W. Toole, St. Joseph, Mo. Buttonhole sewing-machine.....	517,354	Mar. 27	2715	638	66	2012
Miller, William W., Noyo, Cal. Reversible plow.....	516,743	Mar. 20	1692	400	66	1799
Miller, William W., Memphis, Tenn. Hame-hook.....	525,609	Sept. 4	480	115	68	1241
Miller, Zeno H., Sherwood, Ohio. Planter.....	520,660	Nov. 20	2032	487	69	1055
Miller's Falls Company. (See Lynch, John D., assignor.)						
Miller's Falls Company. (See McCoy and Pratt, assignors.)						
Millholland, William K., Austin, Ill. Adjusting device for journal-bearings.....	512,984	Jan. 16	2123	504	66	427
Milligan, John W., and J. A. Tomlinson, Eddy, N. Mex. Ter. Automatic flood-gate.....	523,606	July 24	2471	621	68	507
Milligan, Thomas P., South Orange, N. J. Electrical device for towing vehicles.....	518,673	Apr. 24	2142	535 536	67	437
Milliken, Benjamin D., Somerville, Mass. Advertising device.....	521,961	June 26	2163	519	67	1642
Milliken, John A., Brooklyn, assignor to A. M. Clewee, New York, N. Y. Water-gage.....	529,560	Nov. 20	1878	447	69	1027
Milliken, William H., <i>et al.</i> (See Nickerson, Hiram B., assignor.)						
Milliken, William J. C., <i>et al.</i> (See Mewer, William J., assignor.)						
Milliron, Samuel F., Baltimore, Md. Hanger for books or papers.....	520,856	June 5	188	41	67	1231
Millis, Robert, Dunedin, New Zealand. Paper-bag-making machine.....	513,519	Jan. 30	2983	734 735 736	66	697
Millman, John M., <i>et al.</i> (See Wauner, Martin, assignor.)						
Milloy, Peter D., Buffalo, N. Y. Trolley-catcher.....	531,380	Dec. 25	2304	550	69	1681
Mills, Anson, U. S. Army. Belt-fastener.....	525,790	Sept. 11	815	186	68	1313
Mills, Burette, M., Hillsborough, Tex. Harrow attachment.....	522,178	June 26	2534	608	67	1711
Mills, Columbus, Gas City, Ind. Device for heating and ventilating rooms.....	517,759	Apr. 3	579	142 143	67	112
Mills, E. Deloss, Clinton, and L. Emdin, assignors to Mills Hop-Picking Machine Company, Syracuse, N. Y. Hop-picking machine.....	524,333	Aug. 14	622	150 151	68	793
Mills, Francis A., assignor, by mesne assignments, of one-half to J. Mundell, Philadelphia, Pa. Waxing and heating device for shoe-sewing machines.....	524,334	Aug. 14	623	151 152	68	794
Mills, Francis A., assignor, by mesne assignments, of one-half to J. Mundell, Philadelphia, Pa. Tension device for shoe-sewing machines.....	524,335	Aug. 14	626	152 153	68	794
Mills, Francis A., assignor, by mesne assignments, of one-half to J. Mundell, Philadelphia, Pa. Shoe-sewing machine.....	524,336	Aug. 14	628	153 154 155	68	794
Mills, Francis A., assignor, by mesne assignments, of one-half to J. Mundell, Philadelphia, Pa. Work supporting and feeding device for shoe-sewing machines.....	524,337	Aug. 14	639	155 156 157	68	795
Mills, Francis A., assignor, by mesne assignments, of one-half to J. Mundell, Philadelphia, Pa. Loop-forming mechanism for shoe-sewing machines.....	524,338	Aug. 14	648	158 159 160	68	796
Mills, Francis A., assignor, by mesne assignments, of one-half to J. Mundell, Philadelphia, Pa. Shoe-sewing machine.....	524,339	Aug. 14	657	160 161	68	797
Mills, Francis A., assignor of one-half to J. Mundell, Philadelphia, Pa. Wax-thread-heating device for sewing-machines.....	524,340	Aug. 14	660	161	68	798

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Mills, Francis E., assignor to H. A. Deming, San Francisco, Cal. Body of least resistance for vessels, &c.	514,835	Feb. 13	1433	360	66	1142
Mills, Frank W., assignor to Bogue & Mills Manufacturing Company, Chicago, Ill. Rail-way-crossing gate	522,798	July 10	1085	268	68	221
Mills, George, Radcliffe, England. Valve for fire-extinguishing systems.	514,486	Feb. 13	852	218	66	1031
Mills, George, London, England. Stave-jointing machine	523,225	July 17	1824	459	68	374
Mills, George E. (See Sperry and Mills.)						
Mills, George H., Laurel, Mont. Tongue-support.	518,744	Apr. 24	2278	566	67	460
Mills, George P. (See Rucker and Mills.)						
Mills Hop-Picking Machine Company. (See Mills and Emdin, assignors.)						
Mills, Isaac, and J. Yonngson, Hamilton, Canada. Automatic fire-escape.	527,180	Oct. 9	819	199	69	167
Mills, James J. (See Wilkin, Joseph A., assignor.)						
Mills, Jonathan, New York, assignor of two-thirds to E. H. Converse, Brooklyn, and W. F. Steele, New York, N. Y. Air-induction apparatus for furnaces.	527,615	Oct. 16	1543	374	69	314
Mills, Lizzie B., Baltimore, Md. Device for lowering keys from windows.	516,871	Mar. 20	1884	446	66	1837
Mills, Morris, Lynn, assignor of one-half to W. Neilson, Malden, Mass. Car-coupling.	529,335	Nov. 13	1448	349	69	931
Mills, Norman T., assignor of one-half to H. A. Prentice, Boston, Mass. Stem winding and setting watch	523,169	July 17	1729	433	68	357
Mills, Sulloway. (See Lang and Daniell, assignors.)						
Mills, Thomas B. (See Kamp, George, assignor.)						
Mills, William, Sunderland, England. Engaging and disengaging gear for boats	512,045	Jan. 2	524	124	66	100
Milne, John, New York, N. Y. Fuel-economizer.	519,023	May 1	136	33	67	562
Milsted, William N., New York, N. Y. Prepayment gas-meter	526,251	Sept. 18	1615	{ 378 379	68	1470
Milton, John, Washington, D. C. Steam-boiler furnace	516,974	Mar. 20	2057	{ 486 487	66	1869
Milton, John, Washington, D. C. Steam-boiler furnace	516,975	Mar. 20	2059	487	66	1869
Miltonberger, John F. (See Shackelford and Miltonberger.)						
Miltonberger, John F., J. S. Wynant, and C. Schott, assignors to said Wynant and Schott, T. J. Shackelford, and C. Kirkpatrick, Warsaw, Ind. Sash-fastener.	519,476	May 8	974	235	67	736
Mitzlaff, Max O., Eggesin, Germany. Screw-propeller.	515,479	Feb. 27	2484	614	66	1363
Mitzlaff, Max O., Eggesin, Germany. Device for removing ashes from marine steam-vessels	515,480	Feb. 27	2485	615	66	1364
Milwaukee Gas Stove Company. (See Detwiler, Alfred E., assignor.)						
Milwaukee Harvester Company. (See Crandall, Henry F., assignor.)						
Milwaukee Sander Manufacturing Company. (See Schmitt, Frederick E., assignor.)						
Mimard, Etienne. (See Blachon and Mimard.)						
Mims, Edward J., Edgefield, S. C. Treating checks to prevent fraudulent alteration thereof	512,985	Jan. 16	2125	504	66	427
Miner, Benjamin D. (See Searce, Jefferson B., assignor.)						
Miner, Christopher C. (See Miner, John J., assignor.)						
Miner, H. C., trustee. (See Waite, Henry E., assignor.)						
Miner, Harlan S. (See Moreau and Miner.)						
Miner, James H., Biloxi, Miss. Sawmill-dog.	511,858	Jan. 2	178	44	66	37
Miner, James H., Biloxi, Miss. Sawmill-dog.	521,723	June 19	1723	408	67	1544
Miner, John, Detroit, Mich. Boring-machine.	518,195	Apr. 10	1311	328	67	257
Miner, John C., Smyrna, assignor of one-half to H. Fox, Jr., Nelson, Nebr. Car-brake.	526,934	Oct. 2	447	110	69	84
Miner, John J., Fort Wayne, assignor of one-half to C. C. Miner, Columbia City, Ind. Water-heater, cleanser, and scale-preventer.	527,616	Oct. 16	1544	374	69	314
Miner & Peck Manufacturing Company. (See Peck, George W., assignor.)						
Miner, Willard M., Plainfield, N. J., assignor to American Manufacturing and Engineering Company, New York, N. Y. Car-lighting.	516,336	Mar. 13	977	232	66	1651
Mingen, Thomas F., Collingdale, Pa. Puzzle or solitaire game	512,658	Jan. 9	1541	370	66	304
Minger, John A., Bern, Kans. Saw-setting tool.	524,641	Aug. 14	1158	285	68	891
Minie, Frank. (See Marceau and Minie.)						
Minier, Maxwell, Elmira, N. Y. Step-ladder	529,871	Nov. 27	2387	571	69	1132
Mining and Dredging Power Company. (See Harsen, Edward D., assignor.)						
Mining and Dredging Power Company. (See Hussey, Levi, assignor.)						
Minis, A., et al. (See Warrand, Constantine B., assignor.)						
Minister, Henry, Zaleski, Ohio. Cloth-measuring machine	527,617	Oct. 16	1545	374	69	315
Mink, Fritz, assignor to Keystone Watch Case Company, Philadelphia, Pa. Engraver's chuck.	520,797	June 5	69	14, 15	67	1210
Minneapolis Threshing Machine Company. (See Anderson, Gustav, assignor.)						
Minnemeyer, Edward G., Peoria, Ill. Pipe-banger.	512,257	Jan. 2	868	209	66	164
Minnemeyer, Edward G., Chicago, Ill. Strainer for conductor-pipes.	522,667	July 10	839	209	68	178
Minnesota Smokeless Furnace Company. (See Smith, Samuel N., assignor.)						
Minney, Almon, Millbury, Mass. Lease-rods for looms.	520,444	May 29	2622	635	67	1085
Minnigh, Ephraim H., Gettysburg, Pa. Cash-drawer and manual recorder	518,264	Apr. 17	1428	{ 357 358	67	294
Mirrlees, William J., and D. Ballingall, Glasgow, Scotland. Apparatus for evaporating liquids	521,724	June 19	1724	{ 408 409 410	67	1544
Misell, David, assignor to N. S. Rosenau, New York, N. Y. Electric cigar-lighter	520,445	May 29	2622	635	67	1085
Misell, David, assignor to N. S. Rosenau, New York, N. Y. Electrically-illuminated clock.	520,446	May 29	2623	635	67	1085
Mishler, Frank J. (See Mishler, Milton B. and F. J.)						
Mishler, Milton B. (See Smith and Mishler.)						
Mishler, Milton B., Ravenna, Ohio. Machine for making balls.	528,886	Nov. 6	663	159	69	767
Mishler, Milton B., Ravenna, and F. J. Mishler, Mogadore, Ohio. Machine for making grave or lot markers.	520,652	May 29	2963	717	67	1147
Mishler, Phares M., Lancaster, Pa. Horse-cover fastening.	512,385	Jan. 9	1090	264	66	218
Misner, Edgar D., Brantford, assignor of one-half to W. H. Hanes, Lynden, Canada. Wheel.	528,785	Nov. 6	467	114	69	731
Mississippi Glass Company. (See Hartung, Charles C., assignor.)						
Mistaro, Antonio, Vienna, Austria-Hungary. Fire-generator.	515,782	Mar. 6	91	21	66	1471
Mitchell, Adin W., Dalton, Ohio. Whiffletree	522,611	July 10	758	191	68	163
Mitchell, Adolph L., Rockville Centre, N. Y. Cork-shell-cutting machine.	520,605	May 29	2894	699	67	1134
Mitchell, Albert E., Passaic, N. J., assignor to B. Patterson, Cleveland, Ohio. Draft-rig- ging for cars.	517,145	Mar. 27	2366	559	66	1944
Mitchell, Albert E., Passaic, N. J., assignor to B. Patterson, Cleveland, Ohio. Draft-rig- ging for cars.	517,146	Mar. 27	2367	559	66	1944
Mitchell, Andrew, assignor of one-half to J. Maitland, Carbonado, Wash. Bucket	526,084	Sept. 18	1320	308	63	1417
Mitchell, Andrew W., Boston, Mass. Hand operating mechanism for electric locomotives.	530,956	Dec. 18	1528	362	69	1524
Mitchell, Andrew W., Boston, Mass. Brake and power controller for electric cars	531,268	Dec. 18	2096	{ 503 504	69	1626
Mitchell, Arobine C., Ennis, Mont. Mixer or heater.	519,584	May 8	1173	282	67	773

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Mitchell, Charles H. (See Burdwin, John W., assignor.)						
Mitchell, D. J., <i>et al.</i> (See Hall, James B., assignor.)						
Mitchell, George H., New York, N. Y. Combined can-opener and vegetable-parer.....	528,517	Oct. 30	3118	756	69	632
Mitchell, George M., <i>et al.</i> (See Kendt, William F., assignor.)						
Mitchell, George W. (See Taylor, Horace H., assignor.)						
Mitchell, Henry C., <i>et al.</i> (See Sparham, Terence, assignor.)						
Mitchell, Henry J., Chicago, Ill. Door-locking burglar-alarm.....	528,206	Oct. 30	2591	626	69	536
Mitchell, J. Henry. (See Harton, Pembroke D., assignor.)						
Mitchell, James H., Philadelphia, Pa. Machine for coating cakes, &c., with icing.....	525,053	Aug. 28	1885	461	68	1051
Mitchell, James H., Philadelphia, Pa. Drive-chain.....	526,161	Sept. 18	1456	{ 340 341 }	{ 68 68 }	{ 1441 1441 }
Mitchell, James O., Stewart's Draft, assignor of one-half to S. E. Rankin, Basic City, Va. Car-coupling.....	521,887	June 26	2002	483	67	1613
Mitchell, John M., Toledo, Ohio. Stern paddle-wheel and rudder.....	523,817	July 31	2861	710	68	595
Mitchell, Kerr M. (See Charlton and Mitchell.)						
Mitchell, Kerr M., St. Joseph, Mo. Bench for inclined retorts.....	524,856	Aug. 21	1521	372	68	969
Mitchell, Kerr M., St. Joseph, Mo. Inclined retort.....	524,857	Aug. 21	1523	372	68	969
Mitchell, McClellan, Omaha, Nebr. Derailing-block.....	522,300	July 3	220	59	68	44
Mitchell, Robert C., New York, assignor of one-half to H. W. Vail, Brooklyn, N. Y. Rheostat and heater.....	528,907	Nov. 6	718	169	69	778
Mitchell, Robert G., Huntington, Ind. Window-cleaner.....	528,908	Nov. 6	719	169	69	778
Mitchell, Robert W. S., and J. Murphy, Passaic, N. J. Edge-folder for fabrics.....	519,131	May 1	341	81	67	603
Mitchell, Randolph J., Jenkintown, Pa. Window.....	520,327	May 22	2426	590	67	1032
Mitchell, Tobias, <i>et al.</i> (See Johnson, James L., assignor.)						
Mittelsdorf, Henry, Orange, N. J. Controller-handle.....	531,052	Dec. 18	1701	404	69	1555
Mitting, Ebenezer K., Chicago, Ill., assignor, by mesne assignments, to A. Domeier, London, England. Recovering glycerin and salt from spent soap-lye.....	522,023	June 26	2276	.....	67	1662
Mitting, Ebenezer K., Chicago, Ill., assignor, by mesne assignments, to A. Domeier, London, England. Recovering glycerin and salt from spent soap-lye.....	522,998	July 17	1419	.....	68	299
Mitts, Sylvanis S. (See Merrill, William, assignor.)						
Mivelaz, Louis L., Vicksburg, Miss. Butter molding and cutting device.....	523,584	July 24	2439	611	68	502
Mix, Edgar W., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric measuring-instrument for multiphase systems.....	518,265	Apr. 17	1430	358	67	294
Mix, Eugene M. and J. E., assignors to O. F. Swift, Buffalo, N. Y. Combined lock and latch.....	521,984	June 26	2213	{ 532 533 }	{ 67 67 }	{ 1651 1651 }
Mix, Frank W., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock.....	524,642	Aug. 14	1159	285	68	892
Mix, Frank W., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock.....	524,643	Aug. 14	1160	286	68	892
Mix, James E. (See Mix, Eugene M. and J. E.)						
Mixon, James W. (See Driever and Mixon.)						
Mize, George M., Batesville, Ark. Drag-saw guide.....	528,964	Nov. 13	819	191	69	816
Moackler, William, assignor to F. Sulzberger, New York, N. Y. Disinfecting apparatus.....	526,252	Sept. 18	1618	379	68	1471
Mobbs, Harry W., and A. Lewis, Kettering, England. Last.....	517,165	Mar. 27	2406	567	66	1952
Mober, Charles J., Minneapolis, Minn. Grain-cleaner.....	520,653	May 29	2964	717	67	1147
Mock, Charles F., Louisville, Ky. Hame.....	531,324	Dec. 25	2302	527	69	1662
Moderegger, Carl, Vienna, Austria-Hungary, assignor to Siemens & Halske, Berlin, Germany. Apparatus for working railway-switches by screw action.....	513,520	Jan. 30	2988	737	66	698
Moderegger, Carl, Vienna, Austria-Hungary, assignor to Siemens & Halske, Berlin, Germany. Method of and means for operating and controlling electromotors.....	530,114	Dec. 4	67	19	69	1227
Moderegger, Carl, Vienna, Austria-Hungary, assignor to Siemens & Halske, Berlin, Germany. Electrical switch setting, indicating, and controlling device.....	526,813	Oct. 2	235	57	69	44
Moderegger, Carl, Vienna, Austria-Hungary, assignor to Siemens & Halske, Berlin, Germany. Electrical switch setting and locking device.....	531,130	Dec. 18	1838	{ 436 437 }	{ 69 69 }	{ 1580 1580 }
Modes, William F., Streator, Ill. Hood or muffle for glass-tank furnaces.....	514,487	Feb. 13	853	218	66	1032
Modler, Gustav. (See Berk, Richard B., assignor.)						
Moe, Hiram G. (See Trumble, Chauncey B., assignor.)						
Moe, Oscar J., New York, N. Y. Postage-stamp-attaching machine.....	517,472	Apr. 3	96	22	67	20
Moehn, John N., Milwaukee, assignor of one-half to M. French, Racine, Wis. Railway-switch.....	514,953	Feb. 20	1616	406	66	1191
Moehn, John N., Druecker, and J. Graves, assignors of one-third to D. J. Hayes, Milwaukee, Wis. Bicycle.....	514,198	Feb. 6	376	90	66	925
Moehn, John N., assignor of one-half to J. Katz, A. Mahler, and G. De Grasse, Milwaukee, Wis. Check-hook.....	529,561	Nov. 20	1880	447	69	1027
Moeller, Max, assignor to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Blue dye.....	521,985	June 26	2215	.....	67	1651
Moeller, Max, assignor to Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Blue dye.....	521,986	June 26	2215	.....	67	1651
Moerer, Max, Berlin, and R. Erpel, Tegelart, Germany. Dry dock.....	526,190	Sept. 18	1509	353	68	1450
Moffett, Leslie A., <i>et al.</i> (See Johnson, James L., assignor.)						
Moffitt, Melvin W., <i>et al.</i> (See Hall, Charles W., assignor.)						
Moffitt, William E., and J. L. Williams, Pilot Point, Tex. Cotton elevator and distributor.....	528,177	Oct. 30	2532	614	69	527
Moffitt, William H., Lexington, N. C. Bed-brace.....	525,226	Aug. 28	2178	532	68	1102
Mohle, Frederick. (See Miller, Napoleon B., assignor.)						
Mohn, John, Detroit, Mich. Bung bushing and tap.....	530,703	Dec. 11	1117	271	69	1433
Mohr, Frederik, assignor to Grusonwerk, Magdeburg-Buckau, Germany. Recoil-check for wheeled gun-carriages.....	512,120	Jan. 2	652	156	66	125
Mohr, Leopold, and H. Perk, St. Louis, Mo.; said Perk assignor to said Mohr. Egg-beater, &c.....	516,214	Mar. 13	787	{ 183 184 }	{ 66 66 }	{ 1616 1616 }
Mohr, Ulrick R., Rock Island, Ill., assignor of one-half to J. B. Morgan, Davenport, Iowa. Mixer.....	530,051	Nov. 27	2732	655	69	1197
Mohrdieck, Peter. (See Dubero and Mohrdieck.)						
Mohroff, Edward W., and C. W. Dobelin, Madison, Wis. Conductor-hook.....	518,196	Apr. 10	1312	329	67	257
Mohs, Julius. (See Eschenbeck, Max, assignor.)						
Moldenhauer, Carl, Frankfurt-on-the-Main, Germany. Precipitating precious metals out of their solutions.....	512,046	Jan. 2	525	.....	66	101
Moldenhauer, Carl, Frankfurt-on-the-Main, Germany. Precipitating gold or other precious metals from their solutions.....	522,739	July 10	977	.....	68	201
Molesworth, Arthur H., London, England. Geocentric astronomical chart.....	521,725	June 19	1726	410	67	1544
Moline Plow Company. (See Lindgren, August, assignor.)						
Moline Scale Company. (See Crompton, Samuel S., assignor.)						
Mollart, Lobegott. (See Parks and Mollart.)						
Möller, Carl F., Berlin, Germany. Bottle-stopper.....	517,958	Apr. 10	901	225	67	185

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Molloy, James F., New Haven, Conn. Wire suspender-buckle	517,875	Apr. 10	747	187	67	158
Molloy, James F., New Haven, Conn. Buckle	528,008	Oct. 23	2245	542	69	459
Molly, Charles F., Philadelphia, Pa. Safety-envelope	526,112	Sept. 18	1375	321	68	1426
Moloney, John, Jr., Philadelphia, Pa. Flushing-tank	519,337	May 8	728	179	67	692
Molyneux, Patrick, London, England. Disinfectant and preparing same	514,235	Feb. 6	449	.....	66	937
Mompot, Peter M., and O. Sigwart, assignors to Seneca Glass Company, Fostoria, Ohio. Glass-mold	527,801	Oct. 23	1853	445	69	389
Monaghan, James. (See Weir, John, assignor.)						
Monahan, Clarence, Pullman, Ill. Machine for forming hooks and eyes upon rods	515,300	Feb. 20	2186	542	66	1296
Monarch Cycle Company. (See Binns, William H., assignor.)						
Moncur, Ogilvie, Yuba, Cal. Carburetor	528,377	Oct. 30	2877	697	69	589
Mond, Ludwig, Northwich, England. Obtaining chlorine	529,130	Nov. 13	1087	262	69	864
Mongean, George E., Lowell, Mass. Shoe-lace holder	528,300	Oct. 30	2753	665	69	566
Monitor Manufacturing Company. (See Carpenter, Adelbert, assignor.)						
Monjo, Louis, <i>et al.</i> (See Graves, John, assignor.)						
Monks, Frank H., Brookline, and M. L. Severy, assignors to F. Doane, C. F. Crowell, and M. L. Severy, trustees, Boston, Mass. Apparatus for utilizing solar energy	528,255	Oct. 30	2676	645	69	554
Monneuse, Bernhard H., Brooklyn, N. Y. Musical instrument	521,662	June 19	1619	379	67	1523
Monoline Composing Company. (See Skatulla, Cölostin, assignor.)						
Monro, George N., Jr., Pittsburg, Pa. Pneumatic tire	517,584	Apr. 3	273	63	67	54
Monroe, Ansil W., Philadelphia, Pa. Making molds for plaster casts	529,479	Aug. 7	359	.....	68	772
Monroe, David M., assignor to R. T. Smith, Baltimore, Md. Device for applying solder- ing-dux	529,336	Nov. 13	1449	{ 349 350 }	{ 69 69 }	{ 931 931 }
Monroe, Marion B., New Orleans, La. Extension-ladder	524,784	Aug. 21	1396	341	68	947
Monroe, Marion B., New Orleans, La. Controller for electric cars	524,785	Aug. 21	1397	341	68	947
Monroe, Nathaniel S., Arcola, Ill. Road-leveler	525,426	Sept. 4	186	47	68	1185
Monselese, Giulio, Milan, Italy. Extracting sugar from sorghum	522,478	July 3	519	{ 131 132 }	{ 68 68 }	{ 103 103 }
Monshansen, Nic, Ottawa, Ill. Roof-tile	516,570	Mar. 13	1386	330	66	1727
Montaignac, Renaud de. (See Landry and Beyroux, assignors.)						
Montgomerie, John C., Dalmore, Stair, Scotland. Extracting gold or silver from ores	524,601	Aug. 14	1081	.....	68	877
Montgomerie, John C., Dalmore, Stair, Scotland. Extracting gold and silver from ores	524,602	Aug. 14	1082	.....	68	877
Montgomery, Albert F., assignor to L. A. Lockwood, Lincoln, R. I. Coating electric con- ductors	528,301	Oct. 30	2754	665	69	567
Montgomery, Harry C., Cleveland, Ohio. Sink-trap	528,335	Oct. 30	2807	678	69	576
Montgomery, John M., Butte, Mont. Ore-concentrator	531,381	Dec. 25	2306	550	69	1682
Montgomery, Mamie M., Gowensville, S. C. Churn	528,129	Oct. 23	2454	{ 593 594 }	{ 69 69 }	{ 497 497 }
Montgomery, Thomas B. (See Thompson, Jacob, assignor.)						
Montgomery, Thomas B., assignor to Benicia Agricultural Works, Benicia, Cal. Revers- ible overlap-disk harrow	525,960	Sept. 11	1122	255	68	1368
Montgomery, W. J., <i>et al.</i> (See Cook, Thomas C., assignor.)						
Montross, Levi H., assignor to Montross Manufacturing Company, Camden, N. J. Clap- board or siding-strip for houses	512,986	Jan. 16	2126	505	66	427
Montross, Levi H., assignor to Montross Manufacturing Company, Camden, N. J. Manu- facture of shingle-siding and machinery therefor	529,661	Nov. 20	2033	{ 487 488 }	{ 69 69 }	{ 1056 1056 }
Montross, Levi H., Camden, N. J., assignor of three-fourths to A. Segal, Philadelphia, Pa. Match-making machine	525,791	Sept. 11	816	186	68	1313
Montross, Levi H., Camden, N. J., assignor to C. and H. W. Merchant, Philadelphia, Pa. Roofing	511,859	Jan. 2	180	44	66	38
Montross Manufacturing Company. (See Montross, Levi H., assignor.)						
Moody, James M. and S. B., Harwich, Mass.; said James M. Moody assignor to said S. B. Moody, Cranberry-gatherer	522,379	July 3	349	90	68	69
Moody, James M. and S. B., Harwich, Mass.; said James M. Moody assignor to said S. B. Moody, Cranberry-picker	522,942	July 10	1312	327	68	264
Moody, James M. and S. B., assignors to A. M. Nickerson, Harwich, Mass. Cranberry- gatherer	527,020	Oct. 2	573	139	69	108
Moody, Manville L., Phillipsburg, Mont. Whiffletree	524,723	Aug. 21	1298	317	68	929
Moody, Sealy B. (See King, John A., assignor.)						
Moody, Sidney B. (See Moody, James M. and S. B.)						
Moody, Thomas F., <i>et al.</i> (See Peirce, Almy L., assignor.)						
Moody, Walter S. (See Lemp and Moody.)						
Moody, Walter S., Lynn, assignor to General Electric Company, Boston, Mass. Cooling electric apparatus	516,829	Mar. 20	1816	430	66	1823
Moore, William H., and E. A. Ricell, Buffalo, N. Y. Car-coupling	526,840	Oct. 2	279	67	69	53
Moog, Frederick W., assignor to United States Net and Twine Company, New York, N. Y. Fishing-reel	524,341	Aug. 14	661	161	68	798
Moomy, Joseph G., Erie, Pa. Pneumatic tire	513,617	Jan. 30	3154	{ 774 775 }	{ 66 66 }	{ 728 728 }
Moomy, Joseph G., Erie, Pa. Pneumatic tire	516,830	Mar. 20	1817	431	66	1823
Moomy, Joseph G., Erie, Pa. Pneumatic tire	518,849	Apr. 24	2140	604	67	489
Moomy, Joseph G., Erie, Pa. Pneumatic tire	518,850	Apr. 24	2142	605	67	489
Moomy, Joseph G., and C. Whitehead, Erie, Pa. Mold for forming tire-casings	530,195	Dec. 4	209	52	69	1253
Moon, Edward W. (See Fletcher, Wendell C., assignor.)						
Moon, Hermon, Grove, assignor of two-thirds to J. T. Crill and J. W. Bell, Mercer, Pa. Cutting apparatus for mowing-machines	515,603	Feb. 27	2681	666	66	1402
Moon, Milton J., <i>et al.</i> (See Cox, Charles T., assignor.)						
Moon, Robert G. (See Walker and Moon.)						
Moon, Zenas E., Schuyler, Nebr., assignor to himself, and J. S. Standeford, Council Bluffs, Iowa. Boiler-furnace	523,901	July 31	3008	748	68	623
Moonelis, Adolph, assignor to International Cigarette Machinery Company, New York, N. Y. Machine for cutting cigarette-wrappers	514,236	Feb. 6	450	{ 107 108 }	{ 66 66 }	{ 937 937 }
Moonelis, Adolph, assignor to International Cigarette Machinery Company, New York, N. Y. Cigarette-wrapper-cutting machine	514,237	Feb. 6	453	{ 108 109 }	{ 66 66 }	{ 937 937 }
Moonelis, Adolph, assignor to International Cigarette Machinery Company, New York, N. Y. Cigarette-machine	514,238	Feb. 6	456	{ 109 110 111 }	{ 66 66 66 }	{ 938 938 938 }
Moonelis, Adolph, assignor to International Cigarette Machinery Company, New York, N. Y. Machine for cutting wrappers for cigarettes	514,239	Feb. 6	462	{ 111 112 112 }	{ 66 66 66 }	{ 939 939 939 }
Moonelis, Adolph, assignor to International Cigarette Machinery Company, New York, N. Y. Cigarette-machine	514,240	Feb. 6	464	{ 113 114 115 }	{ 66 66 66 }	{ 940 940 940 }
Mooney, Lawrence F. (See Polis, Horace, assignor.)						
Mooney, Patrick T., Walnut Springs, Tex. Car-door	521,383	June 12	1123	265	67	1416

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Mooney, V. P., <i>et al.</i> (See Smith, Andrew J., assignor.)						
Moore, Alfred H., assignor of one-half to G. Whitlock, Brooklyn, N. Y. Box-pile	520,487	May 29	2700	654	67	1098
Moore, Alfred M., Malden, Mass., assignor to Williams & Moore Manufacturing Company, Portland, Me. Gear-case for bicycles	517,259	Apr. 10	901	226	67	185
Moore, Allen D., Montpelier, Vt. Governor	530,704	Dec. 11	1118	271 272	69	1433
Moore, Benjamin, Chicago, Ill. Bridge-gate	518,111	Apr. 10	1153	291	67	227
Moore Carving Machine Company. (See Barnard, Frederick H., assignor.)						
Moore Carving Machine Company. (See Yarnell, Charles S., assignor.)						
Moore, Charles C., Columbus, Ohio. Metallic ceiling	518,464	Apr. 17	1792	444	67	360
Moore, Charles N., Newhall, Cal. Ore grinder and amalgamator	521,663	June 19	1620	379 380	67	1523
Moore, Charles R., Newport, Vt. Gage-cock	531,593	Dec. 25	2668	641	69	1752
Moore, Chauncey G., assignor of one-half to T. F. Scullin, Indianapolis, Ind. Oil-burner	523,336	Oct. 30	2303	678 679	69	576
Moore, Chester O., and T. J. Fitzsimmons, Fruitland, Iowa. Transplanting-machine	526,406	Sept. 25	1917	455 456	68	1541
Moore, Clarence P., and F. B. McGrew, McKeesport, Pa. Rotary engine	515,350	Feb. 27	2279	565	66	1325
Moore, Clarence W., Peabody, Mass. Last-block fastener	518,509	Apr. 17	1860	461	67	372
Moore, D. W., <i>et al.</i> (See Gordon, Thomas J., assignor.)						
Moore, Edward Y., Milwaukee, Wis. Wheel for door-hangers	515,406	Feb. 27	2371	588	66	1342
Moore, Edward Y., Milwaukee, Wis. Wheel for door-hangers	516,398	Mar. 13	1092	259	66	1671
Moore, Edwin F., Toronto, Canada. Antifriction wheel-hub	520,933	June 5	340	83	67	1259
Moore, Francis A., assignor of one-third to J. J. Robinson, Tyler, Tex. Railway oil-box jack	522,762	July 10	1034	255	68	210
Moore, Frank L., Chatham, N. J. Strap-fastener	522,024	June 26	2277	545 546	67	1662
Moore, Frederick S., Hanford, Cal. Plow	513,335	Jan. 23	2665	646	66	603
Moore, George C., Easthampton, Mass. Machine for making shoes or covers for pneumatic tires	518,112	Apr. 10	1159	291 292	67	228
Moore, George C., Easthampton, Mass. Fabric for bicycle-tires	521,805	June 26	1874	448	67	1587
Moore, George C., Easthampton, Mass. Pneumatic tire	523,365	July 24	2060	518	68	434
Moore, George C., assignor of one-half to J. W. Green, Jr., Easthampton, Mass. Elastic fabric	519,727	May 15	1412	341	67	829
Moore, George F., Kennebunk, Me. Machine for cutting heel-stiffeners	513,242	Jan. 23	2519	607 608	66	575
Moore, George H. (See Ingram and Moore.)						
Moore, George H., Norwich, Conn. Discharging device for filters	523,585	July 24	2440	612	68	502
Moore, George T. (See Steimer and Moore.)						
Moore, Gideon E., New York, N. Y. Manufacturing pigments	518,963	May 1	41	-----	67	544
Moore, Gideon E., New York, N. Y. Manufacturing spiegeleisen	529,458	Nov. 20	1700	-----	69	995
Moore, Gilpin, assignor to Deere & Company, Moline, Ill. Plow	513,408	Jan. 23	2777	679	66	624
Moore, Gladius W., Gardiner, Oreg. Detaching-block	521,293	June 12	961	223	67	1384
Moore, Harrey, Wellingborough, England. Actuating mechanism for sewing-machine shuttles	520,759	May 29	3157	765	67	1182
Moore, Harrey, Wellingborough, England. Wheel for road-vehicles	529,077	Nov. 13	1004	242 243	69	848
Moore, Harry V. (See Kahn and Moore.)						
Moore, Harvey A., assignor of one-half to S. D. Pray, Indianapolis, Ind. Burglar-alarm	519,265	May 1	583	142	67	650
Moore, Horatio N., Savannah, Ga. Pianoforte-action	512,206	Jan. 2	791	192	66	150
Moore, Ira C., <i>et al.</i> (See Miller, John, assignor.)						
Moore, Jacob J., Chambersburg, assignor of one-half to C. E. Rönne, Philadelphia, Pa. Valve-operating mechanism	517,807	Apr. 3	654	164	67	127
Moore, James S., Port Richmond, N. Y. Toy-balloon inflater	529,337	Nov. 13	1451	350	69	931
Moore, James W., Homer, La. Combination planter and cultivator	523,226	July 17	1826	459 460	68	374
Moore, John A., <i>et al.</i> (See Varney, Nathan E., assignor.)						
Moore, John H., <i>et al.</i> (See Shydecker, Eugene, assignor.)						
Moore, John W., Oakland, Ohio. Fence	512,047	Jan. 2	526	124	66	101
Moore, John Y., assignor of two-thirds to W. F. Nicol and T. P. Douglas, Kansas City, Mo. Ironing-board	519,410	May 8	863	209	67	717
Moore, Joseph B., Hemple, Mo. Extension-ladder	515,783	Mar. 6	93	22	66	1471
Moore, Joseph M., Magalia, Cal. Ironing-table	515,869	Mar. 6	218	51	66	1494
Moore, Joseph W., Boston, Mass. Starting and controlling device for electric motors	516,831	Mar. 20	1819	431	66	1823
Moore, Joseph W., Boston, Mass. Starting and controlling device for electric motors	523,586	July 24	2443	612	68	502
Moore, Josiah H., assignor to F. B. Tait, Decatur, Ill. Fastening device for end-gates and scoop-boards	525,111	Aug. 28	1988	486	68	1068
Moore, La Fayette, Cordelo, Ga. Drying-kiln	524,598	Aug. 14	1077	266	68	876
Moore, Lizzie A., Wahoo, Nebr. Compartment vessel or holder	514,483	Feb. 13	856	218	66	1032
Moore, Lucius L., <i>et al.</i> (See Varney, Nathan E., assignor.)						
Moore, Otis M., Hoquiam, Wash. Ink-fountain	512,562	Jan. 9	1385	334	66	274
Moore, Samnel, Providence, R. I. Nut-cracker	522,846	July 10	1153	286	68	233
Moore, Silas H., assignor to himself and A. M. Vernon, New York, N. Y. Gas-governor	521,664	June 19	1622	380	67	1524
Moore, Thomas, assignor of one-half to L. Kabis, Cheyenne, Wyo. Tent	512,890	Jan. 16	1969	467 468	66	400
Moore, Thomas, Brooklyn, N. Y., assignor to Thomas Manufacturing Company, Wilmington, Del. Machine for making pin-tickets	525,351	Sept. 4	47	12 13 14	68	1160
Moore, Thomas B. (See Gallagher and Moore.)						
Moore, Thomas B., assignor of two-thirds to H. and G. F. Gallagher, Rochester, N. Y. Furnace	526,657	Sept. 25	2317	554	68	1615
Moore, Thomas C., Great Falls, Mont. Hair-curler	530,787	Dec. 11	1256	303	69	1459
Moore, Thomas C., assignor of one-half to S. G. Smith, Hannibal, Mo. Harness-rack	516,504	Mar. 13	1273	303	66	1705
Moore, Thomas F., Buffalo, N. Y. Hoisting and conveying apparatus	524,502	Aug. 14	923	229	68	847
Moore, Thomas F., Buffalo, N. Y. Bucket hoisting and conveying apparatus	524,806	Aug. 21	1432	350 351	68	954
Moore, Thomas F., Buffalo, N. Y. Trestle	524,807	Aug. 21	1434	351	68	954
Moore, William H., Owen Sound, and J. Gardiner, Dundalk, Canada; said Moore assignor to said Gardiner. Fire-extinguisher	530,440	Dec. 4	628	156	69	1330
Moore, William J., assignor of one-half to C. A. Houghton, Chicago, Ill. Detachable button	531,466	Dec. 25	2462	586	69	1711
Moore, William K., Cleveland, Ohio. Check-hook	517,121	Mar. 27	2332	549	66	1937
Moore, Penton L., Cincinnati, Ohio. Line-slaker	520,328	May 22	2429	591	67	1032
Moorthouse, Henry, New York, N. Y., assignor to East Coast Manufacturing Company, Jersey City, N. J. Sand-distributor	517,055	Mar. 27	2223	527	66	1915

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Moorhouse, Joseph. (See Ashton and Moorhouse.)						
Moorhouse, Joseph, Shaw, England. Self-acting spinning-mule	514,330	Feb. 6	610	154	66	967
Moran, James, Dublin, Ireland. Fire-escape	516,655	Mar. 20	1538	366	66	1772
Moran, Mary C., Newton, Mass. Garment-fastening	521,384	June 12	1125	265	67	1417
Moran, Michael, assignor to R. T. Blow and V. Moran, St. Louis, Mo. Machine for cleaning cotton or other seeds	522,179	June 26	2535	608	67	1711
Moran, Victoria, <i>et al.</i> (See Moran, Michael, assignor.)						
Moran, William T., Atlantic, Mass. Protector-mask	518,822	Apr. 24	2404	595	67	482
Morarity, John D., Toledo, Ohio. Folding bed	524,858	Aug. 21	1524	373	68	970
Morcom, Alfred. (See Belliss and Morcom.)						
Morden, Robert B. (See Frame and Morden.)						
Morden, Walter H., Toronto, Canada. File	526,726	Oct. 2	93	23	69	20
Moreau, Eugene, Philadelphia, Pa., and H. S. Miner, assignors to Welsbach Light Company, Gloucester City, N. J. Gas-lamp	516,609	Mar. 13	1447	343	66	1738
Moreau, Pierre A., Meung, France. Making artificial marble	525,024	Aug. 28	1825	.....	68	1041
Morehouse, Cyrus E., assignor to Morehouse Manufacturing Company, Milwaukee, Wis. Temporary binder	511,860	Jan. 2	181	45	66	48
Morehouse Manufacturing Company. (See Morehouse, Cyrus E., assignor.)						
Morehouse, Miles A., Wewertown, N. Y. Telephone-transmitter	530,115	Dec. 4	69	19	69	1238
Morel, Frederic H., Dunkerque, France. Slide-valve	524,180	Aug. 7	360	85	68	727
Morell, Miguel, and R. M. Ferrer, Santa Barbara, Cal. Express-car	526,191	Sept. 18	1510	{ 353 354 }	68	1450
Moreno, Eben D. (See Dorr, James W., Sr., assignor.)						
Moret, Jean M., Besançon, France. Gearing	528,641	Nov. 6	220	54, 55	69	686
Morey, Roswell E., Oakland, Cal. Fruit basket and crate	525,112	Aug. 28	1969	486	68	1069
Morefoot, Benjamin W., Chicago, Ill. Die for cutting and shaping can-heads	518,724	Apr. 24	2241	558	67	453
Morfoot, George A., assignor of one-half to J. Koblish, Chicago, Ill. High chair	518,070	Apr. 10	1091	275	67	215
Morford, Charles H., Allentown, Pa. Till lock and alarm	522,692	July 10	882	218	68	186
Morford, James R. R., La Harpe, Ill. Portable folding seat	516,895	Mar. 20	1925	454	66	1244
Morgan, Benjamin F., Strang, Nebr. Adjustable draft for roof and brace measurements...	515,497	Feb. 27	2511	622	66	1368
Morgan, Carlos. (See Clark and Morgan.)						
Morgan, Charles. (See Redlinger and Morgan.)						
Morgan, Charles, <i>et al.</i> (See Redlinger, Michael, assignor.)						
Morgan, Clarence L. (See Grover and Northrop, assignors.)						
Morgan, Doctor F., Akron, Ohio. Hot-water heating boiler	519,132	May 1	342	81	67	604
Morgan, Doctor F., Akron, Ohio. Hot-water heating boiler	519,133	May 1	343	81	67	604
Morgan, E. L., <i>et al.</i> (See Proctor, Charles B., assignor.)						
Morgan, Edgar H., <i>et al.</i> (See Redlinger, Michael, assignor.)						
Morgan, Edgar H., <i>et al.</i> (See Redlinger and Morgan, assignors.)						
Morgan, Frank C., <i>et al.</i> (See Prince, Jerome, assignor.)						
Morgan, Frank J., Kalamazoo, Mich. Tumbling-barrel	512,312	Jan. 9	960	234	66	194
Morgan, Frank J., Kalamazoo, Mich. Culinary-vessel handle	515,351	Feb. 27	2281	565	66	1326
Morgan, Henry W., Rochester, N. Y. Grooving-machine	517,705	Apr. 3	486	{ 116 117 118 }	67	93
Morgan, James B. (See Mohr, Ulrick R., assignor.)						
Morgan, James B., Davenport, Iowa. Sash-fastener	523,227	July 17	1828	460	68	375
Morgan, James M., Port Washington, Wis. Revolving chair	519,866	May 15	1636	398	67	871
Morgan, James M., Port Washington, Wis. Revolving chair	526,045	Sept. 18	1257	291	68	1405
Morgan, John. (See Pratt, John C., assignor.)						
Morgan, John. (See Slater, Jesse F., assignor.)						
Morgan, John R., <i>et al.</i> (See Morgan, Thomas R., Jr., assignor.)						
Morgan, John R., <i>et al.</i> (See Morgan, Thomas R., Sr., and W. H., assignors.)						
Morgan, John R., assignor of three-fourths to T. R. Morgan, Sr., and Jr., and W. H. Morgan, Alliance, Ohio. Overhead traveling crane	522,913	July 10	1262	312	68	254
Morgan, John W., Harriman, Tenn. Transplanter	516,274	Mar. 13	884	{ 207 208 }	66	1634
Morgan, Robert A., Jr., Boston, Mass. Apparatus for transporting mail	517,619	Apr. 3	330	78	67	65
Morgan, Robert W., New York, N. Y. Candle-shade holder	521,726	June 19	1728	410	67	1545
Morgan, Robert W., New York, N. Y. Check-book	521,727	June 19	1729	411	67	1545
Morgan, Thomas, Philadelphia, Pa. Quarter-boat	524,555	Aug. 14	1020	251	68	865
Morgan, Thomas J., Chicago, Ill. Safety-gate for railway-cars	516,505	Mar. 13	1274	{ 303 304 }	66	1706
Morgan, Thomas R., Sr. (See Cuthbert, Alexander, assignor.)						
Morgan, Thomas R., Sr. (See Gordon, William B., assignor.)						
Morgan, Thomas R., Sr., <i>et al.</i> (See Morgan, John R., assignor.)						
Morgan, Thomas R., Jr., assignor of three-fourths to T. R., Sr., W. H., and J. R. Morgan, Alliance, Ohio. Metal-working machine	513,812	Jan. 30	3467	854	66	787
Morgan, Thomas R., Sr., and W. H., assignors of one-half to T. R., Jr., and J. R. Morgan, Alliance, Ohio. Charging-crane	520,488	May 29	2701	654	67	1098
Morgan, Thomas R., Sr., and W. H., assignors of one-half to T. R., Jr., and J. R. Morgan, Alliance, Ohio. Ingot-charging apparatus	520,798	June 5	73	15, 16	67	1210
Morgan, Waitman M., Kansas City, Mo. Suction and force apparatus for pumping fluids...	514,659	Feb. 13	1140	284	66	1086
Morgan, William H. (See Morgan, Thomas R., Sr., and W. H.)						
Morgan, William H., <i>et al.</i> (See Morgan, John R., assignor.)						
Morgan, William H., <i>et al.</i> (See Morgan, Thomas R., Jr., assignor.)						
Morgan, William K., Eureka Springs, Ark. Sash-balance	517,760	Apr. 3	580	143	67	112
Morganfield, August, Ozden, Kans. Clevis	528,009	Oct. 23	2247	542	69	459
Morgel, John C., A. T. Ball, and H. M. Nagel, Brazil, Ind. Broom or brush	513,024	Jan. 16	2183	520	66	438
Morgeneier, Robert, assignor to American Carving and Manufacturing Company, Winona, Minn. Carving-machine	528,337	Oct. 30	2810	{ 679 680 }	69	577
Morin, Hercules A., San Leandro, Cal. Bridle-rod for railways	518,348	Apr. 17	1581	392	67	322
Morin, Joseph H., Wilkinsonville, Mass. Loom-shuttle	525,814	Sept. 11	859	196	68	1320
Morin, Joseph P., and G. J. H. Jacques, Laconia, N. H. Circular-knitting machine	531,553	Dec. 25	2605	{ 623 624 }	69	1739
Morison, Donald B., Hartlepool, England. Steam-boiler or other furnace	518,762	Apr. 24	2303	572	67	464
Morison, Donald B., Hartlepool, England. Water circulating, feeding, and discharging apparatus for steam-boilers	523,915	July 31	3036	{ 755 756 }	68	627
Morison, Donald B., Hartlepool, England. Apparatus for heating liquids by means of steam	529,288	Nov. 13	1367	{ 328 329 }	69	914
Moritz, Carl C., and S. D. Greenwood, Salt Lake City, Utah Ter. Pocket-knife	530,788	Dec. 11	1257	304	69	1450
Mork, Heinrich, Duisburg, Germany. Universal tool	515,498	Feb. 27	2511	622	66	1369
Morlet, Charles, assignor of one-half to P. Nordmann, Geneva, Switzerland. Mainspring-barrel for watches	526,935	Oct. 2	448	110	69	84

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Morley Button Manufacturing Company. (See Bennett, Walter E., assignor.)						
Morley, E. W., <i>et al.</i> (See Anderson, Edwin N., assignor.)						
Morley, Herbert W., Bradford, and T. Holehouse, Chorlton-cum-Hardy, England. Valve-gear for duplex direct-acting engines	516,896	Mar. 20	1926	{ 454 455 }	66	1844
Morral, Samuel E., Morral, Ohio. Green-corn cutter	516,399	Mar. 13	1093	260	66	1671
Morrell, John A., Kansas City, Mo. Portable sawing-machine	524,644	Aug. 14	1161	286	68	892
Morrell, W. G., <i>et al.</i> (See Warrant, Constantine B., assignor.)						
Morrill, Ernest L., Saco, Me., assignor to G. Draper & Sous, Hopedale, Mass. Yarn-separator for ring-spinning machines	531,548	Dec. 25	2595	621	69	1737
Morrill, Osgood. (See Wells, Harlan P., assignor.)						
Morrill, Simon S., Stockton, Cal. Machine for sharpening plowshares	513,811	Jan. 30	3466	{ 853 854 }	66	786
Morris, Arthur, Rockefeller, Ill. Buckle	518,113	Apr. 10	1164	292	67	228
Morris Box Lid Company. (See French, Philo N., assignor.)						
Morris, Charles W., and L. Goodwin, Boston, Mass.; said Goodwin assignor to said Morris. Smoke-consuming apparatus	526,085	Sept. 18	1330	309	68	1418
Morris, Edmund. (See Morris, Henry B. and E.)						
Morris, Edward J., Philadelphia, Pa. Toboggan-slide	522,025	June 26	2278	546	67	1662
Morris, Francis S., <i>et al.</i> (See Dixon, George, assignor.)						
Morris, Frank, Alliance, Ohio. Molder's flask	526,113	Sept. 18	1376	321	68	1426
Morris, George L. (See Williams and Morris.)						
Morris, George T., Guttenberg, N. J. Freight-car	512,734	Jan. 16	1658	398	66	340
Morris, George T., Guttenberg, N. J. Dumping-car	525,741	Sept. 11	732	169	68	1297
Morris, Henry B., assignor to Ford, Johnson & Co., Michigan City, Ind. Machine for scarfing ends of cane strips for splicing	517,876	Apr. 10	749	188	67	159
Morris, Henry B. and E., assignors to Ford, Johnson & Co., Michigan City, Ind. Diagonal-cane-weaving machine	522,740	July 10	978	{ 244 245 246 }	68	201
Morris, James W., Pleasant Valley, N. J. Oil-burning apparatus	523,675	July 31	2606	{ 649 650 }	68	549
Morris, John H. (See Ward and Morris.)						
Morris, John H., Maquoketa, Iowa. Gate	520,533	May 29	2772	670	67	1111
Morris, John P., Burdett, N. C. Post or pole hole machine	515,245	Feb. 20	2086	518	66	1276
Morris, Joseph I., Camden, N. J. Canal-towage	521,527	June 19	1396	323	67	1482
Morris, Mark B., Logansport, Ind. Animal-trap	522,165	June 26	2511	603	67	1707
Morris, Norman K., and J. W. Bailey, Denver, Colo. Apparatus for the production of white lead	513,130	Jan. 23	2340	564	66	539
Morris, Thomas, Brooklyn, assignor to J. Berbecker & Co., New York, N. Y. Swivel-bracket for rods	517,620	Apr. 3	335	79	67	65
Morris, William B., Seattle, Wash. Spring gun or catapult	513,590	Jan. 30	3109	764	66	720
Morris, William B., assignor to E. I. Upham and W. Emington, Collinsville, Cal. Sulkyp-low axle	520,934	June 5	341	83	67	1259
Morrison, Charles, Shelbyville, Ind. Type-writer cabinet	524,599	Aug. 14	1078	267	68	876
Morrison, D. Henry. (See Abbott, Levi, assignor.)						
Morrison, J. Frank. (See Honck and Browning, assignors.)						
Morrison, James, Toronto, Canada. Injector	514,093	Feb. 6	168	43	66	889
Morrison, James F. (See Houck, Thomas J., assignor.)						
Morrison, James F. (See Winter, John F., assignor.)						
Morrison, James H. (See Hanson, Castle, and Morrison.)						
Morrison, James J., New York, N. Y. Needle-case	524,600	Aug. 14	1080	267	68	877
Morrison, John H., assignor to Atwood, Crawford Company, Pawtucket, R. I. Sawing-machine	519,192	May 1	451	110	67	624
Morrison, Reason R., Mineral Point, Ohio. Recuperative tank-furnace	518,851	Apr. 24	2443	605	67	489
Morrison, Robert B., Rome, Ga. Brick-kiln furnace	512,891	Jan. 16	1972	468	66	400
Morrison, Thomas, Duquesne, Pa. Automatic stop for rolling-mills	512,207	Jan. 2	792	192	66	150
Morrison, Thomas, Duquesne, Pa. Edging-guide for rolling-mills	520,935	June 5	342	83	67	1259
Morrison, Thomas, Duquesne, Pa. Rolling metal	522,763	July 10	1035	256	68	211
Morrison, Walter, and W. H. Purser, Moonee Ponds, near Melbourne, Victoria. Heel	518,266	Apr. 17	1433	{ 358 359 }	67	294
Morrison, Walter G., <i>et al.</i> (See Duffy, Joseph, assignor.)						
Morrison, Warren C., Chicago, Ill. Advertising-sign device	528,256	Oct. 30	2678	646	69	554
Morrison, William, Toronto, Canada. Water heater or cooler	531,000	Dec. 18	1606	381	69	1537
Morrison, William, Des Moines, Iowa, assignor to American Battery Company, Chicago, Ill. Electrode for secondary batteries	512,514	Jan. 9	1318	318	66	261
Morrison, William, Des Moines, Iowa, assignor to American Battery Company, Chicago, Ill. Electrode for secondary batteries	522,479	July 3	520	132	68	103
Morrison, William E. (See Hamilton and Morrison.)						
Morrison, William J., Chicago, Ill. Combination tool-handle	528,731	Nov. 6	360	88	69	712
Morrison, William N., St. Louis, Mo. Automatic door-strip	527,212	Oct. 9	869	211	69	177
Morriss, William N., Moonee Ponds, and R. H. Smith, South Yarra, Victoria. Feed-water heater and fuel-saver	526,727	Oct. 2	95	24	69	20
Morrissey, John H. (See May and Morrissey.)						
Morrow, Alexander P., New Brighton, assignor to Eclipse Bicycle Company, Beaver Falls, Pa. Bicycle-saddle	524,068	Aug. 7	167	38	68	692
Morrow, George, Salt Lake City, Utah Ter. Street-sweeper	521,665	June 19	1623	{ 380 381 }	67	1524
Morrow, George W., assignor of three-fourths to C. T. Young, Toronto, Ohio. Tile	527,871	Oct. 23	1977	475	69	410
Morse, Arthur M. (See Plummer, William S., assignor.)						
Morse, George J., Hyde Park, Mass. Trousers or coat	528,178	Oct. 30	2535	614	69	528
Morse, J. W., <i>et al.</i> (See Lindstrom, Carl E., assignor.)						
Morse, Jamin S., and D. R. Lovejoy, New York, N. Y.; said Lovejoy assignor to said Morse. Employee's time-recorder	527,395	Oct. 9	1180	{ 289 290 }	69	234
Morse, Orville M., Jackson, Mich. Separating-machine	514,016	Feb. 6	63	15, 16	66	866
Morse, Orville M., Jackson, Mich. Separator	529,872	Nov. 27	2388	571	69	1132
Morse, Oscar E., Dillon, Mont. Rotary engine	529,289	Nov. 13	1369	329	69	914
Morse & Son, Andrew J. (See Crawford, William K., assignor.)						
Morse, Williams & Company. (See Hill, William, assignor.)						
Morstadt, Karl, Prague, Austria-Hungary, assignor to J. M. Grosvenor & Co., Boston, Mass. Capsule-closer	514,842	Feb. 13	1445	364	66	1144
Mortensen, Hans, Leadville, Colo. Pump	525,714	Sept. 11	686	159	68	1289
Mortenson, Charles G., Lorin, Cal. Garden implement	529,562	Nov. 20	1881	447	69	1027
Morthland, George W., Lead, S. D. Rotary engine	518,465	Apr. 17	1793	{ 444 445 }	67	361
Mortimer, Charles J., New York, N. Y. Railway-switch	517,877	Apr. 10	752	188	67	159

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Morton, Albert H., assignor to Kitson Machine Company, Lowell, Mass. Safety stop mechanism for lap-machines.	518,007	Apr. 10	990	247	67	199
Morton, Albert H., assignor to Kitson Machine Company, Lowell, Mass. Fiber-feeding machine.	518,419	Apr. 17	1706	{ 424 425 }	67	345
Morton, James C., Washington, N. C., and E. B. Freeman, Norfolk, Va. Combined fire extinguisher and alarm.	516,939	Mar. 20	2000	471	66	1857
Morton, James F., assignor of one-half to W. H. H. Anderson and N. S. Hill, Jr., Baltimore, Md. Wheel guard or fender for cars.	519,289	May 1	626	{ 152 153 }	67	658
Morton, Jefferson W., et al. (See Prosser, Daniel F., assignor.)						
Morton, Rufus J., North Danville, assignor of one-half to J. W. Bruce, Danville, Va. Bag and twine holder.	519,001	May 1	103	25	67	555
Morton, Samuel D., Heber, Ark. Animal-trap.	524,425	Aug. 14	808	197	68	826
Morton, Thomas, Birmingham, England. Cover for tobacco-pipe bowls.	521,173	June 12	752	176	67	1347
Morton, William F., New Haven, Conn. Wheel-felly joint.	529,131	Nov. 13	1090	263	69	865
Moscicki, Kajetan, Warsaw, Russia. Engine.	523,128	July 17	1655	{ 413 415 }	68	344
Moseley, Charles S., assignor to Dubuque Specialty Machine Works, Dubuque, Iowa. Protector for endless-chain-cutter mortising-machines.	524,045	Aug. 7	123	28	68	685
Moseley, William H., Sparta, Wis. Clothes-drier.	527,705	Oct. 16	1690	407	69	342
Mosely, Jeremiah T., Shelbyville, Tex. Felly for wheels.	521,385	June 12	1125	265	67	1417
Mosely, Thomas C. (See Kingman and Mosely.)						
Moses, Alfred H., Jr., New York, N. Y. Electric-arc lamp.	528,642	Nov. 6	221	55	69	686
Moses, Alfred H., Jr., St. Louis, Mo., assignor of one-half to J. S. Bache & Co., New York, N. Y. Electric-arc lamp.	527,559	Oct. 16	1450	353	69	298
Moses, R. H., et al. (See Wright, Isaac D., assignor.)						
Moses, William E., et al. (See Wallace, Charles, assignor.)						
Mosher, Charles D., New York, N. Y. Steam boiler or generator.	515,784	Mar. 6	94	22	66	1471
Mosher, Charles D., New York, N. Y. Boiler or steam-generator.	524,391	Aug. 14	749	{ 182 183 }	68	815
Mosher, Charles D., New York, N. Y. Boiler or steam-generator.	525,856	Sept. 11	947	212	68	1336
Mosher, Charles P. (See Streeter and Mosher.)						
Mosher, Horace C., et al. (See Thompson, Wilson, assignor.)						
Mosher, James A. (See Learned and Mosher.)						
Mosher, James A., Boston, Mass., William N. Beardsley, and A. D. Moulton, Bridgeport, Conn., assignors to M. Hartley and M. Graham, New York, N. Y. Cyclometer.	531,269	Dec. 18	2098	504	69	1626
Mosher, Samuel E. (See Fuchs, Oscar J., assignor.)						
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company. System of lighting and heating cars by electricity.	525,992	Sept. 11	1166	{ 265 266 }	68	1376
Moskowitz, Morris, Newark, N. J., assignor to National Electric Car Lighting Company. Means for equalizing electromotive force of dynamos.	525,993	Sept. 11	1170	{ 266 267 }	68	1376
Moskowitz, Morris, assignor to himself and L. D. Adler, Newark, N. J., and A. S. Adler, Philadelphia, Pa. Electric-lighting system for railway-cars.	531,421	Dec. 25	2369	567	69	1694
Mosman, Charles F., assignor of one-half to A. Krouse, Bridgeport, Conn. Coffin-handle.	524,786	Aug. 21	1399	341	68	948
Moss, Charles E., Boston, Mass. Cyclometer.	531,207	Dec. 18	1986	472	69	1606
Moss, Henry E., Kansas City, Mo. Self-closing telegraph-key.	511,787	Jan. 2	70	18	66	16
Moss, James H., Irona, Pa. Hanging lamp.	527,440	Oct. 16	1254	308	69	260
Moss, Marvin R., Huntsburg, Ohio. Sap-spout extractor.	513,591	Jan. 30	3110	765	66	721
Mossberg, Frank, Attleborough, Mass. Screw-press.	519,267	May 15	1638	398	67	872
Mossberg, Frank, Attleborough, Mass. Roller-bearing.	519,868	May 15	1639	399	67	872
Mossberg, Frank, Attleborough, Mass. Machine for making rings.	525,961	Sept. 11	1124	{ 255 256 }	68	1368
Mossop, Isaac, Wiconisco, Pa. Hosiery-cutting apparatus.	517,706	Apr. 3	495	118	67	95
Mossop, John J. (See Geary, John J., assignor.)						
Mesure, Franklin W., Vera Cruz, and I. Warner, Linn Grove, Ind. Post-hole auger.	526,454	Sept. 25	2004	477	68	1557
Mott, Abram C., Philadelphia, Pa. Combined hot-air and hot-water heater.	516,059	Mar. 6	532	{ 123 124 }	66	1551
Mott, Abram C., Philadelphia, Pa. Hot-water furnace.	516,102	Mar. 6	538	138	66	1562
Mott, Daniel, Fairplain, Pa. Wheel-cultivator.	525,054	Aug. 28	1887	462	68	1051
Mott, George E. (See Price, William G., assignor.)						
Mott, Theodore. (See Andrews and Mott.)						
Motter, Jacob V., Brooklyn, N. Y. Automatic feeder to prevent scale.	525,504	Sept. 4	306	75	68	1208
Mottinger, Noah W., Akron, Ohio. Sash-fastener.	525,663	Sept. 4	577	138	68	1257
Motts, Eli L., et al. (See Barr, Samuel D., assignor.)						
Monat, Laurence, Jr., Chicago, Ill. Spring-hinge.	522,612	July 10	759	{ 191 192 }	68	163
Moulton, Alvin D. (See Mosher, Beardsley, and Moulton.)						
Moulton, Alvin D., Bridgeport, Conn. Bicycle-stand.	516,571	Mar. 13	1387	330	66	1727
Moulton, James N., Haverhill, assignor to Stanley Manufacturing Company, Boston, Mass. Sole-rounding machine.	522,166	June 26	2513	{ 603 604 }	67	1707
Moulton, Luther V. (See McCay and Moulton.)						
Mounce, James A., and D. L. Delaney, Fredericktown, Mo. Automatic vehicle-brake.	528,605	Nov. 6	142	35	69	672
Mount Washington Glass Company. (See Steffin, Albert, assignor.)						
Mountain, Albert D., Philadelphia, Pa. Toy or trick device.	515,439	Feb. 27	2426	601	66	1353
Mountain, Benjamin, Castleford, England. Making wire.	514,766	Feb. 13	1321	{ 329 330 }	66	1120
Mouquin, Henri F., trustee. (See Lorient, Henry, assignor.)						
Monrot, Julien, Modeste, Cal. Voting-machine.	530,347	Dec. 4	481	{ 119 120 }	69	1302
Mowat, Oliver M., Detroit, Mich. Pulley-block.	522,078	June 26	2361	568	67	1679
Mowder, Isaac, Akron, assignor of one-half to T. H. Mowder, Youngstown, Ohio. Sanding device for cars.	519,818	May 15	1555	381	67	856
Mowder, Thomas H. (See Mowder, Isaac, assignor.)						
Mower, J. K. (See Anderson, Con D., assignor.)						
Mower, Oliver N. (See Fitzgerald, William, assignor.)						
Mowry, Harley W., assignor to W. H. Cooper, Minneapolis, Minn. Compo board.	513,710	Jan. 30	3320	820	66	753
Mowry, Harley W., assignor to W. H. Cooper, Minneapolis, Minn. Compo board.	516,572	Mar. 13	1388	330	66	1727
Mowry, Levi G., Buffalo, N. Y. Trolley-catcher.	517,166	Mar. 27	2408	567	66	1952
Moxham, Arthur J., Johnstown, Pa. Railway-rail joint.	513,711	Jan. 30	3322	820	66	758
Moxham, Arthur J., Johnstown, Pa. Combined chair and cross-tie for railway-rails in track.	513,712	Jan. 30	3322	{ 820 821 }	66	759
Moxham, Arthur J., Johnstown, Pa. Machine for straightening rails or other metal bars.	518,197	Apr. 10	1314	329	67	257
Moxham, Arthur J., Johnstown, Pa. Making chairs for railway-rails.	520,654	May 29	2686	717	67	1147
Moxham, Arthur J., Johnstown, Pa. Tongue-switch.	520,694	May 29	3053	740	67	1163

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Moxham, Arthur J., Johnstown, Pa. Railway-cross.....	526,455	Sept. 25	2005	477	68	1557
Moxham, Arthur J., Johnstown, Pa. Machine for bending flanged metal bars.....	530,196	Dec. 4	210	52	69	1251
Moxham, Arthur J., Johnstown, Pa. Railway-crossing.....	530,197	Dec. 4	211	53	69	1254
Moxham, Arthur J., Johnstown, Pa. Railway-rail.....	531,444	Dec. 25	2428	577 578	69	1705
Moxham, Arthur J., Johnstown, Pa. Electrical connection for railway-rails.....	531,445	Dec. 25	2430	578	69	1706
Moxham, Arthur J., Johnstown, Pa. Railway-track.....	531,446	Dec. 25	2431	578	69	1706
Moxley, Richard J., New Haven, Conn. Saw-frame.....	518,420	Apr. 17	1708	425	67	345
Moyer, Charles O., <i>et al.</i> (See Platt, Edward T., assignor.)						
Moyer, William H., <i>et al.</i> (See Harris, Henry, assignor.)						
Moyers, James M. (See Bragg and Moyers.)						
Moyes, Laurie M., Philadelphia, Pa. Water-tube boiler.....	524,724	Aug. 21	1298	318	68	929
Moyle, James W. (See Murray, Archibald B., assignor.)						
Moyle, Leigh, assignor to M. M. Buck & Co., St. Louis, Mo. Curtain-stop.....	530,896	Dec. 11	1423	338	69	1490
Muchall, Carl W., Wiesbaden, assignor to Deutsche Gasglühlicht-Actiengesellschaft, Berlin, Germany. Gas-lighting device.....	524,449	Aug. 14	847	208	68	834
Muchmore, John F., <i>et al.</i> (See Rogginger, John, assignor.)						
Muchmore, Oramel J., <i>et al.</i> (See Brown, Alford A., assignor.)						
Muckenbirt, Charles H., Detroit, assignor to F. P. Boughton, Battle Creek, Mich. Combined lavatory-basin plug and overflow.....	527,802	Oct. 23	1854	446	69	389
Mudford, Robert S., Texarkana, Ark. Gin-saw-filing machine.....	520,966	June 5	384	94	67	1267
Mudge, Daniel A. (See Treiber, Theodore R., assignor.)						
Muehlfeith, Robert B., and C. J. Ibel, Fort Wayne, Ind. Joint for railway-rails.....	515,785	Mar. 6	96	22	66	1472
Mueller, Albert, Nieder-Schönweide, near Berlin, Germany. Buffer-valve for high-pressure gases and fluids.....	531,053	Dec. 18	1701	404	69	1555
Mueller, Albert C., and A. Lieb, Allegheny, Pa. Pipe-cleaning apparatus.....	528,234	Oct. 30	2641	636	69	546
Mueller, Fred B., Decatur, Ill. Bicycle-stand.....	518,325	Apr. 17	1534	382	67	312
Mueller, Henry, <i>et al.</i> (See Walls, William H., assignor.)						
Mueller, Henry, Decatur, Ill. Stop and waste cock.....	513,272	Jan. 23	2575	623	66	586
Mueller, Henry, Jr., St. Louis, Mo. Street-sweeper.....	525,815	Sept. 11	860	196 197	68	1321
Mueller, Henry, Jr., St. Louis, Mo. Street-sweeper.....	528,548	Nov. 6	42	11	69	654
Mueller, Henry, Jr., St. Louis, Mo. Street-sweeper.....	529,132	Nov. 13	1091	263 264	69	865
Mueller, Hieronymus, Decatur, Ill. Basin-clamp.....	515,836	Mar. 6	166	40	66	1484
Mueller, John. (See Schumacher, Hermann G., assignor.)						
Mueller, John P., Philadelphia, Pa. Pedal attachment for pianofortes.....	514,724	Feb. 13	1258	313	66	1108
Muenter, Charles L. (See Bowen, George A., assignor.)						
Mühlberg, Hugo, Leipsic, Germany. Self-closing roller-top for transport-wagons.....	526,324	Sept. 18	1740	411 412	68	1496
Muhlenbeck, Frank. (See Asam and Muhlenbeck.)						
Muhlert, Franz, Pelc Tyrolka, near Prague, assignor to Kinzberger & Co., Prague, Austria-Hungary. Manufacture of yellow and orange dye.....	528,965	Nov. 13	820	.....	69	816
Muir, Daniel H., Lincoln, Neb. Shoe-buttoner.....	518,619	Apr. 24	2042	508	67	419
Muir, James, assignor to Phenix Iron Foundry, Providence, R. I. Cloth-stretching machine.....	527,441	Oct. 16	1255	308	69	260
Muir, Robert, Brooklyn, N. Y. Overhead trolley-conductor.....	520,329	May 22	2429	591	67	1032
Mulford, Charles. (See Butts, William, assignor.)						
Mulford, William H. H., Streator, Ill. Folding crate.....	523,366	July 24	2063	518 519	68	434
Mulkey, John H. (See Crow and Mulkey.)						
Mullaly, John, New York, N. Y. Preparing surface-printing plates.....	522,719	July 10	931	.....	68	194
Mullaney, Patrick J., assignor of two-thirds to J. F. McHugh and M. F. Grady, Lafayette, Ind. Hydrocarbon-burner.....	515,837	Mar. 6	167	41	66	1484
Mullen, C. A. (See Wilson, James, assignor.)						
Mullen, Gregory M., Baltimore, Md. Heating feed-water.....	513,409	Jan. 23	2779	679	66	624
Mullen, Gregory M., Baltimore, Md. Rope-clamp.....	529,933	Nov. 27	2485	599	69	1148
Mullen, James, Providence, R. I. Horse-collar.....	519,585	May 8	1174	282	67	773
Müller, Adelbert O., and A. Giesen, Fremont, Nebr. Apparatus for pasteurizing and rack- ing off beer.....	519,193	May 1	452	111	67	624
Müller, August, Magdeburg, Germany. Apparatus for conveying and automatically de- livering small articles.....	520,006	May 15	1860	454 455	67	912
Müller, August, and L. Schulz, Albany, N. Y. Stretching-block.....	523,541	July 24	2373	595 596	68	489
Müller, Bernhard, Chemnitz, Germany. Making bricks from coal-dust.....	526,936	Oct. 2	449	.....	69	84
Müller, Carl, Eberswalde, Germany. Drawing-pin.....	529,744	Nov. 27	2173	518	69	1090
Müller, Carl L., assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Orange disazo dye.....	524,261	Aug. 7	491	.....	68	750
Müller, Carl L., assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Orange dye.....	524,262	Aug. 7	492	.....	68	750
Müller, Carl O., Basle, Switzerland, assignor to Basle Chemical Works Bindschedler. Blue tetrazo dye.....	524,069	Aug. 7	167	.....	68	693
Müller, Carl O., Basle, Switzerland, assignor to Basle Chemical Works Bindschedler. Blue tetrazo dye.....	524,070	Aug. 7	169	.....	68	693
Muller, Carrie E., San Francisco, Cal. Bedclothes-holder.....	527,872	Oct. 23	1979	476	69	411
Müller, Charles L. F., deceased; C. B. Carstens, administrator, Milwaukee, Wis., assignor to Wisconsin Electric Light and Power Company, of Wisconsin. Regulator for dynamo- electric machines.....	518,349	Apr. 17	1585	392 393	67	322
Müller, Emanuel H., Rübinitz, Germany. Cash recorder and indicator.....	523,540	July 24	2371	595	68	489
Muller, Ernst J., Butte, Mont. Universal adjustable bearing.....	524,725	Aug. 21	1300	318 319	68	929
Muller, Etienne, <i>et al.</i> (See Coleman and Saussure, assignors.)						
Müller, Georg, Kaufbeuren, Germany. Apparatus for automatically mixing fire-extin- guishing substances with water.....	528,441	Oct. 30	2989	722	69	608
Müller, Gustav, Zerbst, Germany. Producing sterilized butter.....	523,587	July 24	2446	612	68	503
Müller, Heinrich, Villencolonia Grunewald, near Berlin, assignor to A. Klönne, Dort- mund, Germany. Gas-holder.....	530,284	Dec. 4	371	91	69	1283
Müller, Henry, Stockton, Cal. Piano.....	512,048	Jan. 2	528	124	66	101
Müller, Hermann, Nuremberg, Germany. Switch for secondary batteries.....	516,379	Mar. 13	1063	252 253	66	1666
Müller-Jacobs, Armand. (See Sachs and Müller-Jacobs.)						
Muller, John D., New York, N. Y. Screw-propeller.....	525,664	Sept. 4	578	138	68	1257
Müller, Rudolf, assignor to M. Berendt, M. D. Droege, E. Hadenfeldt, and J. Semler, Ham- burg, Germany. Boiler and furnace.....	520,569	May 29	2835	684	67	1123

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Müller, Teile H., Philadelphia, Pa. Furnace-grate	512,735	Jan. 16	1659	{ 398 399 }	66	340
Müller, Traugott J., Dresden, Germany. Zither-accordion	523,002	July 31	3010	743	68	623
Mullican, Andrew J., Philadelphia, Pa. Hat-pin	522,080	June 26	2365	569	67	1679
Mulligan, John J., Vicksburg, Miss. Freight-car door	513,336	Jan. 23	2666	646	66	603
Mullikin, Levin H., Trappe, Md. Sash-cord fastener	521,806	June 26	1875	449	67	1583
Mullin, Scott M., and S. C. Green, Liberty, Ind. Gas apparatus	516,573	Mar. 13	1390	{ 330 331 }	66	1727
Mullinix, Elmer E., Burlington, Kans. Finger-board telegraph-key	520,957	Dec. 18	1530	363	69	1524
Mullins, John W., Fariston, and R. M. Jackson, London, Ky. Thill-coupling	530,441	Dec. 4	629	157	69	1330
Mullins, William H., Salom, Ohio. Metallic roofing	520,370	May 22	2506	607	67	1047
Mullins, William H., Salom, Ohio. Metallic roofing	520,371	May 22	2508	607	67	1048
Multi-Stroke Bell Company. (See Garside, Irad L., assignor.)						
Mumbraner, Wilhelm, New York, N. Y. Merry-go-round	515,088	Feb. 20	1823	460	66	1298
Mummery, Edwin G., Detroit, Mich. Oil-stove and burner	513,713	Jan. 30	3324	821	66	759
Mummery, Edwin G., Detroit, Mich. Vapor-burner	550,705	Dec. 11	1119	272	69	1433
Mummery, Edwin G., Detroit, Mich. Oil-stove	530,849	Dec. 11	1349	322	69	1476
Mummery, Edwin G., assignor of one-third to J. S. Sherman and G. H. Harms, Detroit, Mich. Hydrocarbon-burner	516,872	Mar. 20	1886	446	66	1837
Muncester, Otho M., Washington, D. C. Bait-bucket	521,244	June 12	871	206	67	1368
Münchhausen, Werner von. (See Cron and Münchhausen.)						
Mundell, Addison M., Paola, Kans. Vegetable-parer	519,890	May 15	1676	408	67	879
Mundell, James. (See Mills, Francis A., assignor.)						
Mundell, James. (See Schmiedl, Anton I., assignor.)						
Mundry, Peter, and H. Pontier, Delta, Colo. Trunk-strap fastener	519,505	May 8	1020	247	67	745
Mundt, Laura. (See Mundt, Wilhelm, assignor.)						
Mundt, Wilhelm, assignor to L. Mundt, New York, N. Y. Spool-holder for braiding-machines	520,655	May 29	2966	718	67	1148
Mundy, Judson T., Newark, N. J. Pencil-sharpener and point-protector	530,729	Dec. 11	1258	301	69	1460
Munger, George, East River, Conn. Stop-cock	512,892	Jan. 16	1973	469	66	401
Munger, Theodore C., Cedar Rapids, Iowa. Pump-valve	530,442	Dec. 4	630	157	69	1330
Munhall, Peter J., assignor of one-half to W. A. Ramage, Auburn, N. Y. Fire-escape	523,916	July 31	3039	756	68	628
Munk, Henry. (See Reiff and Munk.)						
Munro, Charles S. (See Palmer and Munro.)						
Munro, Emma A. (See Cummins and Munro.)						
Munro, William J., J. Hart, and D. Batey, Sedro, Wash. Shingle bunch and binder	513,813	Jan. 30	3469	854	66	787
Munroe, Cirthbert C., et al. (See Fisher, John E., assignor.)						
Munson, Albert L., New York, N. Y. Continuous-cigarette machine	526,192	Sept. 18	1511	{ 354 355 }	68	1451
Munson, Daniel, Syracuse, N. Y. Hot-water boiler	523,860	July 31	2942	{ 733 734 }	68	610
Munson, Edward H., New Britain, Conn. Connector for electric wires	513,949	Jan. 30	3678	906	66	928
Murbarger, William E., Indianapolis, Ind. Combined umbrella tie and name-plate	514,565	Feb. 13	982	249	66	1056
Murbarger, William E., Indianapolis, Ind. Combined shaft-support and thill-coupling	518,763	Apr. 24	2304	572	67	465
Murby, Edward, St. Louis, Mo. Machine for making looped fabric	521,728	June 19	1730	411	67	1545
Murch, John H. (See Gray and Murch.)						
Murdie, John, North Topeka, Kans. Combined lock and latch	526,456	Sept. 25	2006	478	68	1557
Murdoch, Michael J., Youngstown, Ohio. Reverberatory furnace	525,113	Aug. 28	1990	487	68	1069
Murdoch, Frank. (See Stratton and Murdoch.) (Reissue.)						
Murdoch, Harvey W., assignor of two-thirds to M. R. Stewart and S. H. Abbott, Ogden, Utah Ter. Gold-washer	519,506	May 8	1021	247	67	745
Murdoch, James, Jr., Cincinnati, Ohio. String-winding mechanism for musical instruments	516,545	Mar. 13	1341	320	66	1718
Murdoch, Samuel N. (See Kizer and Murdoch.)						
Murgitroyd, Smith N., assignor to Phoenix Hot Water Heater Company, Phoenix, N. Y. Hot-water heating apparatus	522,226	July 3	88	20	68	18
Murguiondo, Prudencio de, assignor of one-half to E. Kenney, Baltimore, Md. Disinfecting device	522,847	July 10	1154	286	68	234
Murless, Herbert B., Rockville, Conn. Column for buildings	512,049	Jan. 2	530	125	66	101
Murphy, Daniel H., Hartford, Conn. Commode. (Reissue.)	11,410	Mar. 27	9373	673	66	2044
Murphy, Dennis J., and J. Richardson, Mountain View, Cal. Baling-press	517,930	Apr. 10	841	211	67	176
Murphy, Edward, New York, N. Y. Sewing-machine	525,227	Aug. 28	2178	532	68	1102
Murphy, Edward E., Madison, Wis. Combination folding bed	517,357	Mar. 27	2721	639	66	2014
Murphy, Edward E., assignor of one-half to G. S. Foster, Boston, Mass. Apparatus for extracting residual substances from casks	529,338	Nov. 13	1452	350	69	931
Murphy, Edwin J., New York, N. Y. Electric arc lamp	531,422	Dec. 25	2371	567	69	1695
Murphy, Frank J., assignor of one-half to F. W. Hudson, Danbury, Conn. Machine for stiffening hat-brims	519,194	May 1	453	111	67	625
Murphy, Frank J., assignor of one-half to A. M. Rundle, Danbury, Conn. Machine for stiffening hat-crowns	519,195	May 1	455	112	67	625
Murphy, Harry. (See Garton, George, assignor.)						
Murphy, James, et al. (See Finley, James H., assignor.)						
Murphy, James A., assignor of one-half to G. Nightingale, Holyoke, Mass. Toy	530,116	Dec. 4	71	20	69	1228
Murphy, John. (See Mitchell and Murphy.)						
Murphy, John. (See Walker and Murphy.)						
Murphy, John, Brooklyn, N. Y. Packing	513,273	Jan. 23	2576	623	66	286
Murphy, John, Brooklyn, N. Y. Packing	516,874	Mar. 20	1829	446	66	1838
Murphy, John M., Danbury, Conn. Clothes-line pulley	515,714	Feb. 27	2867	714	66	1438
Murphy, John Z., assignor of one-half to F. W. Hudson, Chicago, Ill. Cable-replacer	519,586	May 8	1174	282	67	773
Murphy, Livy D., Independence, assignor of one-half to J. P. Knoche, Kansas City, Mo. Car-coupling	513,131	Jan. 23	2342	564	66	540
Murphy, Peter D., and E. Kolb, Lockport, N. Y. Sprocket-wheel	527,153	Oct. 9	740	190	69	160
Murphy, Thomas, Detroit, Mich. Steam-boiler	520,916	June 5	342	84	67	1259
Murphy, Timothy C., Dubuque, Iowa. Window or door screen	516,873	Mar. 20	1888	446	66	1537
Murphy, Walter P., Ridgway, Pa. Dry-kiln	515,604	Feb. 27	2682	{ 666 667 }	66	1403
Murphy, Walter P., Ridgway, Pa. Lumber-drying kiln	531,325	Dec. 25	2203	{ 527 528 }	69	1663
Murphy, William M., Putnam, Conn. Plumber's blowpipe	518,674	Apr. 24	2144	536	67	437
Murray, Archibald B., San Rafael, assignor of one-half to J. W. Moyle, San Francisco, Cal. Electric danger-signal for railways	524,947	Aug. 21	1669	{ 408 409 }	68	995
Murray, Charles, assignor to T. Lawson, St. Louis, Mo. Smokeless furnace	526,193	Sept. 18	1518	356	68	1451
Murray, Charles H. (See Noble and Murray.)						
Murray, George W., Sumter, S. C. Combined furrow-opener and stalk-knocker	517,960	Apr. 10	904	226	67	185

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Murray, George W., Sumter, S. C. Planter.....	520,887	June 5	245	57, 58	67	1242
Murray, George W., Rembert, S. C. Cultivator and marker	517,961	Apr. 10	906	{ 226 227 }	67	186
Murray, George W., Rembert, S. C. Cotton-chopper	520,888	June 5	247	58	67	1242
Murray, George W., Rembert, S. C. Fertilizer-distributor	520,889	June 5	248	58, 59	67	1242
Murray, George W., Rembert, S. C. Planter	520,890	June 5	251	59	67	1243
Murray, George W., Rembert, S. C. Combined cotton-seed planter and fertilizer-distrib- uter	520,891	June 5	253	59, 60	67	1243
Murray, George W., Rembert, S. C. Reaper.....	520,892	June 5	255	60	67	1244
Murray, Henry C. (See Froman and Murray.)						
Murray, James, Baldwin, Kans. Air-cooling apparatus	512,987	Jan. 16	2127	505	66	428
Murray, James H. (See Hill, George S., assignor.)						
Murray, John A., Winchester, Mass. Fruit-huller	528,257	Oct. 30	2679	646	69	555
Murray, John W., Jenison, Mich. Automatic switch-stand	517,878	Apr. 10	753	189	67	160
Murray, Joseph T., New York, N. Y. Lamp-wick	519,795	May 15	1525	371	67	850
Murray, Robert S., and F. W. Eames, London, England; said Eames assignor to said Mur- ray. Machine for dropping liquid material into molds	524,263	Aug. 7	493	114	68	750
Murray, Robert T. (See Allen, Charles M., assignor.)						
Murray, Robert T., and C. M. Allen, San Francisco, Cal. Electromagnetic car-brake	525,505	Sept. 4	307	76	68	1209
Murray, Thomas A., Boston, Mass. Apparatus for generating electricity for lighting rail- way-cars	529,563	Nov. 20	1882	448	69	1028
Murray, Thomas E. (See Blessing and Murray.)						
Murray, Timothy J., Covington, Ind. Flagstaff.....	526,253	Sept. 18	1619	380	68	1471
Murray, William B. (See Thompson and Murray.)						
Murray, William E., D. W. and G. W. Hatfield, Harrisburg, Pa. Street-railway switch... ing floors	522,914	July 10	1264	313	68	254
Murray, William W., and T. W. Cromer, Baltimore, Md. Machine for dressing or polish- ing floors	521,729	June 19	1732	{ 411 412 }	67	1545
Murphy, George C., Seattle, Wash. Hoisting-machine	512,258	Jan. 2	869	209	66	164
Musgrave, James, <i>et al.</i> (See Dixon, George, assignor.)						
Musgrove, James, Greenvale, Victoria. Seed-sower	528,732	Nov. 6	263	88	69	712
Mushette, Ida E., Oakland, Cal. Combined shoe and glove buttoner.....	525,154	Aug. 28	2060	502	68	1081
Musical Telephone Company. (See Prince, Jerome, assignor.)						
Muskegon Chemical Fire Engine Company. (See Schumacher, Albert C., assignor.)						
Muslar, Nelson, West Boylston, assignor to R. C. Hemman, Boston, Mass. Machine for feeding crown bottle-stoppers	531,001	Dec. 18	1607	382	69	1538
Musselmann, John E., Lodi, N. J., assignor of one-half to C. H. Simmons, Brooklyn, N. Y. Automatic fire extinguisher and alarm	526,355	Sept. 18	1791	{ 424 425 }	68	1506
Musser, Frank P., Beaver Falls, Pa. Car-brake	519,587	May 8	1176	283	67	773
Musser, Luther W., State College, Pa. Educational appliance	522,010	Oct. 23	2247	542	69	459
Muth, Charles W., and H. Martin, New Corydon, Ind. Money-changer for fare-boxes	515,920	Mar. 6	293	69, 70	66	1508
Muth, George, <i>et al.</i> (See Schon, Hubert, assignor.)						
Muth, Joseph P., St. Louis, Mo. Hitching device	519,891	May 15	1676	408	67	879
Muther, Lorenz, Oak Park, assignor to Union Special Sewing Machine Company, Chi- cago, Ill. Bed-plate for sewing-machines	523,917	July 31	3041	757	68	628
Myers, Adeline J., Industry, Ill. Flat-iron heater	525,427	Sept. 4	187	47	68	1186
Myers, Angelo, Philadelphia, Pa. Manufacturing yeast	528,643	Nov. 6	222	55, 56	69	686
Myers, David, assignor of one-half to Manchester Manufacturing Company, North Man- chester, Ind. Feed-water heater and steam-generator	526,841	Oct. 2	282	62	69	54
Myers, Frederick, assignor to Myers Manufacturing Company, New York, N. Y. Vehicle- wheel	528,887	Nov. 6	664	160	69	768
Myers, Herbert P. (See Reiley and Myers.)						
Myers, Jacob L., Des Moines, Iowa. Wheeled hand-rake.....	514,017	Feb. 6	65	16	66	866
Myers, James H., Grand Rapids, Mich. Ball-bearing	521,987	June 26	2216	533	67	1651
Myers, John J., Baltimore, Md. Automatic gas-governor	522,480	July 3	522	133	68	104
Myers, John M., Cotton Gin, Tex. Wire-stretcher	525,962	Sept. 11	1125	256	68	1369
Myers Manufacturing Company. (See Myers, Frederick, assignor.)						
Myers, Millard F., Greenville, Ohio. Potato-planter.....	525,918	Sept. 11	1047	238	68	1353
Myers, Peter D. (See Clark and Myers.)						
Myers, Philip A., Ashland, Ohio. Hay-carrier	525,715	Sept. 11	686	159	68	1290
Myers, Samuel, Crestline, Ohio. Machine for placing track-torpedoes	523,542	July 24	2374	596	68	490
Myers, Thomas A., Mendon, N. Y. Boiler	525,228	Aug. 28	2181	532	68	1103
Myerscough, John, St. Louis, Mo. Smokeless boiler-furnace	522,380	July 3	350	90	68	70
Myhre, Chris, assignor of three-fourths to J. D. Houseman, Jr., St. Louis, Mo. Car- seal	513,274	Jan. 23	2577	623	66	586
Myhre, Chris, assignor of fifty-one one-hundredths to A. B. Kammann, St. Louis, Mo. Match-box and cigar-cutter attachment for cigar-boxes	523,481	July 24	2274	571	68	470
N. O. Nelson Manufacturing Company. (See Hendrick, William H., assignor.)						
Nadal, Jean, Paris, France. Stud or fastening for shirt-wristbands, &c.	522,339	Oct. 30	2815	680	69	577
Naday, John, <i>et al.</i> (See Spengler, Reinhart, assignor.)						
Nadeau, Gedeon, Marinette, Wis. Runner attachment for children's carriages	525,964	Sept. 11	1127	256	68	1369
Nadencizek, Rudolf, Buda-Pesth, Austria-Hungary. Rotary engine	518,327	Apr. 17	1536	382	67	312
Nadig, Charles H., Allentown, Pa. Music-leaf turner	526,633	Sept. 25	2268	543	68	1607
Nadon, François E., River Desert, assignor of one-half to J. Comeau, Maniwaki, Canada. Ice-velocipede	515,442	Feb. 27	2431	602	66	1354
Naef, Paul, Argentine, Kans. Furnace for roasting ores.....	528,016	Oct. 23	2257	{ 544 545 }	69	461
Nagel, Henry M. (See Morgel, Ball, and Nagel.)						
Nagel, Jacob, near Houstonia, Mo. Wire-reeling truck	515,870	Mar. 6	219	51	66	1494
Nagel, Josef, Chemnitz, Germany. Apparatus for obtaining distilled and sterilized water.	523,230	July 17	1831	461	68	375
Nageldinger, John, New York, N. Y. Pressure-regulating valve	519,089	May 1	256	61	67	525
Nageldinger, John, New York, N. Y. Pressure-regulating valve	520,268	May 22	2337	567	67	1014
Nägele, Theodor, Göppingen, Germany. Insect-powder duster	522,301	July 3	221	59	68	44
Nagle, Augustus F., Chicago, Ill. Steam-trap.....	522,668	July 10	841	{ 209 210 }	68	178
Nagler, Robert, San Francisco, Cal. Truss	522,764	July 10	1035	256	68	211
Nail City Stamping Company. (See Reid, John, assignor.)						
Nailor, Henry B., assignor to American Sanitary and Manufacturing Company, Washing- ton, D. C. Garbage-receptacle	512,261	Jan. 2	872	210	66	164
Nalence, Charles. (See French and Nalence.)						
Nalence, Charles, Chicago, Ill. Piano attachment	521,937	June 26	2112	506	67	1634
Nall, Frederick W., assignor to G. Huntington, H. E. Kenny, and S. I. Slade, Detroit, Mich. Coin counter and deliverer	518,676	Apr. 24	2146	537	67	438
Nalton, Thomas M., Syracuse, N. Y. Tie-chain for vehicle-bodies	516,400	Mar. 13	1094	261	66	1672
Narjot, Ernest, assignor to H. Vayre, San Francisco, Cal. Gas-engine	515,530	Feb. 27	2569	636	66	1380

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Nash-Eddy Company. (See Nash, Nathan E., assignor.)						
Nash, Frank. (See Baird and Nash.)						
Nash, John B., Rochester, N. Y. Wall-book.	517,123	Mar. 27	2334	549	66	1938
Nash, Jonathan W. (See Klinefetter and Nash.)						
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Disk water-meter.	527,534	Oct. 16	1416	344	69	291
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Disk water-meter.	527,535	Oct. 16	1417	345	69	292
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Disk water-meter.	527,536	Oct. 16	1419	345	69	292
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Water-meter.	527,537	Oct. 16	1420	345	69	292
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Disk water-meter.	527,538	Oct. 16	1421	346	69	292
Nash, Lewis H., South Norwalk, Conn., assignor to National Meter Company, New York, N. Y. Disk water-meter.	527,539	Oct. 16	1422	346	69	292
Nash, Myron H., Kalamazoo, Mich. Mole-trap.	529,801	Nov. 27	2263	540	69	1106
Nash, Nathan E., Westerly, R. I., assignor to Nash-Eddy Company, of Ohio. Stopping apparatus for engines.	529,297	Nov. 13	1386	333 334	69	917
Nashold, Elias, assignor of two-fifths to H. W. Baskette, Chicago, Ill. Self-locking cleat for electric wires.	522,302	July 3	222	59	68	45
Nashua Saddlery Hardware Company. (See Taber, Orrin, assignor.)						
Nason, Carleton W., New York, N. Y. Steam-trap.	521,962	June 26	2165	519	67	1642
Nason, Carleton W., New York, N. Y. Gripping device.	521,963	June 26	2166	520	67	1642
Nason, Carleton W., New York, N. Y. Belt-soifting device for air-pumps.	529,404	Nov. 20	1589	378	69	975
Nason, Horace F., Natick, assignor of two-thirds to J. Q. A. and C. Whittemore, Boston, Mass. Sewing-machine.	513,717	Jan. 30	3330	832 833	66	760
Nason, Joseph H., Somerville, assignor of one-half to H. M. Hewes, Boston, Mass. Self-threading shuttle for looms.	528,550	Nov. 6	45	12	69	655
Nason, Horace F., Natick, assignor of two-thirds to C. and J. Q. A. Whittemore, Boston, Mass. Sewing-machine.	523,589	July 24	2447	613 614	68	503
Nastvogel, Oscar, and F. Reingruber, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue dye.	517,473	Apr. 3	98		67	21
Nathan, Lewis, London, England. Manufacture of artificial marble.	524,907	Aug. 21	1596	390	68	982
Nathan Manufacturing Company. (See Kaczander, Leopold, assignor.)						
Nathan, Scheyer, Brooklyn, N. Y. Pnrse-frame.	524,908	Aug. 21	1598	391	68	983
Näther, Oswald. (See Rudolph and Näther.)						
Nation, Enoch, Indianapolis, assignor to W. E. Nation, Kokomo, Ind. Duster.	521,174	June 12	752	177	67	1347
Nation, William E. (See Nation, Enoch, assignor.)						
National Boring and Drilling Company. (See MacEachen, Samuel, assignor.)						
National Cash Register Company. (See Brooke, William E., assignor.)						
National Cash Register Company. (See Cleal, Joseph P., assignor.)						
National Cash Register Company. (See Ehrlich, Leo, assignor.)						
National Cash Register Company. (See Gibbs, Edmund D., assignor.)						
National Cash Register Company. (See Grove, George W., assignor.)						
National Cash Register Company. (See Pfaff, Albert, assignor.)						
National Cash Register Company. (See Reeves, Orwell C., assignor.)						
National Cash Register Company. (See Shibeley, Charles W., assignor.)						
National Cash Register Company. (See Smyth, Charles, assignor.)						
National Cash Register Company. (See Smyth, Charles G., assignor.)						
National Cash Register Company. (See Weiss, Carl W., assignor.)						
National Casket Company. (See Stein and Rappleyea, assignors.)						
National Chain Gear Company. (See Brown, James O., assignor.)						
National Chair Manufacturing Company. (See Chichester, Lemuel A., assignor.)						
National Chair Manufacturing Company. (See Knight, Charles H., assignor.)						
National Chair Manufacturing Company. (See Knight, Chichester, and Relyea, assignors.)						
National Chromatic Printing Company. (See Getty, Fred I., assignor.)						
National Company. (See Baldwin, Cyrus W., assignor.)						
National Company. (See Foster, Charles E., assignor.)						
National Company. (See Otis, Norton P., assignor.)						
National Company. (See Reynolds, George H., assignor.)						
National Cycle Company. (See Grant, Sidney A., assignor.)						
National Cycle Manufacturing Company. (See Wilcox, Melvin L., assignor.)						
National Electric Car Lighting Company. (See Moskowitz, Morris, assignor.)						
National Electrical Manufacturing Company. (See Walter, Horace E., assignor.)						
National Electrical Manufacturing Company. (See Winterhalter, Louis, assignor.)						
National Engraving Machine Company. (See Bruckner, Charles C., assignor.)						
National Envelope Company. (See Heywood, Charles H., assignor.)						
National Folding and Enveloping Company. (See McDonald, James R., assignor.)						
National Heat and Power Company. (See Hastings, James L., assignor.)						
National Heat and Power Construction Company. (See McDonald, Donald, assignor.)						
National Key-Opening Can Company. (See Underdown, John K., assignor.)						
National Key-Opening Can Company. (See Zimmerman, John, assignor.)						
National Key-Opening Can Company. (See Zimmerman and Underdown, assignors.)						
National Lead Company. (See Ramming, John, assignor.)						
National Machine Company. (See Harris, Edmund A., assignor.)						
National Machine Company. (See Hogan, James T., assignor.)						
National Malleable Castings Company. (See Tower, Clinton A., assignor.)						
National Manufacturing Ice and Refrigerating Machine Company. (See Ruby and Frey, assignors.)						
National Metallic Pocket Fastener Company. (See Mandel and Henderson, assignors.)						
National Meter Company. (See Nash, Lewis H., assignor.)						
National Sewing Machine Company. (See Goodrich, Frank L., assignor.)						
National Time Recorder Company. (See Bolte and King, assignors.)						
National Union Telephone Company. (See Serdinko, John, assignor.)						
Naughton, John W., New York, N. Y. Making electrolyte-plates.	529,078	Nov. 13	1006	243	69	848
Naumann, William A., Brooklyn, N. Y. Rack for musical instruments.	520,214	May 22	2244	546	67	996
Naumburg, Aaron. (See Egger and Wessel, assignors.)						
Naumburg, Aaron. (See Wessel and Egger, assignors.)						
Nax, William, Philadelphia, Pa. Tobacco-pipe.	523,861	July 31	2943	734	68	610
Naylor, Amos F., Brandwine Hundred, Del. Railway-chair.	520,534	May 29	2773	671	67	1111
Naylor, Ernest W., Cleveland, Ohio. Mechanism for controlling the operation of hydraulic presses, shears, &c.	513,133	Jan. 23	2344	565	66	540

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Naylor, James, Jr. (See McLauthlin and Naylor.)						
Naylor, James, Jr., assignor to G. T. McLauthlin, Boston, Mass. Elevator.....	514,023	Feb. 6	73	18, 19	66	867
Naylor, James, Jr., assignor of three-fourths to G. T. McLauthlin, Boston, Mass. Speed-indicator.....	514,865	Feb. 13	1476	371	66	1150
Naylor, James, Jr., assignor of three-fourths to G. T. McLauthlin, Boston, Mass. Press-recorder.....	520,073	May 22	1982	{ 485 486 }	67	949
Naylor, James, Jr., assignor of three-fourths to G. T. McLauthlin, Boston, Mass. Continuous extractor.....	528,735	Nov. 6	366	89, 90	69	713
Naylor, James, Jr., assignor of three-fourths to G. T. McLauthlin, Boston, Mass. Sump-purifier.....	529,662	Nov. 20	2035	488	69	1056
Naylor, James, Jr., assignor of three-fourths to G. T. McLauthlin, Boston, Mass. Centrifugal water-purifier.....	529,663	Nov. 20	2037	489	69	1057
Naylor, James, Jr., assignor of three-fourths to G. T. McLauthlin, Boston, Mass. Centrifugal machine.....	529,664	Nov. 20	2039	489	69	1057
Naylor, James, Jr., assignor of three-fourths to G. T. McLauthlin, Boston, Mass. Speed-recorder.....	530,710	Dec. 11	1125	{ 273 274 }	69	1434
Neacy, Thomas J., Milwaukee, Wis. Sprocket-wheel.....	516,550	Mar. 13	1346	321	66	1720
Neafie, James, Boonton, N. J. Railway-tie.....	517,585	Apr. 3	274	63	67	54
Neal, Charles A., Boston, Mass. Syringe.....	514,378	Feb. 6	676	171	66	980
Neal, John W. S., Paris, France. Handle for tools.....	522,181	June 26	2537	609	67	1712
Neal, Sarah C., New York, N. Y. Folding crib.....	520,699	May 29	3066	742	67	1165
Neal, William, Washington, Iowa, assignor to Advance Thresher Company, Battle Creek, Mich. Threshing-machine.....	524,264	Aug. 7	495	{ 114 115 }	68	750
Neale, David, Fort Calhoun, Nebr. Mattress for riprap.....	517,879	Apr. 10	755	189	67	160
Neale, David, Fort Calhoun, Nebr. Pile-point and permanent anchor for piles or cables.....	517,880	Apr. 10	756	189	67	160
Neale, David, Fort Calhoun, Nebr. Composite building-mat.....	526,457	Sept. 25	2010	478	68	1558
Neate, Charles, Upper Sandusky, Ohio. Fence-building machine.....	528,303	Oct. 30	2757	666	69	567
Nebinger, Rankin C. (See Phelan, John, assignor.)						
Necker, Karl, Berlin, Germany. Machine for sewing beads to fabrics.....	518,156	Apr. 10	1226	{ 307 308 }	67	240
Needham, Charles W. (See Bliss, Louis D., assignor.)						
Needham, William H., Worcester, Mass. Attachment for banjos.....	524,728	Aug. 21	1306	320	68	930
Needles, Charles W., Atlantic, Iowa. Shovel-board for wagons.....	524,345	Aug. 14	668	163	68	799
Neel, Alfred C., et al. (See Blakeley, John D., assignor.)						
Neeley, J. J., et al. (See Neeley, Joseph P., assignor.)						
Neeley, Joseph P., assignor of two-thirds to E. V. Allen, Hancock, Mo., and J. J. Neeley, Greenop, Ill. Combined door-check and buffer.....	528,017	Oct. 23	2259	545	69	461
Neely, George S., assignor of one-half to W. M. Brazeale, Pacific, Mo. Automatic safety-valve for water-gages.....	524,393	Aug. 14	753	184	68	816
Neer, Harry M., assignor of two-thirds to S. Cochran, Chicago, Ill. Cash-register.....	518,892	Apr. 24	2517	{ 622 623 }	67	504
Neff, Abraham J., assignor of one-half to W. B. Lehman, Goshen, Ind. Saw-filing-machine.....	528,179	Oct. 30	2536	615	69	528
Neff, Ard D., Petersburg, Pa. Gate.....	525,155	Aug. 28	2061	502	68	1082
Neff, Charles H. (See Rooks, Alva N., assignor.)						
Neff, Elijah, Milford, Ind. Pump for water systems.....	512,737	Jan. 16	1664	{ 399 400 }	66	342
Neff, John W., Buckhannon, W. Va. Line-chalking device.....	526,937	Oct. 2	450	111	69	84
Neff, Joseph B., Bushnell, Ill. Molding appliance.....	525,355	Sept. 4	54	15	68	1161
Neff, Louis C. (See Waring, Wilber W., assignor.)						
Negus, William P., West Branch, Iowa. Wire-stretcher.....	513,816	Jan. 30	3473	855	66	788
Nehrmeyer, Henry, Reinhardt, Tex. Cotton-cultivator.....	513,817	Jan. 30	3474	{ 855 856 }	66	788
Nehrmeyer, Henry, Reinhardt, Tex. Stalk-cutter.....	516,444	Mar. 13	1167	{ 270 271 }	66	1636
Nehrmeyer, Henry, Reinhardt, Tex. Planter and cultivator.....	516,445	Mar. 13	1169	280	66	1686
Nehrmeyer, Henry, Reinhardt, Tex. Automatic cotton or corn planter.....	516,446	Mar. 13	1173	281	66	1687
Neidhardt, Paul, Chicago, Ill. Button.....	527,502	Oct. 16	1359	331	69	282
Neidig, Clement, Bourbon, Ind. Folding umbrella.....	529,459	Nov. 20	1701	406	69	995
Neidl, Frank, assignor to P. H. and F. Buchanan, San Francisco, Cal. Bathing or flesh brush.....	513,718	Jan. 30	3334	823	66	761
Neil, Edwin, Newark, N. J. Cable stop mechanism.....	527,069	Oct. 9	643	{ 136 137 }	69	135
Neil, Martha J. (See Neil, Michael, assignor.)						
Neil, Michael, assignor of two-thirds to M. J. Neil, Dayton, Ohio. Mode of and appliance for plashing hedges.....	518,466	Apr. 17	1794	445	67	361
Neilen, Nels, Sioux City, Iowa. Garment-hanger.....	519,964	May 15	1789	438	67	900
Neill, Francis A. E., et al. (See Rigby, Brierley K., assignor.)						
Neilson, Walter. (See Mills, Morris, assignor.)						
Neiman, Eli H., York, and S. E. Beecher, Milton, Pa.; said Beecher assignor to said Neiman. Artificial tooth.....	513,818	Jan. 30	3476	856	66	788
Neisler, Oscar L., assignor to Kimberlin Manufacturing Company, Indianapolis, Ind. Cultivator.....	517,289	Mar. 27	2610	612	66	1991
Nelle, John L. (See Janke, Otto, assignor.)						
Nellis, Aaron J., Pittsburg, Pa. Glass-finishing machine.....	517,358	Mar. 27	2723	640	66	2014
Nellis, Emery D., assignor to Bridge & Beach Manufacturing Company, St. Louis, Mo. Means for operating stove-dampers.....	516,875	Mar. 20	1890	447	66	1838
Nellis, Jacob H., Canajoharie, N. Y. Bottle-case.....	516,218	Mar. 13	792	185	66	1616
Nellis, Jacob H., Canajoharie, N. Y. Case for bottles or cans.....	520,007	May 15	1862	455	67	912
Nellis, Jacob H., Canajoharie, N. Y. Dice-thrower.....	524,265	Aug. 7	497	115	68	751
Nellis, Jacob H., Canajoharie, N. Y. Temporary binder.....	528,551	Nov. 6	46	12, 13	69	655
Nellis, Malvina. (See Saltzman, Aaron J., assignor.)						
Nelson, Andrew, Moline, Ill. Wheel.....	513,525	Jan. 30	2997	739	66	700
Nelson Automatic Lifting Machine Company. (See Nelson, David, assignor.)						
Nelson Car Coupling Company. (See Nelson, Swen P., assignor.)						
Nelson, Charles, Brooklyn, N. Y. Package.....	514,159	Feb. 6	305	73	66	910
Nelson, Charles, St. Louis, Mo. Protector for tops of ice-cream cans.....	527,711	Oct. 16	1695	408	69	343
Nelson, David, assignor to Nelson Automatic Lifting Machine Company, Reno, Nev. Lifting-machine.....	523,440	July 24	2187	531	68	456
Nelson, Edward, Kansas City, Mo. Twine-holder and take-up.....	517,474	Apr. 3	100	22	67	21
Nelson, Eugene. (See Nelson, John F., assignor.)						
Nelson, Frank G., New York, N. Y. Calculator.....	526,196	Sept. 18	1522	357	68	1452
Nelson, Frank W., Chicago, Ill. Wrench.....	527,181	Oct. 9	820	199	69	168
Nelson, Hans J., and N. M. Nielsen, Tyler, Minn. Clod crusher and pulverizer.....	520,799	June 5	75	16	67	1211
Nelson, Henry H., Beardsley, Minn., assignor of one-half to P. Nelson, Nora Springs, Iowa. Automatic tyer for bags.....	515,155	Feb. 20	1937	484	66	1249

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Nelson, John F., assignor of one-half to E. Nelson, New York, N. Y. Shut-off device for pipes	521,938	June 26	2113	507	67	1634
Nelson, Oscar, Brooklyn, N. Y. Reading-stand	525,356	Sept. 4	55	15	68	1161
Nelson, Peter. (See Nelson, Henry H., assignor.)						
Nelson, Robert W., Hartford, Conn. Composition-case	528,106	Oct. 23	2411	524	69	490
Nelson, Swen P., assignor to Nelson Car Coupling Company, Omaha, Nebr. Car-coupling.	520,376	May 22	2515	609	67	1049
Nelson, Thomas G. (See Gelabert, William P., assignor.)						
Nelson, William C., Santa Rosa, Cal. Car-coupling	521,545	June 19	1421	330	67	1486
Nelson, William H., Waterbury, Conn. Cutting-tool	528,787	Nov. 6	470	115	69	731
Nelson, William O., Baltimore, Md. Lubricator	517,553	Apr. 3	226	52	67	45
Nelson, William T., et al. (See McAnulty, John A., assignor.)						
Nelsonville Foundry and Machine Company. (See Bennett, Darlus, assignor.)						
Nemes, Edmund. (See Tamas and Nemes.)						
Nennstiel, Edward, Johnstown, Pa. Railway-chair	527,712	Oct. 16	1696	409	69	343
Neptune Meter Company. (See Thomson, John, assignor.)						
Nerison, Jacob, Bruce, Minn. Band-cutter and feeder for thrashing-machines	515,356	Feb. 27	2289	{ 567 568 463 }	{ 66 63 }	1327 1052
Nesbit, Joseph B., assignor of two-thirds to P. P. Smith and C. E. Houser, Sunbury, Pa. Cash register and indicator with electric-alarm attachment	525,056	Aug. 28	1889	{ 463 463 }	{ 68 63 }	1052 103
Nesmith, John W., assignor to Colorado Iron Works, Denver, Colo. Blast-furnace	512,053	Jan. 2	537	127	66	103
Nesly, Frank W., La Grande, Oreg. Grain-heading machine	518,787	Mar. 6	920	51, 52	66	1194
Nester, Michael F., Camden, N. J. Lubricator	516,104	Mar. 6	592	139	66	1563
Nestor, John. (See Ferguson, James H., assignor.)						
Nethery, Joseph W., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker	517,290	Mar. 27	2612	613	66	1991
Nethery, Joseph W., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic straw-stacker	517,475	Apr. 3	101	22, 23	67	21
Nethery, Joseph W., assignor to Indiana Manufacturing Company, Indianapolis, Ind. Straw-stacker	519,680	May 8	1333	{ 321 322 }	{ 67 67 }	801
Nendorf, D. Ind. (See Fuchs, Simon, assignor.)						
Neuhauser, Emil, Gridley, Ill. Gate	522,081	June 26	2366	569	67	1679
Neukirchen, John, Dusseldorf, Germany. Washing-machine	515,529	Feb. 27	2568	636	66	1379
Neumann, Hermann, Jersey City, N. J. Weatherproof window-frame	520,330	May 22	2431	591	67	1032
Neumann, Ignatz. (See Schlangen and Neumann.)						
Neumann, Theodor, Berlin, Germany. Billiard-ball	512,391	Jan. 9	1099	266	66	220
Neumeyer, Horace F., Macungie, Pa. Spray-nozzle	525,507	Sept. 4	309	76	68	1209
Nevill, William B., assignor of one-half to J. B. Handley, Rockwall, Tex. Ejector-pump	513,412	Jan. 23	2784	{ 680 681 }	{ 66 66 }	625
Nevill, William B., assignor of three-fourths to J. B. Handly, H. C. Hoskins, and W. N. Sellers, Rockwall, Tex. Pumping apparatus	517,229	Mar. 27	2511	590	66	1972
Neville, Asa G., Blairsville, Pa. Mold for blowing glass	529,665	Nov. 20	2041	489	69	1057
Nevins, Simon J. (See Post and Nevins.)						
New Braoston Two Reel Sewing Machine Company. (See Holroyd, Hunt, and Johns, assignors.)						
New Departure Bell Company. (See Rockwell, Edward D., assignor.)						
New England Automatic Gas Lighting Company. (See Shaw, A. B., assignor.)						
New England Automatic Gas Lighting Company. (See Shaw, Nathaniel H. and A. B., assignors.)						
New England Butt Company. (See McCahay, John, assignor.)						
New England Folding Box Company. (See Patrick, Sheldon E., assignor.)						
New Haven Car Register Company. (See Boyd and Gurdig, assignors.)						
New Haven Elevator Guard Company. (See Jones, Charles B., assignor.)						
New Haven Safety Door-Guard Company. (See Phelps, Friend A., assignor.)						
New Jersey Blower Company. (See Poole, Garrett W., assignor.)						
New Jersey Blower Company. (See Poole, Jacob O., assignor.)						
New York and Pennsylvania Telephone and Telegraph Company. (See Wolverton, Byron C., assignor.)						
New York Car Switch Company. (See Clouser, Samuel F., assignor.)						
New York Car Switch Company. (See Clouser and Seward, assignors.)						
New York Car Switch Company. (See Seward, Edward C., assignor.)						
New York Condensed Milk Company. (See Bishop, Noah L., assignor.)						
New York Condensed Milk Company. (See Milbank, Nichols, assignor.)						
New York Electrical and Development Company. (See Slocum, Harry F., assignor.)						
New York Electrical Works. (See Smith and Clabaugh, assignors.)						
New York Labor Saving Patents Exploiting Company. (See Snowman, Herman C. F. E., assignor.)						
Newark Watch Case Material Company. (See Richardson, Willis S., assignor.)						
Newberry, Ezra W., Lane, Kans. Shock-compressor	518,350	Apr. 17	1592	394	67	324
Newberry, John A., Ronse's Point, N. Y. Combined menu-card and check	528,889	Nov. 6	667	161	69	768
Newbigging, William, Milford, Ohio. Carpet-sweeper	525,610	Sept. 4	481	115	68	1241
Newbold, Charles. (See Schneider, August, assignor.)						
Newbury, Charles H., St. Paul, Minn. Railway-car	514,332	Feb. 6	612	155	66	968
Newbury, Charles H., assignor of one-half to J. J. Borum, St. Paul, Minn. Electric heater	524,646	Aug. 14	1164	287	68	893
Newby, Abner E., San José, Cal. Holder-plate for type	512,447	Jan. 9	1210	293	66	241
Newby, Alfred J., New York, N. Y. Piano-case	531,057	Dec. 18	1706	405	69	1556
Newby, James and T. F., Harrisburg, Pa. Purifier and aerator	530,445	Dec. 4	634	158	69	1331
Newby, Thomas F. (See Newby, James and T. F.)						
Newcomb, Abner S., Worcester, Mass. Device for measuring dress-skirts	519,090	May 1	258	61	67	585
Newell, Alfred T., Anderson, S. C. Wagon-brake	511,861	Jan. 2	182	45	66	38
Newell & Co., James S. (See Stone, Hendie D., assignor.)						
Newell & Co., James S. (See Stone and Thibodeau, assignors.)						
Newell, George H., Grand Rapids, Mich. Fish-rod reel	527,713	Oct. 16	1697	409	69	343
Newell, James B., Red Wing, Minn. Combined thill-coupling and antirattler	524,604	Aug. 14	1055	268	68	878
Newell, John F., Gardiner, Me. Bearing for shafts	513,953	Jan. 30	3685	907	66	830
Newell, John F., Gardiner, Me. Mechanically compounding an oil or oils with another material, &c.	520,493	May 29	2711		67	1100
Newell, John H., Hurley, Wis. Chain pipe-wrench	520,547	Sept. 18	1260	292	68	1406
Newell, John H., Hurley, Wis. Chain pipe-wrench	530,547	Dec. 11	850	210	69	1386
Newell, John H., Urbana, Ohio. Corn-harvester	530,493	Dec. 4	738	{ 181 182 }	{ 69 69 }	1349
Newell, William, St. Louis, Mo. Car-coupling	512,738	Jan. 16	1667	400	66	342
Newhall, George M., Philadelphia, Pa. Stuff-chest and bleacher	529,937	Nov. 27	2490	{ 600 601 }	{ 69 69 }	1149
Newhouse, George A., New Albany, Ind. Trolley	531,383	Dec. 25	2309	551	69	1682

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Newhouse, John E., Magnetic Springs, assignor of two-thirds to S. N. McCloud and C. F. Lents, Marysville, Ohio. Heating-drum.....	529,405	Nov. 20	1591	378	69	976
Newington, Harry M., New York, N. Y. Knob attachment.....	524,861	Aug. 21	1529	374	68	970
Newlyn, Robert A., assignor of one-half to G. W. Hart and A. H. Boylan, Cincinnati, Ohio. Electrical recording device for safes.....	529,938	Nov. 27	2491	601	69	1150
Newman, Abraham, Chicago, Ill. Watchman's time-recorder.....	530,446	Dec. 4	636	158 159	69	1332
Newman, George R. J., Washington, D. C. Combined car and air-brake coupling.....	514,769	Feb. 13	1325	331	66	1121
Newman, Jacob. (See Gregory, John H., assignor.)						
Newman, John W., <i>et al.</i> (See Savill, Edward, assignor.)						
Newman, Samuel T., Danbury, Conn. Hat-packing ring.....	520,145	May 22	2124	519	67	974
Newport, William T., Farmersville, Ill. Race-track-leveling machine.....	528,890	Nov. 6	668	161	69	768
Newsom, Nathan, Elizabethtown, Ind. Pneumatic straw-stacker.....	524,894	Aug. 14	755	184	68	817
Newsome, Simeon, assignor of one-half to W. Wright, Detroit, Mich. Oil heater or cooker.....	520,188	May 22	2202	536	67	989
Newton, Charles C., Philadelphia, Pa. Clamp for circular saws.....	519,892	May 15	1678	408 409	67	879
Newton, Charles C., Philadelphia, Pa. Saw-grinding machine.....	519,893	May 15	1679	409	67	879
Newton, Charles C., Philadelphia, Pa. Metal-saw.....	523,862	July 31	2944	734	68	610
Newton, Charles C., Philadelphia, Pa. Machine for sawing metal.....	524,556	Aug. 14	1021	251 252	68	865
Newton, Charles C., Philadelphia, Pa. Mechanism for driving saws.....	530,791	Dec. 11	1260	304	69	1460
Newton, David L. (See Lasher, Webster, and Newton.)						
Newton, James E. (See Piper and Newton.)						
Newton, Robert, Providence, R. I. Mechanical-stoker furnace.....	513,244	Jan. 23	2524	609	66	576
Newton, Robert W., Providence, R. I. Fire-extinguisher.....	514,160	Feb. 6	305	73	66	910
Newton, Robert W., Providence, R. I. Automatic sprinkler.....	514,161	Feb. 6	306	73	66	911
Newton, Robert W., Providence, R. I. Automatic sprinkler.....	514,162	Feb. 6	308	73	66	911
Newton, Robert W., Providence, R. I. Automatic sprinkler.....	514,163	Feb. 6	309	74	66	911
Newton, Ward B., <i>et al.</i> (See Thrasher, Benton C., assignor.)						
Ney Manufacturing Company. (See Swacick, Judson D., assignor.)						
Neydeck, Alfred, Geneva, Switzerland. Tool for grinding or polishing precious stones....	523,002	July 17	1424	355 356	68	300
Niagara Stamping and Tool Company. (See Juergens, Frederick A., assignor.)						
Nichels, Thomas. (See Fairchild, Frank J., assignor.)						
Nicholas, Benjamin F., Renovo, Pa. Clothes-drier.....	527,003	Oct. 2	542	133	69	102
Nicholls, John C., Blue Mound, Ill. Chicken-brooder.....	516,976	Mar. 20	2061	487 488	66	1869
Nicholls, Walter H., Lynn, assignor of one-half to Libby, Harlow & Co., Boston, Mass. Skate.....	530,711	Dec. 11	1127	274	69	1435
Nichols, Aaron S., Chicago, Ill. Apparatus for drying veneers.....	515,357	Feb. 27	2290	568	66	1327
Nichols, Alfred F., <i>et al.</i> (See Burkhardt, Franklin P., assignor.)						
Nichols, Edwin C., Kansas City, Mo. Apparatus for generating compressed air.....	530,118	Dec. 4	74	20, 21	69	1229
Nichols, Edwin C., assignor, by mesne assignments, to S. M. Nichols, M. A. and W. G. Melville, Kansas City, Mo. Hydraulic motor.....	516,164	Mar. 6	690	162 163	66	1582
Nichols, Emory I., San Francisco, Cal. Hydrocarbon-motor.....	520,858	June 5	191	42	67	1231
Nichols, Emory I., assignor of one-half to J. Brower, San Francisco, Cal. Vapor-burner....	519,819	May 15	1557	381	67	857
Nichols, George D. (See Andrews, James C., assignor.)						
Nichols, George L. (See Barton and Nichols.)						
Nichols, Grant B., Wapakoneta, Ohio. Tellurian.....	522,082	June 26	2368	570	67	1680
Nichols, Henry B., and F. H. Lincoln, Philadelphia, Pa. Section-insulator.....	521,124	June 5	657	155	67	1315
Nichols, Henry B., and F. H. Lincoln, Philadelphia, Pa. Electric-railway crossing-insulator.....	523,172	July 17	1733	434	68	357
Nichols, Henry B., and F. H. Lincoln, Philadelphia, Pa. Bond for electric railways.....	528,788	Nov. 6	470	115	69	732
Nichols, Henry B., and F. H. Lincoln, Philadelphia, Pa. Underground electric railway.....	529,406	Nov. 20	1592	379	69	976
Nichols, Henry C., Hopkinton, R. I. Steam-engine governor.....	527,503	Oct. 16	1360	331 332	69	282
Nichols, Henry G., trustee. (See Cross, Bevan, and Beadle, assignors.)						
Nichols, Henry W., Salt Lake City, Utah. Roof-templet.....	525,611	Sept. 4	483	115	68	1242
Nichols, Herschel D., Coldwater, Mich. Mole-trap.....	524,346	Aug. 14	669	163	68	800
Nichols, Joseph, Chicago, Ill. Hinge.....	517,124	Mar. 27	2335	550	66	1938
Nichols, Marshall C., Viroqua, Wis. Sheathing-lath.....	513,025	Jan. 16	2184	521	66	438
Nichols, Munson. (See Nichols, William K., assignor.)						
Nichols, Phineas P., <i>et al.</i> (See Traphagen, George W., assignor.)						
Nichols, Shirley M., <i>et al.</i> (See Nichols, Edwin C., assignor.)						
Nichols, William K., San Francisco, Cal., assignor to M. Nichols, Albany, N. Y. Adding-machine.....	517,291	Mar. 27	2613	613 614	66	1992
Nicholson, Aaron, Albany, N. Y. Valve-gear for steam-engines.....	514,024	Feb. 6	76	20	66	868
Nicholson, Emily H. (See Nicholson, Thomas, Jr., assignor.)						
Nicholson, Frank, Oakfield, N. Y. Car-signal.....	525,357	Sept. 4	56	16	68	1161
Nicholson, Theophilus G. H., Liverpool, England. Inhaler.....	516,401	Mar. 13	1096	261	66	1672
Nicholson, Thomas, Jr., Ashbourne, Pa., assignor of one-half to E. H. Nicholson. Safety-wrench for unloading cars.....	518,533	Apr. 17	1901	470	67	379
Nickelson, Hugh H. (See Dixon, Charles H., assignor.)						
Nickerson, Adoniram J., Argyle, Canada. Boat-knee.....	518,677	Apr. 24	2149	537	67	438
Nickerson, Augustus M. (See Moody, James M. and S. B., assignors.)						
Nickerson, Hiram B., West Stoughton, assignor of two-thirds to W. H. Milliken and E. Trowbridge, Franklin, Mass. Fountain-syringe.....	511,790	Jan. 2	74	18	66	17
Nickerson, Luke A., and P. A. Keller, Davenport, Iowa. Shears.....	526,814	Oct. 2	238	58	69	45
Nickerson, Truman K., Maquoketa, Iowa. Hydrocarbon-burner.....	519,339	May 8	734	180	67	693
Nickle, Alfred, Pleasant Mound, assignor of one-half to J. J. Jackson, Mulberry Grove, Ill. Wire-stretcher.....	531,209	Dec. 18	1992	473	69	1607
Nickles, James H., Jr., and G. F. Shirley, Hodges, S. C. Steak-tenderer.....	525,508	Sept. 4	311	77	68	1209
Nicol, John M., trustee. (See Eames, Henry H., assignor.)						
Nicol, Robert, Jr., Chicago, Ill. Curling-iron.....	512,516	Jan. 9	1321	319	66	261
Nicol, Robert, Jr., Chicago, Ill. Hair-crimping iron.....	520,859	June 5	193	42	67	1232
Nicol, Robert, Jr., Chicago, Ill. Toy money-box.....	528,018	Oct. 23	2260	545	69	461
Nicol, Willard F., <i>et al.</i> (See Moore, John Y., assignor.)						
Nicolai, Ludwig. (See Saltzkorn and Nicolai.)						
Nicolas, Edmund, assignor to Patent Plate Structure Company, Limited, Manchester, England. Construction of buildings for advertising purposes.....	528,789	Nov. 6	472	116	69	732
Niebur, Henry H., Ferndale, Cal. Ballot-box.....	518,351	Apr. 17	1592	394	67	324
Niederlaender, Heinrich, Chicago, Ill. Roofing-tile.....	530,119	Dec. 4	77	21	69	1229
Niedermayer, Henry. (See Griffiths and Niedermayer.)						
Niedringhaus, George W., assignor to St. Louis Stamping Company, St. Louis, Mo. Attaching handles and covers to vessels.....	517,230	Mar. 27	2513	590	68	1972

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Niedringhaus, George W., assignor to St. Louis Stamping Company, St. Louis, Mo. Attaching handles and covers to vessels.	519,069	May 1	223	53	67	579
Niehorer, William L., et al. (See Paro, Edward, assignor.)						
Niekamp, John G., Fort Recovery, Ohio. Trousers-pattern.	523,590	July 24	2450	614	68	504
Nielsen, Andrew P., assignor of one-half to A. Quortrup, Richmond Hill, N. Y. Window frame and sash.	523,591	July 24	2452	614 615	68	504
Nielsen, Anton E. (See Fowler, England, and Nielsen.)						
Nielsen, Herman, Edgerton, Wis. Steam-engine.	530,961	Dec. 18	1536	364	69	1525
Nielsen, Nicolaj M. (See Nelson and Nielsen.)						
Niemezik, Anton, Leipsie, Gemany. Wickless lamp.	524,093	Aug. 7	210	48	68	700
Niendorff, Carl O., New York, N. Y. Bottle-stopper.	524,971	Aug. 21	1708	421	68	1002
Nienstaedt, Ernst. (See Wexler and Nienstaedt.)						
Nienstaedt, Ernest, assignor of one-half to L. Goldmark, New York, N. Y. Winning metals from magnetic iron sand, metallic ore-dust, and metallic residues.	520,377	May 22	2516	-----	67	1049
Nienstaedt, Ernest, assignor of one-half to L. Goldmark, New York, N. Y. Composition of matter for artificial fuel.	523,368	July 24	2066	-----	68	435
Nienstaedt, Ernest, assignor of one-half to L. Goldmark, New York, N. Y. Winning metals from magnetic iron ore.	523,680	July 31	2618	-----	68	551
Nienstaedt, Ernest, assignor of one-half to L. Goldmark, New York, N. Y. Ink.	523,863	July 31	2945	-----	68	611
Nier, William, assignor of one-half to J. and J. J. Armstrong and C. M. Cravens, Kansas City, Mo. Head-cutting machine.	525,612	Sept. 4	485	116	68	1242
Nier, William, assignor of one-half to J. and J. J. Armstrong and C. M. Cravens, Kansas City, Mo. Stave-cutting machine.	525,613	Sept. 4	487	116 117	68	1242
Niesan, Hubert, Kaukauna, Wis. Suction-roll for pulp or paper mills.	516,507	Mar. 13	1282	305	66	1707
Nievsky, Ladislav, London, England. Apparatus for exposing, developing, and washing dry-plates.	524,395	Aug. 14	758	185	68	817
Niewerth, Regina, Berlin, Germany. Electric-arc lamp.	512,481	Jan. 9	1370	305	66	252
Niewerth, Regina, Berlin, Germany. Electric-arc lamp.	512,482	Jan. 9	1271	305 306	66	252
Nightingale, George. (See Murphy, James A., assignor.)						
Nightingale, William R., assignor of one-half to J. H. Simonton, Valley, Nebr. Revolving cleaning-brush.	518,352	Apr. 17	1597	395	67	325
Niles, Milton C., Oak Park, Ill. Rail-joint.	513,275	Jan. 23	2578	624	66	587
Niles, Milton C., Oak Park, Ill. Rail-joint.	529,044	Nov. 13	945	223	69	838
Niles Tool Works Company. (See Coes, Zoroaster B., assignor.)						
Nilsson, Frans O., Stockholm, Sweden. Centrifugal creamer.	515,053	Feb. 20	1774	447	66	1218
Nilsson, George F., Whitinsville, Mass. Steam-boiler.	517,147	Mar. 27	2369	559 560	66	1945
Nilsson, Nils, Brooklyn, N. Y. Box-fastening.	515,156	Feb. 20	1938	425	60	1349
Nimeroff, Moses. (See Kaufmann and Nimeroff.)						
Nininger, Thomas E., Inter Lachen, Fla. Fruit-wrapping machine.	516,638	Mar. 13	1497	356 357	66	1748
Nisbot, David F., Allegheny, Pa. Direct-acting steam-engine.	511,905	Jan. 2	304	70, 71	66	59
Nishwitz, Frederick, Millington, N. J. Harrow.	527,875	Oct. 23	1985	477	69	411
Nisley Practice Piano Company. (See Nisley, William O., assignor.)						
Nisley, William O., assignor to Nisley Practice Piano Company, Portland, Oreg. Practice-piano.	527,504	Oct. 16	1363	332	69	282
Nisly, George J. (See Benton and Nisly.)						
Nisson, Alfred C., Chicago, Ill. Book.	515,872	Mar. 6	222	52	66	1495
Nittinger, August, Sr., Philadelphia, Pa. Combined candlestick and match-box.	531,467	Dec. 25	2463	586	69	1712
Niven, John. (See Henretty, James, assignor.)						
Niven, Robert, Providence, R. I. Shipping-box.	513,819	Jan. 30	3477	856	66	789
Nixon, Alban, Christiana, Pa. Bag-fastener.	527,714	Oct. 16	1700	409	69	344
Nixon, James R., Denver, Colo. Steam-pump governor.	528,423	Oct. 30	3067	743	69	623
Nixon, Moses C., Omaha, Nebr. Baling-press.	515,786	Mar. 6	98	23	66	1472
Nixon, Moses C., Omaha, Nebr. Baling-press.	523,661	July 31	2619	651	68	551
Noack, Charles A., St. Louis, Mo. Fire-escape.	521,416	June 12	1174	279	67	1426
Noack, Charles A., St. Louis, Mo. Clavo-mandolin.	530,712	Dec. 11	1129	274	69	1435
Noar, Isaac, New York, N. Y. Necktie-fastener.	518,855	Apr. 24	2448	607	67	491
Noar, Isaac, New York, N. Y. Necktie-shield.	519,268	May 1	586	143	67	651.
Nobel, Alfred, Paris, France. Means for generating gases under pressure for obtaining motive power.	515,500	Feb. 27	2513	623	66	1369
Noble, Andrew, and C. H. Murray, assignors to Sir W. G. Armstrong, Mitchell & Company, Limited, Newcastle-upon-Tyne, England. Automatically-operated breech mechanism for ordnance.	517,391	Mar. 27	2812	656 657	66	2031
Noble, Andrew, and R. T. Brankston, assignors to Sir W. G. Armstrong, Mitchell & Company, Limited, Newcastle-upon-Tyne, England. Anchor for field-gun carriages.	517,476	Apr. 3	103	23	67	22
Noble, Andrew, and R. T. Brankston, assignors to Sir W. G. Armstrong, Mitchell & Company, Limited, Newcastle-upon-Tyne, England. Recoil-press for gun-carriages.	524,605	Aug. 14	1086	268	68	878
Noble, Andrew, and R. T. Brankston, assignors to Sir W. G. Armstrong, Mitchell & Company, Limited, Newcastle-upon-Tyne, England. Quick-firing-gun mount.	526,407	Sept. 25	1921	456 457	68	1542
Noble, Andrew, and E. W. Lloyd, assignors to Sir W. G. Armstrong, Mitchell & Company, Limited, Newcastle-upon-Tyne, England. Breech-loading ordnance.	531,594	Dec. 25	2670	641 642	69	1753
Noble, Cyrus F., Baldwin, Me. Chain-coupling.	524,162	Aug. 7	363	86	68	728
Noble, Donald, Leeds, England. Portable pumping apparatus.	517,881	Apr. 10	758	189	67	161
Noble, Donald, Leeds, England. Portable pumping apparatus.	517,871	May 15	1644	400	67	873
Noble, Eldridge H., and J. W. Ward, Postville, Iowa; said Noble assignor to said Ward. Mop-wringer.	521,216	June 12	821	193	67	1359
Noble, Franklin, Jersey City, N. J. Dish-cleaner.	519,091	May 1	259	61, 62	67	586
Noble, John M. (See Cooley, Noble, and Trevor.)						
Noble, Leander J., Menasha, Wis. Pail.	520,074	May 22	1985	486	67	950
Noble, Mark L., and E. Buxton, Forest Grove, Oreg. Hinge for school-desk seats.	522,916	July 10	1267	313 314	68	255
Nobs, Charles, Newark, N. J. Watchcase-spring.	517,554	Apr. 3	227	52	67	45
Nobs, Charles, Newark, N. J. Watchcase-spring.	528,207	Oct. 30	2593	626	69	537
Noderer, Robert J., Cleveland, Ohio. Bicycle-rest.	529,939	Nov. 27	2493	601	69	1150
Noe, William, Marconier, N. J. Opening-lever for bail-stoppers.	513,338	Jan. 23	2669	647	66	604
Nolan, John P., and J. D. Connell, New Orleans, La. Hose cutting and mounting machine.	517,057	Mar. 27	2225	527	66	1915
Nolan, Walter N., El Oro, Mexico. Muller for grinding or amalgamating mills.	512,893	Jan. 16	1975	469	66	401
Nolley, David D., Wilson, N. C. Car-coupling.	519,092	May 1	262	62	67	586
Nolon, Edward, Wausau, Wis., assignor, by mesne assignments, to E. E. Prussing, Highland Park, Ill. Packing-box.	525,276	Aug. 28	2257	549	68	1119
Nolon, Edward, Wausau, Wis., assignor to C. M. Greene, Highland Park, Ill. Manufacturer of wood pulp.	530,898	Dec. 11	1426	-----	69	1490

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Noonan, James F., Lynn, Mass. Sole-channeling machine.....	522,799	July 10	1086	268	68	221
Noonan, Patrick F., Fort Stanton, N. Mex. Ter. Tent and support.....	522,483	July 3	526	133	68	104
Noone, Thomas D., Camden, N. J. Caterpillar-trap.....	523,682	July 31	2621	651	68	551
Nopper, George J., assignor of one-half to L. Strouse, Baltimore, Md. Oil-injector for steam-boilers.....	522,532	July 3	606	155	68	119
Norbom, John, San Francisco, Cal. Concentrator.....	522,442	Oct. 30	2990	722	69	603
Norcott, James R., Barling, Ark. Planter.....	529,298	Nov. 13	1387	334	69	917
Norcross, Charles S., Portland, Me. Window-screen.....	515,054	Feb. 20	1774	448	66	1218
Norcross, George A., assignor of seven-twelfths to W. E. Sanders and J. O. Sullivan, San Antonio, Tex. Car-coupling.....	529,045	Nov. 13	947	224	69	838
Norcross, Orlando W., Worcester, Mass. Saw for cutting stone.....	511,965	Jan. 2	399	93	66	76
Norcross, Orlando W., Worcester, Mass. Fireproof partition.....	526,730	Oct. 2	99	24	69	21
Norcross, Orlando W., Worcester, Mass. Fireproof floor.....	526,731	Oct. 2	100	25	69	21
Norcross, Orlando W., Worcester, Mass. Fireproof door.....	526,732	Oct. 2	101	25	69	21
Norcross, Orlando W., Worcester, Mass. Fireproof floor.....	531,210	Dec. 13	1993	473	69	1608
Nordlow, John P., Worcester, Mass. Pocket-knife.....	530,792	Dec. 11	1261	305	69	1460
Nordmann, Prosper. (See Morlet, Charles, assignor.)						
Nordyke, Addison H., Indianapolis, Ind. Sack-case for packing-machines.....	514,957	Feb. 20	1623	407	66	1192
Nordyke & Marmon Company. (See Brantingham, Allen C., assignor.)						
Nordyke & Marmon Company. (See Marmon, Daniel W., assignor.)						
Nordyke & Marmon Company. (See Warrington, Jesse, assignor.)						
Norlin, Charles G., and F. Lindstrom, Marquette, Kans. Clothes-line support.....	518,621	Apr. 24	2044	508	67	419
Normand, Augustin, Havre, France. Steam-engine attachment.....	514,333	Feb. 6	613	155 156	66	968
Normand, Augustin, Havre, France. Steam-boiler.....	525,614	Sept. 4	491	117 118 119	68	1243
Normanville, William L. de, Leamington, England. Waist-belt.....	515,302	Feb. 20	2188	542 543	66	1297
Norris, George E., Troy, N. Y. Machine for turning cuff-blanks.....	520,535	May 29	2775	671	67	1112
Norris, George S., Baltimore, Md. Bottle-stopper.....	516,726	Mar. 20	1661	394	66	1793
Norris, J. N. (See Prentice, Thomas, assignor.)						
Norris, James L., administrator. (See Adamson, Daniel.)						
Norris, Thomas A., Brockton, Mass. Punching-machine.....	520,215	May 22	2245	547	67	997
Norris, William M., Princeton, N. J., and H. Burk, Philadelphia, Pa. Tawed skin and making same.....	518,467	Apr. 17	1797		67	361
North Brothers Manufacturing Company. (See Aichele, Christian, assignor.)						
North, Charles H., assignor to P. North, Cleveland, Ohio. Electrical releasing device for target-traps.....	529,666	Nov. 20	2042	490	69	1053
North, Frank M. (See Brown, William B., assignor.)						
North, Franklin S., and A. Raymond, Detroit, Mich. Combined sprayer and nozzle.....	523,941	July 31	3096	770	68	640
North, John, Toledo, Ohio. Pedal air-compressor.....	527,248	Oct. 9	935	226	69	189
North & Judd Manufacturing Company. (See Judd, Mortimer N., assignor.)						
North, Paul. (See North, Charles H., assignor.)						
North, William C., and S. W. Sessions, Cleveland, Ohio. Bolt.....	519,411	May 8	866	209	67	718
Northall, William H., assignor of two-thirds to J. H. Polsdorfer & Sons, Evansville, Ind. Cork-holding bottle-cap.....	528,380	Oct. 30	2884	698	69	590
Northampton Emery Wheel Company. (See Otis, Philip A., assignor.)						
Northcraft, Ambro J., St. Louis, Mo. Rack.....	512,739	Jan. 16	1668	400	66	342
Northrop, Henry L., Syracuse, N. Y. Glove, &c.....	519,198	May 1	462	113	67	627
Northrop, James A. (See Grover and Northrop.)						
Northrop, James H., Hopedale, Mass. Spindle and bearing.....	515,715	Feb. 27	2867	715	66	1438
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Spindle-bearing.....	517,232	Mar. 27	2516	591	66	1973
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Load-equalizer for spinning and twisting spindles.....	525,468	Sept. 4	256	63	68	1198
Northrop, James H., assignor to G. Draper & Sons, Hopedale, Mass. Loom.....	529,940	Nov. 27	2494	601 602	69	1150
Northrop, James H., Hopedale, Mass., assignor to Northrop Loom Company, Hopedale, Mass., and Saco, Me. Loom.....	529,941	Nov. 27	2502	602	69	1151
Northrop, James H., Hopedale, Mass., assignor to Northrop Loom Company, Hopedale, Mass., and Saco, Me. Loom.....	529,942	Nov. 27	2504	603	69	1152
Northrop, James H., Hopedale, Mass., assignor to Northrop Loom Company, Hopedale, Mass., and Saco, Me. Loom.....	529,943	Nov. 27	2506	603 604	69	1152
Northrop Loom Company. (See Northrop, James H., assignor.)						
Northrup, Edwin F., Ardmore, assignor to Queen & Company, Philadelphia, Pa. Galvanic battery.....	520,120	May 22	2050	503	67	964
Northrup, Ernest A. (See Clark and Northrup.)						
Northrup, W. H. S. (See Snell, Arthur E., assignor.)						
Norton, Dennis, Chicago, Ill. Device for supporting workmen or objects on inclined surfaces.....	530,548	Dec. 11	852	210	69	1386
Norton, Edward B., et al. (See Booth, Charles S., assignor.)						
Norton, Edwin, et al. (See Hodgson, John C., assignor.)						
Norton, Edwin, et al. (See Leavitt and Hodgson, assignors.)						
Norton, Edwin, Maywood, assignor to himself, and O. W. Norton, Chicago, Ill. Seamless self-opening can.....	514,025	Feb. 6	77	20	66	863
Norton, Edwin, Maywood, assignor to himself and O. W. Norton, Chicago, Ill. Key for self-opening cans.....	517,657	Apr. 3	413	100	67	79
Norton, Edwin, and J. G. Hodgson, Maywood, assignors to said Norton and O. W. Norton, Chicago, Ill. Can-heading machine.....	522,270	July 3	171	46, 47 44	68	35
Norton, Edwin, J. G. Hodgson, Maywood, Ill., and F. M. Leavitt, Brooklyn, N. Y., assignors to said Norton and O. W. Norton, Chicago, Ill. Machine for rolling or crimping end seams of sheet-metal cans.....	522,269	July 3	168	45 46	68	33
Norton Emery Wheel Company. (See Walker, Oakley S., assignor.)						
Norton, Gerrit, assignor to M. M. Norton, New York, N. Y. Corking-machine.....	527,021	Oct. 2	574	139	69	108
Norton, Henry J. (See Abney, Diton H., assignor.)						
Norton, Horace M., Easton, Pa. Sectional steam-boiler.....	523,231	July 17	1832	461	68	375
Norton, Horace M., Easton, Pa. Sectional steam-boiler.....	524,183	Aug. 7	364	86, 87	68	723
Norton, J. (See Norton and Devine, assignors.)						
Norton, James W., Westfield, N. Y. Cultivator.....	517,231	Mar. 27	2515	590	66	1973
Norton, James W., Washington, D. C. Cooking stove or range.....	518,764	Apr. 24	2305	573	67	465
Norton, John. (See Leek and Norton.)						
Norton, John A., and W. Richards, London, England. Apparatus for supplying cartridges to machine-guns.....	527,342	Oct. 9	1038	263 264	69	216
Norton, Joseph C., Lynn, Mass. Hot-water heating apparatus.....	516,061	Mar. 6	535	124	66	1552

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Norton, Joshua, Jr., Chatham, Canada, assignor to American Sulphite Pulp Company, Boston, Mass. Sulphite-digester.	527,876	Oct. 23	1989	478	69	412
Norton, Lemuel C., and L. A. Devine; said Norton assignor to J. Norton, Council Bluffs, Iowa. Railway switch and signal apparatus.	517,392	Mar. 27	2814	{ 657 658 }	{ 66 }	2031
Norton, Martha M. (See Norton, Gerrit, assignor.)						
Norton, Oliver W. (See Norton, Edwin, assignor.)						
Norton, Oliver W., et al. (See Hodgson, John G., assignor.)						
Norton, Oliver W., et al. (See Leavitt and Hodgson, assignors.)						
Norton, Oliver W., et al. (See Norton and Hodgson, assignors.)						
Norton, Oliver W., et al. (See Norton, Hodgson, and Leavitt, assignors.)						
Norton, Patrick, Jersey City, N. J. Roofing-plate.	527,505	Oct. 16	1364	332	69	282
Norton, Stephen, assignor of one-half to W. H. Rice, Rochester, N. Y. Safety-guard for street-cars.	519,046	May 1	174	42	67	570
Norton, Stephen, and W. H. Rice, Rochester, N. Y. Safety-guard for street-cars.	521,294	June 12	962	228	67	1384
Norton, Wendell P., Torrington, Conn. Drilling-machine.	523,381	Oct. 30	2886	699	69	590
Norton, Wendell P., assignor to Hendey Machine Company, Torrington, Conn. Screw-cutting engine-lathe.	519,924	May 15	1722	{ 422 423 }	{ 67 }	887
Norwell, John J., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Machine for automatically feeding lacing-books to setting devices.	512,210	Jan. 2	797	194	66	151
Norwich Insulated Wire Company. (See McCracken, Edwin D., assignor.)						
Norwood, George, assignor of two-thirds to G. L. Mead and J. S. Richardson, Boston, Mass. Apparatus for leveling the meeting ends of railway-rails.	527,805	Oct. 23	1858	446	69	390
Norwood, John E. (See Travers and Petersen, assignors.)						
Norwood, Joseph. (See Howe, Henry A., assignor.)						
Norwood, Joseph. (See Thomson, Robert, assignor.)						
Noteman, Alonzo, Toledo, Ohio. Fuel-oil.	512,894	Jan. 16	1976	-----	66	401
Nottingham, John. (See Stoddard, Frederick S., assignor.)						
Novel, Augusto A., Jr., Puerto Cabello, Venezuela. Dental plugger.	525,920	Sept. 11	1050	238	68	1354
Nourse, Lucian R., Elgin, Ill. Coating cast-iron with other metals or alloys.	516,551	Mar. 13	1347	-----	66	1720
Nourse, Rufus C., South Framingham, Mass. Incandescent-lamp socket.	515,006	Feb. 27	2685	667	66	1403
Novelty Manufacturing Company. (See Boeck, Charles H., assignor.)						
Noye, William H., Lincoln, Nebr. Brick-kiln.	513,719	Jan. 30	3335	{ 823 824 }	{ 66 }	761
Noyes, Bernice J., assignor to G. W. Gregory, Boston, Mass. Signaling apparatus.	530,236	Dec. 4	287	71	69	1267
Noyes, Horatio J., Ashtabula, Ohio. Hot-air furnace.	523,990	Aug. 7	40	9, 10	68	669
Noyes, Joseph G., and L. Winterhalter, Milford, Conn. Signaling system.	514,128	Feb. 6	236	56, 57	66	899
Noyes, Joseph P., Binghamton, N. Y. Comb.	531,468	Dec. 25	2463	587	69	1712
Noyes, La Verne W., Chicago, Ill. Wind-wheel.	523,842	July 31	2911	726	68	604
Noyes, La Verne W., Chicago, Ill. Windmill.	523,843	July 31	2914	727	68	605
Noyes, La Verne W., Chicago, Ill. Windmill tank tower.	523,864	July 31	2945	734	68	611
Noyes, La Verne W., Chicago, Ill. Press for riveting, &c., metal.	529,565	Nov. 20	1888	449	69	1028
Noyes, La Verne W., Chicago, Ill. Pole-sawing machine.	529,566	Nov. 20	1889	449	69	1029
Ngent, William W. (See Sawyer, Albert A., assignor.)						
Ngent, William W., Chicago, Ill., assignor of one-half to A. A. Sawyer, Gandy, Nebr. Flat-iron rest or holder.	514,492	Feb. 13	966	221	66	1034
Nunamaker, John W., Chicago, Ill. Alarm for watches.	528,790	Nov. 6	473	116	69	732
Nunamaker, John W., assignor of one-fourth to H. L. Hopkins, Chicago, Ill. Escapement for timepieces.	512,054	Jan. 2	537	127	66	103
Nunamaker, John W., assignor of one-fourth to H. L. Hopkins, Chicago, Ill. Watch.	517,882	Apr. 10	759	190	67	161
Nunn, John H. (See Heywood and Nunn.)						
Nutting, Samuel E., Chicago, Ill. Electric heater.	515,693	Feb. 27	2833	705	66	1432
Nutting, Samuel E., Chicago, Ill. Adjustable incandescent-lamp holder.	523,482	July 24	2276	572	68	470
Nye, David B., Cambridge, assignor to Boston Lasting Machine Company, Boston, Mass. Tack-centering guide for tack-driving machines.	513,820	Jan. 30	3478	856	66	789
Nye, Frederick W., Cincinnati, Ohio. Cabinet or wardrobe bedstead.	521,595	June 19	1510	353	67	1502
Nye, George W., Chicago, Ill. Automatic shut-off for grain-elevators.	518,622	Apr. 24	2045	509	67	419
Nye, Merritt M., Rochester, Mich. Bean-picker.	529,687	Nov. 20	2075	496	69	1064
Nystrom, Carl W., Carlstad, Sweden. Sound recording and reproducing attachment for key-instruments.	520,894	June 5	258	61, 62	67	1244
O. S. Kelly Company. (See Maggard, James H., assignor.)						
O. S. Kelly Company. (See Wright, Edward T., assignor.)						
O'Bolger, Thomas, Rochester, N. Y., assignor to C. M. Loring, Minneapolis, Minn. Lasting-machine.	511,906	Jan. 2	306	71	66	59
O'Brien, Charles A. (See Bryce, Andrew, assignor.)						
O'Brien, John. (See Duffner, Lucas, assignor.)						
O'Brien, John, Gracedale, Pa. Brake-shoe.	528,553	Nov. 6	49	13	69	655
O'Brien, Stephen, New York, N. Y. Hanger for steam-pipes.	515,922	Mar. 6	297	70	66	1509
O'Brien, Thomas J., and E. J. Wilson, Chicago, Ill. Bridge-gate.	530,348	Dec. 4	485	120	69	1303
O'Brien, Walter, Brooklyn, N. Y. Arch.	519,340	May 8	735	181	67	694
O'Brien, Walter, Brooklyn, N. Y. Mouthpiece and stem for smoking apparatus.	520,700	May 29	3066	{ 742 743 }	{ 67 }	1166
O'Brien, Walter A., Boston, Mass. Union garment and knitting same.	527,216	Oct. 9	874	213	69	178
O'Byrne, William J., Pontotoc, Ill. Center-plate for car-trucks.	515,246	Feb. 20	2057	518	66	1277
O'Carroll, Patrick, Milwaukee, Wis. Note-indicator.	523,545	July 24	2379	597	68	491
O'Connell, James, New York, and G. Sniffin, Tuckahoe, N. Y. Limekiln.	521,295	June 12	963	228	67	1385
O'Connell, James T. (See Tearney and O'Connell.)						
O'Connell, John, Springfield, Mass. Band-cutter.	513,366	Jan. 23	2713	650	66	611
O'Connell, Joseph J., Chicago, Ill., assignor, by mesne assignments, to American Bell Telephone Company, Boston, Mass. Switch and circuit for telephone-exchanges.	515,531	Feb. 27	2571	{ 636 637 }	{ 66 }	1380
O'Connor, Edward J., assignor, by mesne assignments, to A. Brainard, Hartford, Conn. Bicycle.	519,024	May 1	137	34	67	562
O'Connor, James A., and G. H. Graham; said O'Connor assignor of one-fourth to M. J. Lennon, Rochester, N. Y. Flushing attachment.	531,212	Dec. 18	1996	474	69	1608
O'Connor, John D., et al. (See Bischoff, Frank R., assignor.)						
O'Connor, John J., et al. (See Conekin, Dawson, assignor.)						
O'Connor, Samuel. (See Bachr, George, assignor.)						
O'Donnell & Co., M. J. (See Smith, William C., assignor.)						
O'Donnell, James, assignor of one-fourth to C. Watson, Toronto, Canada. Stone-cutter's bush-hammer.	513,196	Jan. 23	2442	590	66	558
O'Donnell, John, Marshall, Tex. Spark-arrester.	516,940	Mar. 20	2003	472	66	1658
O'Donnell, John P. (See Sykes and O'Donnell.)						
O'Donnell, John P., London, England. Detonating railway-signal.	516,219	Mar. 13	792	185	66	1617
O'Donnell, Thomas L. (See Clark, William A., assignor.)						
O'Dwyer, William H., New York, N. Y. Smoker's tray.	517,528	Apr. 3	180	41	67	37

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O'Gorman, James. (See Bennett, William H., assignor.)						
O'Hara, Adam, Chicago, Ill. Apparatus for dispensing soda-water	512,989	Jan. 16	2129	506	66	423
O'Hara, Henry. (See Wolcott and O'Hara.)						
O'Hara, Henry, assignor of one-half to J. A. Wallace, Melbourne, Victoria. Spark arrester and extinguisher	527,444	Oct. 16	1258	309	63	261
O'Hara, John H., Chicago, Ill. Air-brake apparatus	519,681	May 8	1335	322	67	801
O'Hara, Lewis, Auburn, N. Y. Centrifugal governor	522,382	July 3	355	91	68	71
O'Keefe, Andrew, New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock	525,615	Sept. 4	493	119	68	1243
O'Keefe, Keefe S., San Francisco, Cal. Trunk	531,003	Dec. 18	1614	383	69	1539
O'Lally, Patrick K., Boston, Mass. Sash-holder	515,127	Feb. 20	1886	473	66	1239
O'Leary, Joseph, Memphis, Tenn. Train-pipe stop-cock	517,707	Apr. 3	496	119	67	96
O'Leary, Sarah F. B., Waverly, Kans. Work-box	525,509	Sept. 4	312	77	68	1210
O'Meara, Frederick. (See Peck and O'Meara.)						
O'Meara, Jeremiah, New York, N. Y. Electric heater	516,508	Mar. 13	1283	305	66	1707
O'Meara, Jeremiah, New York, N. Y. Card-table	517,931	Apr. 10	842	211	67	176
O'Meara, Roger E., Cincinnati, Ohio. Hose-coupling	515,788	Mar. 6	100	23	66	1472
O'Neill, Alexander G. (See Forbes and O'Neill.)						
O'Neill, Bernard J. (See McCarten and Dickason, assignors.)						
O'Neill, Daniel, Rochester, N. Y. Apparatus for tapping mains	527,877	Oct. 23	1991	478	69	412
O'Neill, John, New York, N. Y. Autographic telegraph	529,300	Nov. 13	1389	335	69	918
O'Neill, Charles Z., assignor to W. Chapman, New York, N. Y. Street-sweeper	515,501	Feb. 27	2515	623	66	1369
O'Neill, Ellis I. (See Paxton and O'Neill.)						
O'Neill, George A., Boston, Mass. Testing device for electric circuits	523,865	July 31	2946	735	68	611
O'Neill, Henry. (See Bichet and O'Neill.)						
O'Neill, Henry G., assignor of one-half to E. Jewell, Boston, Mass. Electric robe, towel, &c., for heating	530,053	Nov. 27	2735	656	69	1197
O'Neill, John, Plainview, Ill. Exhaust-nozzle for locomotives	516,899	Mar. 20	1931	456	66	1845
O'Neill, John J., Lawrence, Mass. Making spikes	521,571	June 19	1466	343	67	1495
O'Neill, John J., New York, N. Y. Dish-cleaner	527,122	Oct. 9	730	179	69	150
O'Neill, John W. (See Warg and Lindemann, assignors.)						
O'Neill, William, et al. (See Carlinet, John G., assignor.)						
O'Regan, Dennis J. (See Segade and O'Regan.)						
O'Shea, Henry, Johnstown, Pa., assignor, by mesne assignments, to Johnson Company, of Pennsylvania. Railway-rail chair	520,860	June 5	194	43	67	1232
O'Shea, Henry, assignor to Johnson Company, Johnstown, Pa. Railway-frog	520,861	June 5	195	43	67	1232
O'Shea, Henry, assignor to Johnson Company, Johnstown, Pa. Tongue-switch	530,201	Dec. 4	218	55	69	1255
O'Shea, John S. (See Wilson, William T., assignor.)						
O'Shea, Timothy, Chicago, Ill. Building construction	522,613	July 10	762	192	68	164
O'Sullivan, Michael J., Baltimore, Md. Electric-railway-crossing signal	514,566	Feb. 13	963	249	66	1056
O'Sullivan, Michael J., Baltimore, Md., assignor to T. Janney, Jr., & Co. Fire-alarm-telegraph system	513,526	Jan. 30	2993	739	66	700
Oakes, William L., Decatur, Ill. Elevator and dump	521,888	June 26	2003	483	67	1614
Oakey, Edward W., Chatfield, Minn. Wrench and straightener for thrashing-machine teeth	518,328	Apr. 17	1537	383	67	313
Oakley, George W., Manchester, N. J. Car-fender	529,460	Nov. 20	1702	406	69	995
Oakley, James O., Montreal, Canada. Extensible structure for use as a bridge, scaffold, tower, &c.	530,120	Dec. 4	78	21, 22	69	1229
Oakley, Walter. (See Johnson, Hall, Oakley, and Currey.)						
Oat, Alfred A., Sr., Philadelphia, Pa. Concealed hinge	521,528	June 19	1397	323	67	1482
Oat, Alfred A., Sr., Philadelphia, Pa. Self-closing concealed hinge	521,546	June 19	1422	330	67	1486
Ober, John F., New Orleans, La. Railway-switch	524,487	Aug. 14	901	222	68	844
Ober, Reuben H., Garrettsville, Ohio. Revolving bookcase and display-cabinet	514,270	Feb. 6	507	125	66	949
Oberbeck, George, Jersey City, N. J., assignor to Eagle Pencil Company, Jersey City, N. J., and New York, N. Y. Calipers	530,713	Dec. 11	1130	274	69	1435
Oberdorfer, Jacob T., Delmount, Ohio. Variable gear for sawmills	527,343	Oct. 9	1091	265	69	217
Oberländer, Albert, Berlin, Germany. Extension-table	531,211	Dec. 18	1994	473	69	1608
Obermann, August W., Pittsburg, Pa. Culinary vessel	528,382	Oct. 30	2390	700	69	591
Oberschlesische Eisen Industrie Actien-Gesellschaft für Bergbau und Hüttenbetrieb. (See Martin, Edouard, assignor.)						
Ohlasser, Alfred. (See Therye and Ohlasser.) (Reissue.)						
Oddy, Edwin, J. Crossley, E. and A. Smith, Cleckheaton, England. Apparatus for hardening and tempering steel wire	517,527	Apr. 3	180	40	67	37
Odell, Albert P., Bradford, Pa. Switch	516,105	Mar. 6	593	139	66	1564
Odell, Charles. (See Coleman, Clyde J., assignor.)						
Odell, George W., Butte, Mont. Composition for silver-plating	514,958	Feb. 20	1624	-----	66	1193
Odell, Henry C., Franklin, Iowa. Seed-potato cutter	523,750	July 31	2748	682	68	574
Odell, James M. (See Carleton and Odell.)						
Oder, Robert S., Kansas City, Mo. Method of and machine for feeding paper	519,341	May 8	737	181	67	694
Odewahn, Arthur, and F. Reichart, Louisville, Ky. Well-digger	521,175	June 12	753	177	67	1347
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Card frame or mount	522,484	July 3	527	134	68	105
Odgers, Matthew, assignor to Henry Diston & Sons, Incorporated, Philadelphia, Pa. Metal-saw	530,793	Dec. 11	1262	305	69	1461
Odner, Willgodt T., St. Petersburg, Russia. Calculating apparatus	514,725	Feb. 13	1259	314	66	1108
Odin, Frank A., Syracuse, N. Y. Vegetable cooking and canning machine	528,680	Nov. 6	287	70	69	693
Oehler, Firm of K. (See Kallab, Ferdinand V., assignor.)						
Oehler, Firm of K. (See Rudolph, Christian, assignor.)						
Oehlmann, Emil H. C., Berlin, Germany. Automatic regulator for valves, &c.	515,787	Mar. 6	99	23	66	1472
Oesterlein, Wilhelm, Cincinnati, Ohio. Clutch	515,091	Feb. 20	1825	460	66	1228
Oesterreich, Wilhelm, Berlin, Germany. Telephone system	530,598	Dec. 11	939	230	69	1403
Oettinger, Louis, Berlin, and M. Schreiber, Briesen, Germany. Glass brick and manufacture thereof	523,152	July 17	1692	423	68	350
Oetzmann, Arthur S., assignor to Patent Inlaid Linoleum Company, Limited, London, England. Machine for the manufacture of coverings for floors or other surfaces	524,606	Aug. 14	1088	268	68	878

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Ofeldt, August W., Jersey City, N. J., assignor to E. R. Grant, New York, N. Y. Multi- ple-cylinder steam-engine	513,650	Jan. 30	3219	{ 790 791	{ 66 69	739
Offerle, Jacob B., Warren, Pa. Ball-caster	523,791	Nov. 6	475	116	69	732
Offrell, Olof, Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Alternating-current motor	520,800	June 5	76	16, 17	67	1211
Offrell, Olof, Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Alternating-current regulator	521,666	June 19	1626	381	67	1524
Ogden, Bayse N. (See Ogden, Otto G., assignor.)						
Ogden, Herman B., Brooklyn, N. Y. Marine velocipede	524,209	Aug. 7	416	98	68	737
Ogden, Herman B., Brooklyn, N. Y. Car-feeder	527,715	Oct. 16	1701	409	69	344
Ogden, James H., Camden, N. J. Cigar-mold	530,794	Dec. 11	1263	305	69	1461
Ogden, John W., Brooklyn, N. Y. Valve-operating mechanism	515,247	Feb. 20	2038	513	66	1277
Ogden, Otto G., assignor of one-half to B. N. Ogden, Louisville, Ky. Car-coupling	528,283	Oct. 30	2891	760	69	591
Ogden, Walter, Syracuse, N. Y. Garment-supporter	517,652	Apr. 3	414	100	67	80
Ogden, William J., Baltimore, Md. Safety car-fender	515,157	Feb. 20	1939	425	66	1249
Ogilvie, David, Elko, Nev. Hay-elevating derrick	524,862	Aug. 21	1530	374	68	971
Ogilvie, William H. (See Maybe, Peter J., assignor.)						
Ogle, Alfred N., and C. M. Magnuson, Two Harbors, Minn. Steam-engine	519,966	May 15	1790	{ 439 440	{ 67 68	900
Ogle, Charles W. and W. H., Centerville, Iowa. Slate-pencil sharpener	524,557	Aug. 14	1022	252	68	865
Ogle, Francis M., and C. G. Fields, Marceline, Mo. Sickle-grinder	512,740	Jan. 16	1669	{ 400 401	{ 66 67	343
Ogle, John W., Arcadia, Ill. Mechanism for shocking cornstalks	521,088	June 5	600	142	67	1305
Ogle, Percy J., London, England. Wrapper or envelope	519,153	May 1	394	95	67	613
Ogle, Wesley H. (See Ogle, Charles W. and W. H.)						
Oglesby, Jerrold E., Ladonia, Tex. Saw gummer or sharpener	529,299	Nov. 13	1388	334	69	918
Ogram, Thomas E., Washington, D. C. Apothecary's graduate	524,766	Aug. 21	1370	333	68	942
Ogram, Thomas E., and H. L. E. Johnson, Washington, D. C. Pin attachment for pencil-tips. Ogram, William, Birmingham, Ala. Monnmnt	523,232	July 17	1834	462	68	376
Ohmer, William, Birmingham, Ala. Monnmnt	525,026	Aug. 28	1828	445	68	1041
Oheimb, Freda von, Hanover, Germany. Convertible or combined bath-tub and traveling- bag	530,599	Dec. 11	941	231	69	1403
Ohio Brass Company. (See Wood, Montraville M., assignor.)						
Ohio Fence Company. (See Rogers, Timothy, assignor.)						
Ohio Rake Company. (See Bell and Stewart, assignors.)						
Ohl, George A. (See Vale and Ohl.)						
Ohlsson, Olof, Newark, N. J. Centrifugal separating-machine	521,730	June 19	1734	412	67	1546
Ohlsson, Olof, Newark, N. J. Churn	523,681	Nov. 6	259	70	69	698
Ohlsson, Olof, Newark, N. J. Centrifugal separating-machine	523,683	Nov. 6	293	71, 72	69	699
Ohlsson, Olof, Newark, N. J., assignor to United States Butter Extractor Company of New Jersey, of New Jersey. Centrifugal creamer	519,070	May 1	225	53	67	579
Ohlsson, Olof, Newark, N. J., assignor to United States Butter Extractor Company, of New Jersey. Centrifugal butter-extractor	523,682	Nov. 6	291	71	69	698
Ohlsson, Olof, Newark, N. J., assignor to United States Butter Extractor Company, of New Jersey. Centrifugal creamer	530,447	Dec. 4	638	159	69	1332
Ohmer, John F., assignor to M. Ohmer & Sons Company, Dayton, Ohio. Case or cabinet	517,477	Apr. 3	103	23	67	22
Oie, John, Marshall, Tex. Excavator	519,342	May 8	743	{ 183 184	{ 67 68	695
Okun, Moses S., New York, assignor to T. F. Benrie, Clifton, N. Y. Electric-arc lamp	522,680	July 10	860	214	68	182
Olán, Johan W. T., New York, N. Y. Electric-current recorder	518,534	Apr. 17	1902	471	67	379
Olcese, Charles F., Chicago, Ill. Window-sash	530,714	Dec. 11	1132	275	69	1435
Olcott, William W. (See Brown and Olcott.)						
Oldendorph, Henry, Belleville, Ill. Plow	523,107	Oct. 23	2413	584	69	490
Oldfield, Benjamin H. (See Miller and Oldfield.)						
Oldfield, Benjamin H. (See Scott, William, assignor.)						
Oldfield, Joseph, Toronto, Canada. Duplicating check-book	517,359	Mar. 27	2725	{ 640 641	{ 66 67	2014
Oldham, Archibald H. (See Ashworth and Oldham.)						
Oldham, James E. (See Bold and Oldham.)						
Olds, Ransom E. and W. S., Lansing, Mich. Multiplex vapor-burner	521,622	June 19	1555	363	67	1510
Olds, Wallace S. (See Olds, Ransom E. and W. S.)						
Offenbittel, August. (See Halsey, Fred D., assignor.)						
Oligny, Jean D., St. Henri, assignor of one-half to C. F. Beauchemin & Cie., Montreal, Can- ada. Garbage and sawdust fuel	524,488	Aug. 14	902	.....	68	844
Olin, Fred C., Dunkirk, N. Y. Gas-engine	525,358	Sept. 4	59	16, 17	68	1162
Oliphant, Helen. (See Oliphant, William, assignor.)						
Oliphant, William, assignor to H. Oliphant, Paterson, N. J. Filtering apparatus	524,835	Aug. 21	1489	364	68	964
Oliva, Frank A., Alton, Kans. Band-cutter and feeder for thrashing-machines	520,216	May 22	2247	{ 547 548	{ 67 67	997
Oliver, Elam A., Belleville, Wis. Band-tightener	519,507	May 8	1023	247	67	745
Oliver, Francis M., et al. (See Gilling, Frank E., assignor.)						
Oliver, George, Chicago, Ill. Valve	521,040	June 5	518	122	67	1291
Oliver, Henry and E. Scott, Allegheny, Pa. Apparatus for handling billets, ingots, &c.	521,474	June 19	1298	302	67	1464
Oliver, Henry J., Cleveland, Ohio. Window-casing	531,326	Dec. 25	2206	{ 528 529	{ 69 69	1663
Oliver Iron and Steel Company. (See Alker, John H., assignor.)						
Oliver Iron and Steel Company. (See Smith and Price, assignors.)						
Oliver, James C., et al. (See Savill, Edward, assignor.)						
Oliver, James E., Kansas City, Mo. Work-guiding device for sewing-machines	518,623	Apr. 24	2047	509	67	420
Oliver, John R., assignor of one-half to W. H. Oliver, Portage, Mich. Egg-crate	518,893	Apr. 24	2523	623	67	506
Oliver, Joseph W., Grand Rapids, Mich. Trimming-machine	519,199	May 1	463	113	67	627
Oliver, Joseph W., Grand Rapids, Mich. Miter-cutting machine	526,634	Sept. 25	2269	543	68	1607
Oliver, Thomas, State Centre, assignor of one-third to C. J. Peterson, Dubuque, Iowa. Type-writing machine	523,424	Oct. 30	3068	{ 744 745	{ 69 69	623
Oliver, Thomas T. (See Guillaume, Alfred, assignor.)						
Oliver, William, Alamo, Mich. Apparatus for growing plants	523,991	Aug. 7	42	10	68	669
Oliver, William H. (See Oliver, John R., assignor.)						
Olivera y Martinez, Eligio, assignor of one-half to E. M. Acevedo, Havana, Cuba. Cane- planter	513,807	Jan. 30	3459	852	66	785
Olivetti, Camille, Ivrea, Italy. Commutator for electric machines	516,447	Mar. 13	1175	{ 281 282	{ 66 66	1688
Ollagnier, Claude J., Tours, France. Machine for pulping apples, pears, &c.	531,058	Dec. 18	1707	406	69	1556
Oller, William J., Delaware, Ohio. Smooth-wire fence	514,959	Feb. 20	1625	408	66	1193
Olumstead, Oren, Sutton, Canada. Car-coupling	527,392	Oct. 9	1174	288	69	233
Olsen, Henrik, Aalesund, Norway. Chamfering and crozing machine	525,510	Sept. 4	314	77, 78	68	1210

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Olsen, Johan L. W., Copenhagen, Denmark. Apparatus for heating ovens by gas.....	518,624	Apr. 24	2050	510	67	420
Olsen, K. G., <i>et al.</i> (See Lilleberg, Charles L., assignor.)						
Olsen, Ole, Oakland, assignor of one-half to C. Greene, San Francisco, Cal. Hair-clipping machine.....	511,966	Jan. 2	400	93	66	76
Olsen, Ole, Oakland, assignor to United States Hair Clipper Manufacturing Company, San Francisco, Cal. Hair-clipping machine.....	522,765	July 10	1037	256	68	211
Olson, Andrew B., Kansas City, Mo. Apparatus for picking up pins, &c.....	531,384	Dec. 25	2311	551	69	1683
Olson, Bernard G., Chinook, Mont. Igniting device for gas or lamp burners or oil or gas stoves.....	512,315	Jan. 9	966	236	66	195
Olson, Charles, Casnovia, Mich. Switch attachment.....	530,448	Dec. 4	640	159	69	1333
Olson, Erik, Neihart, Mont. Spirit-level.....	516,898	Mar. 20	1930	{ 455 } 456	66	1845
Olson, Henry E., Chicago, Ill. Automatic car-brake.....	531,131	Dec. 18	1843	437	69	1581
Olson, John, Two Harbors, Minn. Valve-stem packing.....	515,055	Feb. 20	1775	448	66	1218
Olson, John, Two Harbors, Minn. Track-clearer.....	517,478	Apr. 3	105	23, 24	67	22
Olson, John, Two Harbors, Minn. Axle-lubricator.....	518,157	Apr. 10	1228	308	67	240
Olson, John, Two Harbors, Minn. Fluid-pressure regulator.....	530,200	Dec. 4	216	54	69	1255
Olson, Nils. (See Hansen, Harry, assignor.)						
Olsson, Olaus, assignor of one-half to J. A. Johanson, Brooklyn, N. Y. Game apparatus.....	529,802	Nov. 27	2265	540	69	1107
Omawake, Jacob H., assignor of one-half to J. W. Walters, Iler, Ohio. Cutter for clay-product machines.....	531,213	Dec. 18	1998	475	69	1609
Oncken, Gustav A., Berlin, Germany. Manufacture of veneers and apparatus therefor.....	512,211	Jan. 2	799	194	66	152
Onderdonk, William, New York, N. Y. Preparing cereals.....	517,479	Apr. 3	107	24	67	23
Onderdonk, William, New York, N. Y. Preparing cereals.....	526,256	Sept. 18	1623	381	68	1472
Oneider Community. (See Collins, Jerrey W., assignor.)						
Oneill, Edward, Mitchell's Mills, Pa. Stump-extractor.....	515,158	Feb. 20	1941	485	66	1250
Oneill, Fred, assignor to himself, E. P. Whitney, and G. E. Harpham, Redlands, Cal. Sewing-machine.....	531,059	Dec. 18	1709	406	69	1557
Ongley, Charles E., assignor to Ongley Electric Company, New York, N. Y. Electric valve-controller.....	512,316	Jan. 9	968	237	66	196
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Apparatus to control the strokes of piston-rods electrically.....	513,051	Jan. 16	2220	533	66	446
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Electric search-light.....	513,052	Jan. 16	2222	533	66	446
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Electrically-controlled whistle and valve for operating same.....	522,694	July 10	885	219	68	186
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Electric-arc lamp.....	528,684	Nov. 6	295	72, 73	69	699
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Whistle-signal recorder.....	530,121	Dec. 4	81	22	69	1230
Ongley, Charles E., assignor to G. J. Schoeffel, New York, N. Y. Signal apparatus.....	530,122	Dec. 4	82	22	69	1230
Ongley Electric Company. (See Ongley, Charles E., assignor.)						
Onsgord, Christen C., West Duluth, Minn. Brake.....	528,019	Oct. 23	2261	{ 545 } 546	69	462
Opel, Traugott, Halle-on-the-Saale, Germany. Folding bed.....	529,944	Nov. 27	2511	{ 604 } 605	69	1152
Opera Glass Supply Company. (See Patterson, James W., assignor.)						
Oppenheimer, Milton E., New York, N. Y. Finger-ring.....	512,839	Jan. 16	1872	443	66	381
Oppenheimer, Zacharias A., New York, N. Y. Jewelry-setting.....	529,184	Nov. 13	1190	226	69	882
Oppermann, Martin A., Courcelles, Belgium. Glass-polishing machine.....	513,618	Jan. 30	3158	775	66	729
Oppl, Valentin, Cleveland, Ohio. Means for transporting beer.....	527,123	Oct. 9	732	{ 179 } 180	69	151
Oppl, Valentin, Cleveland, Ohio. Apparatus for bottling beer.....	530,600	Dec. 11	942	{ 231 } 232	69	1403
Orb, William, Columbus, Ohio. Seal-lock.....	529,945	Nov. 27	2512	605	69	1153
Orcutt, David W., Binghamton, N. Y. Rope-clutch.....	520,570	May 29	2-36	685	67	1123
Orcutt, Edward L., Somerville, Mass. Electric safety appliance for railways.....	531,214	Dec. 18	2001	475	69	1609
Orcutt, Wesley G., assignor of one-half to H. S. Brown, Ashland, Me. Ratchet-wrench.....	528,044	Nov. 6	225	56	69	687
Orcutt, William D., Melrose, Mass. Device for securing cutters or other articles to rotary shafts.....	530,285	Dec. 4	373	91	69	1283
Ordway, Arthur D., Newburyport, Mass. Oven.....	513,821	Jan. 30	3479	857	66	789
Ordway, Lucius P. (See Benjamin, Fredrick L., assignor.)						
Organ, Joseph H. (See Bosley and Organ.)						
Orgill, Thomas. (See Stancliff, Edwin, assignor.)						
Orman, W. A. (See Johnston, Preston T., assignor.)						
Orme, George L. (See Back, James S., assignor.)						
Ormerod, George C., Asbury Park, N. J. Cable-switch.....	529,530	Nov. 20	1831	{ 435 } 436	69	1018
Ormerod, George C., and J. H. Charles, Asbury Park, N. J. Cable-grip.....	528,384	Oct. 30	2893	700	69	591
Ormonist, Robert B., Winnipeg, Canada. Planter.....	515,159	Feb. 20	1942	486	66	1250
Ormsby, Frank E., Chicago, Ill. Astronomical chart.....	531,060	Dec. 18	1709	406	69	1557
Ormsby, John W., Milwaukee, Wis. Tent.....	514,726	Feb. 13	1261	315	66	1108
Orpen, William H., Jr., Brooklyn, N. Y. Electric bell-alarm.....	514,960	Feb. 20	1626	408	66	1193
Orr, Alexander. (See Butler, Thomas C., assignor.)						
Orr, David G., and C. E. Thomas, Syracuse, N. Y. Soldering-tool.....	520,701	May 29	3068	743	67	1166
Orr, James C., Winnipeg, Canada. Machine for bending pipe.....	521,417	June 12	1176	{ 279 } 280	67	1427
Orr, John A., Florenville, La. Railway-tie bower.....	517,014	Mar. 20	2121	501	66	1881
Orr, Ora, Westport, Cal. Combined child's carriage and cradle.....	530,449	Dec. 4	641	160	69	1333
Orr, Robert, Brooklyn, N. Y. Door-check.....	515,923	Mar. 6	298	70, 71	66	1509
Orr, William A., and B. S. Reynolds, Scranton, Pa. Wheel.....	523,150	July 17	1690	423	68	350
Ort, Jacob, Wahoo, Nebr. Window.....	529,134	Nov. 13	1096	264	69	866
Ortega, Manuel V., Mexico, Mexico. Treating gold and silver ore.....	512,563	Jan. 9	1386	.....	66	274
Ortega, Ricardo, Ciudad Porfirio Diaz, Mexico. Harness.....	527,344	Oct. 9	1092	265	69	217
Ortega, Ricardo, Ciudad Porfirio Diaz, Mexico. Litter.....	529,301	Nov. 13	1402	336	69	921
Orth, Alfred, Lomnitz, Germany. Collapsible box.....	518,270	Apr. 17	1442	360	67	296
Orth, Charles A., Trenton, N. J. Telephone-index.....	531,556	Dec. 25	2610	{ 624 } 625	69	1741
Orth, Ludwig von, Berlin, Germany. Electric synchronizer for clocks.....	522,724	July 10	951	{ 236 } 237	68	197
Orthwein, Charles F. (See Wagemann, Hermann O. C. E., assignor.)						
Ortloff, Julius T. O., Heidelberg, Germany. Book-stapling machine.....	512,741	Jan. 16	1670	401	66	343
Ortloff, Julius T. O., Heidelberg, Germany. Sewing books.....	529,079	Nov. 13	1008	243	69	849
Orton, Lyman O., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Lubricator.....	530,715	Dec. 11	1134	275	69	1436
Orvis, John J., Elmira, N. Y., assignor of one-half to C. E. Post, San Francisco, Cal. Fire-alarm.....	523,003	July 17	1426	356	68	300

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Orvis, Orel D., Chicago, Ill. Steam-boiler furnace.....	521,475	June 19	1301	303	67	1465
Orvis, Orel D., Chicago, Ill. Steam-boiler furnace.....	521,863	June 26	1963	{ 474 475 }	67	1605
Orvis, Orel D., Chicago, Ill. Steam-boiler furnace.....	526,048	Sept. 18	1261	292	62	1406
Orvis, Orland D., Chicago, Ill. Steam-boiler furnace.....	524,029	Aug. 7	101	22	62	681
Osborn, Albert S., Rochester, N. Y. Trolley-catcher.....	528,685	Nov. 6	297	73	69	709
Osborn, Francis M., Portchester, N. Y. Dental apparatus.....	525,816	Sept. 11	863	197	62	1321
Osborn, Heman M., Calumet, Mich. Packing for pistons of rock-drills.....	520,448	May 29	2626	636	67	1035
Osborn, Winfield S., Gilboa, Ind. Corn-harvester.....	526,197	Sept. 18	1524	{ 357 358 }	68	1452
Osborne, Grant C., <i>et al.</i> (See Savage, Charles G., assignor.)						
Osborne, John W., Washington, D. C., assignor of one-third to C. Edelheim, Philadelphia, Pa. Printer's chase.....	516,106	Mar. 6	597	140	66	1564
Osborne, Thomas J. (See Goodrich, Charles E., assignor.)						
Osborne, Thomas J. (See Werner, August, assignor.)						
Osgood, Bennett, deceased, Pender, Nebr.; M. J. Osgood, administratrix. Harvester.....	516,941	Mar. 20	2004	{ 472 473 }	66	1858
Osgood, Martha J., administratrix. (See Osgood, Bennett.)						
Osgood, William N. (See Manley, Horace A., assignor.)						
Osmer, William H., St. Louis, Mo. Washboard.....	521,948	Aug. 21	1671	409	68	995
Osse, Charles, Baltimore, Md. Adjustable garment-pattern.....	522,800	July 10	1083	268	62	221
Ostberg, Nils P., Lund, Sweden. Stone-dressing machine.....	512,317	Jan. 9	970	{ 237 238 }	66	196
Östberg, Petter A. (See Christianson, Knut K. A., assignor.)						
Osterloh, John. (See Jackson and Osterloh.)						
Ostermeyer, William, St. Louis, Mo. Garbage-vault.....	525,616	Sept. 4	494	119	68	1243
Ostrander, Willis H., San Francisco, Cal. Magazine-gun.....	531,132	Dec. 18	1845	{ 437 438 }	69	1582
Oswald, Mathias. (See Ferguson, George C., assignor.)						
Oswald, Phillip, assignor of one-half to H. A. Wells, Syracuse, N. Y. Handle.....	521,217	June 12	824	193	67	1360
Oswald, William J., San José, Cal. Faucet.....	519,508	May 8	1024	248	67	745
Oyay, David N., assignor to J. A. Jeffrey, Columbus, Ohio. Conductor-support and insulator.....	526,408	Sept. 25	2266	491	68	1568
Oyay, David N., assignor to J. A. Jeffrey, Columbus, Ohio. Trolley for electrical conductors.....	526,580	Sept. 25	2183	522	68	1590
Otis Brothers & Company. (See Baldwin, Cyrus W., assignor.)						
Otis Brothers & Company. (See Ihlder, John D., assignor.)						
Otis Brothers & Company. (See Otis, Norton P., assignor.)						
Otis Brothers & Company. (See Southgate, Louis W., assignor.)						
Otis, Charles, New York, N. Y. Valve-operating device.....	528,385	Oct. 30	2895	761	69	591
Otis, Charles H. (See McKay, Neil, assignor.)						
Otis, Norton P., Yonkers, N. Y. Guide-sheave for elevators.....	522,429	July 3	432	114	68	90
Otis, Norton P., Yonkers, assignor to Otis Brothers & Company, New York, N. Y. Electric elevator.....	513,131	Jan. 23	2346	{ 565 566 }	66	540
Otis, Norton P., Yonkers, N. Y., assignor to National Company, Chicago, Ill. Elevator.....	531,595	Dec. 25	2673	642	69	1753
Otis, Philip A., assignor of one-half to Northampton Emery Wheel Company, Northampton, Mass. Cutlery-grinder.....	515,092	Feb. 20	1827	461	66	1229
Otis, Philip A., assignor of one-half to Northampton Emery Wheel Company, Northampton, Mass. Cutlery-grinder.....	515,093	Feb. 20	1829	{ 461 462 }	66	1229
Ott, Henry, Ottawa, Kans. Fountain-brush.....	520,241	May 22	2290	536	67	1005
Ott, John, St. Louis, Mo. Sewing-machine.....	524,558	Aug. 14	1023	252	68	865
Ott, John, St. Louis, Mo. Sewing-machine.....	524,559	Aug. 14	1025	253	68	866
Ott, Philipp. (See Duisberg and Ott.)						
Otte, Fritz, Altona, Germany. Screw-propeller.....	517,233	Mar. 27	2517	591	66	1973
Otten, Henry C., and A. Kathmann, Quincy, Ill. Cultivator-plow.....	528,792	Nov. 6	477	116	69	733
Ottenheimer, Abraham, Little Rock, Ark. Box-fastener.....	512,517	Jan. 9	1321	319	66	261
Otto, Carl. (See Otto, Franz and C.)						
Otto, Carl A., Dresden, Germany. Apparatus for roasting coffee, cocoa, &c.....	517,189	Mar. 27	2451	577	66	1960
Otto, Franz and C., Zerbst, Germany. Curtain-roller.....	520,008	May 15	1863	456	67	912
Otto, Gustav, Jersey City, N. J. Spring-motor for music-boxes.....	525,717	Sept. 11	690	160	68	1291
Otto & Sons, F. G. (See Langfelder, Henry, assignor.)						
Ouram, Charles E. (See Kirkbride and Ouram.)						
Ousey, Louisa, South Wimbledon, England. Hair-pin.....	523,904	July 31	3012	749	68	623
Oslevy, George W., Jr., San José, Cal. Window-platform.....	527,445	Oct. 16	1259	399	69	261
Outerbridge, Alexander E., Jr., assignor to Queen & Company, Philadelphia, Pa. Chemical-flask.....	514,426	Feb. 6	742	189	68	993
Ovenshire, Elijah A., Detroit, Mich. Harrow-tooth fastener.....	514,836	Feb. 13	1435	341	66	1142
Overhiser, Charles F., Williamsport, Pa. Machine for shaping wood articles.....	529,505	Nov. 20	1782	{ 424 425 }	69	1009
Overholser, John, Cottage Grove, Oreg. Governor attachment for separators.....	515,358	Feb. 27	2293	569	66	1328
Overholtzer, David J., Spadra, Cal. Baling-press feeder.....	516,727	Mar. 20	1663	394	66	1793
Overman, Joseph S., and W. T. Woolston, Canton, Ohio. Air-brush.....	528,686	Nov. 6	298	73	69	700
Overman Wheel Company. (See Hadley, Charles E., assignor.)						
Overman Wheel Company. (See Pepper, Charles L., assignor.)						
Overman Wheel Company. (See Woodward, Charles E. W., assignor.)						
Overn, Frank, <i>et al.</i> (See Parker, John E., assignor.)						
Overn, Frank, assignor of two-thirds to J. Overn, Jr., and H. Pettit, Philadelphia, Pa. Embedding wire-netting in glass.....	516,920	Mar. 13	794	185	66	1617
Overn, Frank, assignor of two-thirds to J. Overn, Jr., and H. Pettit, Philadelphia, Pa. Machine for embedding wire-netting in glass.....	516,921	Mar. 13	796	186	66	1617
Overn, John, Jr., <i>et al.</i> (See Overn, Frank, assignor.)						
Overn, John, Jr., <i>et al.</i> (See Parker, John E., assignor.)						
Oversstreet, Jesse T., <i>et al.</i> (See Dobbins, Douglas, assignor.)						
Overton, Daniel F. and W. E. Solomon's, Md. Apparatus for extracting oil from fish.....	520,242	May 22	2292	556	67	1005
Overton, Daniel F. and W. E. Solomon's, Md. Apparatus for drying fish-refuse.....	520,269	May 22	2339	567	67	1014
Overton, Frank C., Brooklyn, N. Y. Necktie.....	514,961	Feb. 20	1628	408	66	1193
Overton, Willis E. (See Overton, Daniel F. and W. E.)						
Oviatt, Solomon E., assignor to Oviatt Wagon Company, Lansing, Mich. Sleigh.....	519,004	May 1	107	26	67	556
Oviatt Wagon Company. (See Oviatt, Solomon E., assignor.)						
Owen, Frederick D., Washington, D. C. Bearing for velocipedes.....	519,269	May 1	586	143	67	651
Owen, Henry A., assignor to Whitin Machine Works, Whitinsville, Mass. Spindle-support.....	528,020	Oct. 23	2262	546	69	462
Owen, John W. (See Roberts and Owen.)						
Owen, Thomas, assignor of two-thirds to L. W. Martyr and H. Eldridge, Houston, Tex. Combined shoot-board and squaring-box.....	531,215	Dec. 18	2006	476	69	1610
Owen, William H., Springfield, Ohio. Metal-working tool.....	513,954	Jan. 30	3086	907	66	831

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Owens, Bettie R., Denver, Colo. Toilet vaporizing apparatus for the complexion.....	515,607	Feb. 27	2687	{ 667 668 }	66	1404
Owens, Michael J., Toledo, Ohio. Device for removing moil from blowpipes.....	515,838	Mar. 6	169	41	66	1485
Owens, W. H. (See Payne, Thomas F., assignor.)						
Owens, William W., Peterborough, Canada. Nut-lock.....	527,154	Oct. 9	781	190	69	160
Oxygen Producing Syndicate. (See Fanta, Ferdinand, assignor.)						
Ozias, Orange O., Dayton, Ohio. Price and weighing scale.....	527,124	Oct. 9	734	180	69	151
Ozias, Orange O., Dayton, Ohio. Price-scale.....	527,125	Oct. 9	738	181	69	152
P. & F. Corbin. (See Case, Cromwell O., assignor.)						
P. P. Mast & Company. (See Dodson, Harry E., assignor.)						
P'Pool, Frank E., Brandon, Tex. Kitchen-cabinet.....	516,402	Mar. 13	1097	261 283	66	1672
Paasch, Peter W. A., Hamburg, Germany. Adjustable reflector.....	519,589	May 8	1178	{ 284 284 }	67	774
Pace, Jefferson D., Shreveport, La. Brick-machine.....	520,023	May 15	1893	462	67	918
Pacific Asphaltum Pipe Company. (See Tipson, William A., assignor.)						
Pacific Can Company. (See Gould, James, Jr., assignor.)						
Pacific Labeling Company. (See Frazer, Charles R., assignor.)						
Pack, John F., assignor to A. D. McMaster and H. C. Albee, Rochester, N. Y. Cooking-vessel.....	523,643	July 24	2538	637	68	521
Packard, James W., Warren, Ohio. Electrical converter.....	527,070	Oct. 9	646	157	69	136
Packard, James W., Warren, Ohio. Electrical fuse-box.....	527,071	Oct. 9	647	157	69	136
Packard, Jerome W., Malden, Mass. Saw-set.....	528,554	Nov. 6	50	13	69	655
Packard, James W., assignor of one-half to Bouvé, Crawford & Company Corporation, Brockton, Mass. Blank for box-toes and counters.....	516,832	Mar. 20	1823	431	66	1824
Packer, Alonzo C., Pittsburg, Pa. Car-coupling.....	530,795	Dec. 11	1264	{ 305 306 }	69	1461
Packer, Garret Q., <i>et al.</i> (See Vegiard, James T., assignor.)						
Packer, George W., Rock Falls, assignor to Keystone Manufacturing Company, Stirling, Ill. Corn-sheller.....	522,669	July 10	842	210	68	179
Packer, George W., Rock Falls, assignor to Keystone Manufacturing Company, Stirling, Ill. Corn-planter.....	525,359	Sept. 4	62	17, 18	68	1163
Packer, George W., Rock Falls, assignor to Keystone Manufacturing Company, Stirling, Ill. Corn-harvester.....	525,360	Sept. 4	67	18, 19	68	1163
Packer, George W., Rock Falls, assignor to Keystone Manufacturing Company, Stirling, Ill. Disk harrow.....	530,054	Nov. 27	2736	656	69	1197
Packer, John F., La Grange, Ill. Cultivator.....	529,135	Nov. 13	1096	{ 264 265 }	69	866
Packer, John F., La Grange, Ill. Cultivator.....	529,136	Nov. 13	1098	{ 265 266 }	69	867
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Seeder.....	522,329	July 3	263	70	68	53
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Seeding-machine.....	527,621	Oct. 16	1551	376	69	316
Packham, Frank R., assignor to Superior Drill Company, Springfield, Ohio. Seeding-machine.....	530,962	Dec. 18	1538	{ 364 365 }	69	1525
Packham, Lewes C., and C. L. Cline, Detroit, Mich. Stilt-step.....	515,839	Mar. 6	170	41	66	1485
Paddock, George A., <i>et al.</i> (See Locke, Fred M., assignor.)						
Paddock, Harvlin, St. Johnsbury, Vt., assignor to E. & T. Fairbanks & Company, of Vermont. Weighing-scale.....	521,623	June 19	1556	363	67	1510
Paddock, Harvlin, assignor to E. & T. Fairbanks Company, St. Johnsbury, Vt. Check-rod for platform-scales.....	524,266	Aug. 7	498	115	68	751
Paddock, Harvlin, and O. B. Johnson, St. Johnsbury, Vt., assignors to E. & T. Fairbanks & Company, of Vermont. Computing-scale.....	528,793	Nov. 6	478	117	69	733
Paddon, Edwin F., London, England. Combustion apparatus.....	523,233	July 17	1836	462	68	376
Paden, Samuel K., Petersburg, Ohio. Fifth-wheel.....	525,995	Sept. 11	1173	267	68	1377
Padgett, Thomas B., Dallas, Tex. Child's seat for vehicles.....	519,731	May 15	1418	342	67	830
Paetow, Eugen C., New York, N. Y. Refrigerator-leak alarm.....	531,557	Dec. 25	2612	625	69	1741
Page, Albert A. (See Wright and Page.)						
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Spring-hinge.....	525,860	Sept. 11	960	215	68	1338
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Spring-hinge.....	525,861	Sept. 11	963	215	68	1338
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Bicycle-bell.....	525,862	Sept. 11	964	216	68	1338
Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Spring-hinge.....	526,162	Sept. 18	1458	341	68	1442
Page, Albert G., assignor of one twenty-fourth to F. H. Johnson, San Francisco, Cal. Power-storage apparatus.....	521,768	June 19	1814	{ 430 431 }	67	1558
Page, Carter H., Jr., assignor to United Gas Improvement Company, Philadelphia, Pa. Means for lighting gas ranges, heaters, &c.....	521,915	June 26	2066	496	67	1625
Page, Carter H., Jr., assignor to United Gas Improvement Company, Philadelphia, Pa. Apparatus for heating water.....	521,916	June 26	2068	{ 496 497 }	67	1625
Page, Carter H., Jr., assignor to United Gas Improvement Company, Philadelphia, Pa. Apparatus for heating water.....	521,917	June 26	2070	497	67	1626
Page, Charles W. and O. P., assignors of two-thirds to H. M. Threefoot, J. D. McInnis, W. F. Buchanan, Meridian, and A. J. Keeton, Toomsaba, Miss. Combined nut-lock, rail-brace, and tie-plate.....	524,809	Aug. 21	1438	352	68	955
Page, Herbert S., assignor of five-sixths to J. K. Whiting, Somerville, and H. A. Hopkins, Wellington, Mass. Telephone.....	513,720	Jan. 30	3336	824	66	761
Page, J. Seaver. (See Gott, Clarence P., assignor.)						
Page, Oren H., Pleasant Grove, Minn. Fence-machine.....	528,794	Nov. 6	480	117	69	733
Page, Owen P. (See Page, Charles W. and O. P.)						
Page, Willard C., <i>et al.</i> (See Locke, Fred M., assignor.)						
Page, William B., Dixon, Ill. Pneumatic tester for cans. (Reissue).....	11,443	Sept. 25	2350	{ 560 561 }	68	1621
Paget, Evelyn and L., New York, N. Y. Secondary battery.....	513,245	Jan. 23	2527	{ 609 610 }	66	576
Paget, Joseph T., Boston, Mass. Straightway-valve.....	529,302	Nov. 13	1404	{ 336 337 }	69	922
Paget, Leonard. (See Paget, Evelyn and L.)						
Paget, Leonard, assignor of one-half to C. J. Kintner, New York, N. Y. Dynamo or magneto electric machine.....	522,083	June 26	2369	570	67	1680
Pagett, Charles H., Oxford, Ind. Windmill.....	524,607	Aug. 14	1089	269	68	879
Paige Iron Works. (See Robinson, Eugene M., assignor.)						
Paige Iron Works. (See Starkweather, Gleason F., assignor.)						
Paige, James H., assignor of one-half to G. S. Varney, Manchester, N. H. Picker-motion for looms.....	518,424	Apr. 17	1713	{ 426 427 }	67	346

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Paillard, Alfred E., New York, N. Y., and A. Sueur, Jersey City, N. J., assignors to M. J. Paillard & Co., New York, N. Y. Music-box	526,499	Sept. 25	2067	492	68	1569
Paillard & Co., M. J. (See Langfelder, Henry, assignor.)						
Paillard & Co., M. J. (See Paillard and Sueur, assignors.)						
Pain, Henry J., New York, N. Y. Pyrotechnic device	519,159	May 1	395	95	67	613
Paine, Altemus I., Newton, Mass. Pack of playing-cards	516,165	Mar. 6	692	163	66	1522
Paine, Charles H., and N. S. Hoffman, Brainerd, Minn. Paper-roll holder	519,343	May 8	745	184	67	695
Paine, George H. (See Carlisle, William N., assignor.)						
Paine, Herbert A., Waco, Tex. Combined cotton separator and distributor	525,428	Sept. 4	188	48	68	1186
Paine, Irving. (See Combs, Edgar S., assignor.)						
Paino Lumber Company. (See Perkins, Frank, assignor.)						
Painter, Alonzo J., deceased, Pasadena, Cal.; N. Painter, administratrix. Electrical igniting device for gas-engines	523,369	July 24	2066	519	68	435
Painter, Ludovic J. (See Vanderburg, Robert B., assignor.)						
Painter, Nannie, administratrix. (See Painter, Alonzo J.)						
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Capped-bottle opener	514,200	Feb. 6	386	92	66	926
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Bottle seal or stopper	528,485	Oct. 30	3072	745	69	624
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Bottle seal or stopper	528,486	Oct. 30	3073	745	69	624
Painter, William, assignor to Crown Cork and Seal Company, Baltimore, Md. Bottle seal or stopper	528,487	Oct. 30	3073	745	69	624
Pairpoint Manufacturing Company. (See Bingham, Allen R., assignor.)						
Paisler, Charles S. (See Hayes, Lemuel W., assignor.)						
Paisley, George W., Hillsborough, Ill. Book-holder for desks	528,488	Oct. 30	3074	746	69	625
Palm, Elmer E., Reading, Pa. Pipe-organ	520,167	May 22	2166	527	67	932
Palmberg, Andreas J., Boston, Mass. School desk and seat	520,702	May 29	3070	743	67	1166
Palmberg, Raymond P., New York, N. Y. Store-fixture bracket	517,190	Mar. 27	2453	577	66	1961
Palmar, Lansing A., assignor of one-half to M. M. Jones, Kansas City, Mo. Wire-stretcher. Palmar, Ada, et al. (See Smith, Andrew J., assignor.)	513,437	Jan. 23	2819	692	66	632
Palmer, Alfred W., assignor to C. H. Tompkins, New York, N. Y. Means for making borings at bottom of deep waters and in tideways	525,795	Sept. 11	822	187 188	68	1314
Palmer, Alonzo, Centerville, Mich. Flour-caddy	518,271	Apr. 17	1442	360	67	297
Palmer, Arthur P., and H. L. Phelps, Athens, Pa. Street-sweeper	513,438	Jan. 23	2821	692	66	632
Palmer, Augustus H., Utica, N. Y. Electric plug-switch	531,424	Dec. 25	2374	568	69	1695
Palmer Bros. (See Palmer, William H., Jr., assignor.)						
Palmer, Charles B. (See Shaw, Noah T., assignor.)						
Palmer, Charles H., Amesbury, Mass. Carriage-axle	519,732	May 15	1420	343	67	831
Palmer, Chester M., assignor of one-third to J. M. Palmer, Lamartine, Wis. Animal-shears. Palmer, Dennis W. (See Wonsom and Palmer.)	520,331	May 22	2433	592	67	1033
Palmer, Francis W., St. Louis, Mo. Bottle-stopper	523,918	July 31	3042	757	68	629
Palmer, Fredrick S., Boston, Mass. Fire-alarm and annunciator system	530,648	Dec. 11	1030	250	69	1418
Palmer, George H., U. S. Army. Soldier's field equipment	518,856	Apr. 24	2449	607	67	491
Palmer, Henry L., Brooklyn, N. Y. Serving-tray	515,161	Feb. 20	1947	486	66	1251
Palmer, Isaac E., Middletown, Conn. Hammock-support	522,720	July 10	932	233	68	195
Palmer, James R., Jr. (See Phillips, Harry C., assignor.)						
Palmer, John F., Riverside, Ill. Valve for pneumatic tires	512,518	Jan. 9	1322	319	66	261
Palmer, John F., Riverside, Ill. Pump	524,184	Aug. 7	366	87	68	728
Palmer, John M. (See Palmer, Chester M., assignor.)						
Palmer, Lafayette. (See Wright, William A., assignor.)						
Palmer, Luther, Dexter, Mich. Basket-making machine	516,276	Mar. 13	887	208 209	66	1635
Palmer, Mara V., Willimantic, assignor to Willimantic Linen Company, Hartford, Conn. Thread unwinding apparatus	515,160	Feb. 20	1945	486	66	1251
Palmer, Merritt W., Raymond, Ill., and C. S. Munro, Fairbury, Nebr. Gasoline-stove	528,795	Nov. 6	480	117 118	69	734
Palmer, Milton J., Toledo, Ohio. Soap-press	525,391	Sept. 4	124	32	68	1173
Palmer, Samuel D., Rockford, Ill. Sawbuck	530,601	Dec. 11	945	232	69	1404
Palmer, Samuel D., Rockford, Ill. Churn-cover	530,602	Dec. 11	945	232	69	1404
Palmer, Samuel D., assignor of one-half to G. E. King, Rockford, Ill. Vent for churns	516,222	Mar. 13	798	186	66	1617
Palmer, Samuel D., assignor of one-half to G. E. King, Rockford, Ill. Vent for churns	516,275	Mar. 13	885	208	66	1635
Palmer, Wales L. (See Thompson, Isaac F., assignor.)						
Palmer, William A., Dubuque, Iowa. Flat-opening book	528,340	Oct. 30	2816	681	69	578
Palmer, William H., Jr., Norwich, assignor to Palmer Bros., New London, Conn. Machine for measuring, cutting, and stitching fabrics	516,357	Mar. 13	1016	241 242 243	66	1659
Palmer, William K. (See Dietz, Robert E., assignor.)						
Palmleaf, Charles, Seattle, Wash. Dish-cleaner	520,829	June 5	135	29	67	1222
Palmiter, James B., East Jordan, Mich. Hame and cockeye	514,727	Feb. 13	1264	315	66	1109
Palmquist, Charlie A., Spokane, Wash. Washing-machine	522,695	July 10	886	219	68	186
Pamphilon, Henry J. R., Congleton, England. Crushing or grinding mill	513,197	Jan. 23	2443	590	66	559
Pancoast, L. T., et al. (See Pancoast, Richard M., assignor.)						
Pancoast, Richard M., Camden, N. J. Paper-fastener	524,647	Aug. 14	1166	287	68	893
Pancoast, Richard M., Camden, N. J., assignor to J. D. Wilson and L. T. Pancoast, Philadelphia, Pa. Ventilating railway-cars	515,608	Feb. 27	2689	668 669	66	1404
Pangborn, Henry and J. K., Menominee, Mich. Sleigh-runner	522,606	Nov. 6	143	35	69	673
Pangborn, James K. (See Pangborn, Henry and J. K.)						
Paoli, John, Hoboken, N. J. Hand-level	518,678	Apr. 24	2150	537	67	439
Papoun, William A., Baker City, Oreg. Wrench	513,594	Jan. 30	3114	765	66	721
Paravicini, Joseph, assignor to C. A. Wilson, Bristol, Pa. Roller for printing solid ground colors on wall-paper and making same	513,822	Jan. 30	3480	857	66	789
Pardee, Frank, Hazleton, Pa. Coal or ore separating apparatus	528,386	Oct. 30	2896	701	69	592
Pare, Edmond, et al. (See Fortin, Jules E., assignor.)						
Parfitt, George J. and G. J. T. J., Keynsham, England. Electric-lighting system	528,021	Oct. 23	2264	546	69	462
Parfitt, George J. T. J. (See Parfitt, George J. and G. J. T. J.)						
Parham, Marshall E., Burr Oak, Mich. Mole-trap	517,824	Apr. 3	675	168	67	131
Paris, Robert L., assignor of two-thirds to H. Ely and A. C. Johnson, Andubon, Ky. Fence. Parisen, William R., Paterson, N. J. Sample-case	528,657	Nov. 6	300	73	69	700
Parish, Lemuel A., Shreveport, La. Automatic boiler-feed	524,560	Aug. 14	1026	253	68	866
Park, Alfred J. and A. J., Jr., Virginia, Mo. Fly-brush for doors	512,742	Jan. 16	1671	401	66	343
Park, Alton J., Jr. (See Park, Alfred J. and A. J., Jr.)	514,604	Feb. 13	1057	264	66	1069
Park, Bayd. (See Babcock, Charles, assignor.)						
Park, Edwin H. (See Knowles and Park.)						
Park, George W., Quincy, Mass. Cleansing-brush	520,449	May 29	2628	636	67	1086

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Park, George W., Quincy, Mass. Fountain cleansing-brush	524,994	Aug. 7	210	48	68	700
Park, Harvey S., Chicago, Ill. Motor for street-cars	528,796	Nov. 6	484	118 119	69	734
Park, Staats N., Bloomsbury, N. J. Latch	511,907	Jan. 2	308	71	66	59
Park, William R., Taunton, assignor, by mesne assignments, to H. H. and G. O. Jenkins, Whitman, Mass. Injector	524,685	Aug. 14	1224	299	68	903
Parke, Francis E., assignor of one-half to J. J. Thomas, Tallhima, Indian Ter. Hand-truck	514,866	Feb. 13	1477	371	66	1150
Parke, Robert A., New York, assignor of one-half to J. B. Thacher, Albany, N. Y. Apparatus for heating compressed air for power purposes	513,053	Jan. 16	2223	534	66	446
Parker, Andrew H., Evanston, Ill. Suspensory	521,176	June 12	755	177	67	1347
Parker, Benjamin R., and C. A. Freeman, Weston, Mass. Window-screen	524,608	Aug. 14	1091	270	68	879
Parker, Caleb H., New Orleans, La. Excavating-machine	525,617	Sept. 4	496	120	68	1244
Parker, Charles E., Orange, Tex. Steam-boiler	524,115	Aug. 7	246	57	68	706
Parker, Charles E., and S. W. Williams, East Orange, N. J., assignors to Seabury & Johnson, New York, N. Y. Sulfur candle and making same	527,881	Oct. 23	2001	460	69	414
Parker, Daniel, Calvert, Tex. Thrill-coupling	531,558	Dec. 25	2612	625	69	1741
Parker, Edward F., Fairfield, Me. Rope-hitching device	525,770	Sept. 11	779	180	68	1306
Parker, Galen A. (See Goodrich, Emory W., assignor.)						
Parker, George E. (See Tiffany and Parker.)						
Parker, George G. (See Abbott and Parker.)						
Parker, George S., Janesville, Wis. Fountain-pen	512,319	Jan. 9	974	239	66	196
Parker, George S., Salem, and J. P. Friend, Beverly, Mass. Game apparatus	526,908	Oct. 2	404	101	69	75
Parker, George W. (See Jencks and Parker.)						
Parker, George W., New York, N. Y. Book-rack	518,573	Apr. 17	1967	466	67	390
Parker, George W., Minneapolis, Minn. Garment-supporter	518,964	May 1	43	11	67	544
Parker, Henry F., New York, N. Y., assignor to H. A. Penrose, New London, Conn. Mold for making composition targets	513,527	Jan. 30	3000	739 740	66	700
Parker, Henry F., and M. G. Gillette, New York, N. Y. Power-applying mechanism	529,875	Nov. 27	2392	573	69	1133
Parker, Homer N., assignor of one-half to O. Mason, Winchendon, Mass. Vehicle-wheel	519,388	May 8	832	202	67	712
Parker, Howard. (See Fairbanks and Parker.)						
Parker, Howard, St. Johnsbury, Vt. Window-shade	522,383	July 3	356	91	68	71
Parker, Howard, St. Johnsbury, Vt. Window-shade fixture	522,384	July 3	359	92	68	71
Parker, James M., McAdenville, N. C. Turbine water-wheel	521,386	June 12	1126	265 266	67	1417
Parker, James W., Viola, Ill. Check-row corn-planter	520,862	June 5	197	44	67	1233
Parker, James W., Viola, Ill. Planter	528,235	Oct. 30	2642	637	69	546
Parker, John. (See Allen and Parker.)						
Parker, John E., assignor to H. Pettit, F. and J. Overn, Jr., Philadelphia, Pa. Process of and apparatus for embedding wire-netting in glass	516,223	Mar. 13	800	186	66	1618
Parker, John H., Montreal, Canada. Stringed musical instrument	524,114	Aug. 7	245	57	68	706
Parker, John M., Pawtucket, R. I. Loop-banding machine	518,425	Apr. 17	1714	427 428	67	346
Parker, John M., Pawtucket, R. I. Machine for automatically turning bobbins, spools, &c. Spooling or winding machine	519,967	May 15	1792	440 441	67	901
Parker, John M., assignor to Easton & Burnham Machine Company, Pawtucket, R. I. Spooling or winding machine	525,085	Aug. 28	1940	474 475	68	1060
Parker, John W. (See Pelham, Walter O., assignor.)						
Parker, Josiah A., St. Louis, Mo., and L. L. Summers, Chicago, Ill.; said Summers assignor to said Parker. Telegraph apparatus	516,552	Mar. 13	1348	321 322	66	1720
Parker, Theodore R. (See Dart and Parker.)						
Parker, Thomas, Wingham, Canada. Pump	523,173	July 17	1735	434	68	358
Parker, Thomas, assignor of three-fourths to J. D. Wright, F. F. Stuart, and A. M. Colquhoun, Toronto, Canada. Pulverizer	529,874	Nov. 27	2390	572	69	1132
Parker, William H., assignor to J. T. Strickland, Roanoke, Va. Bed-brace	518,696	Apr. 24	2179	545	67	444
Parker, William H., assignor to J. T. Strickland, Roanoke, Va. Bed-brace	518,697	Apr. 24	2180	545	67	444
Parkhill, John, Rochester, Minn. Roof-framing tool	516,575	Mar. 13	1393	331 332	66	1728
Parkhurst, Edward G., Hartford, Conn. Sight for ordnance	520,075	May 22	1985	486 487	67	950
Parkhurst, Edward G., Hartford, Conn., assignor to Hotchkiss Ordnance Company, Limited, London, England. Breech mechanism for ordnance	512,743	Jan. 16	1674	402 403 404	66	344
Parkhurst, Edward G., Hartford, Conn., assignor to Hotchkiss Ordnance Company, Limited, London, England. Sight for ordnance	512,744	Jan. 16	1686	404	66	346
Parkhurst, Edward G., Hartford, Conn., assignor to Hotchkiss Ordnance Company, Limited, London, England. Crank-arm fastening	512,745	Jan. 16	1689	404	66	346
Parkins, Charles, Hoboken, N. J. Manhole-cover	528,387	Oct. 30	2897	702	69	592
Parkinson, James H., Manchester, England. Porous permanganate block and making same	515,443	Feb. 27	2432	602	66	1354
Parkinson, John, Sr., assignor of one-half to J. Parkinson, Jr., and G. Schmidt, Philadelphia, Pa. Apparatus for manufacturing car-wheels	522,064	June 26	2371	570	67	1680
Parkinson, William C. (See Hawkyard, John, assignor.)						
Parks, Charles E. Somerville, Mass. Apparatus for playing duplicate whist	516,224	Mar. 13	801	187	66	1618
Parks, Charles E., and L. Mollart, Watertown, Wis.; said Mollart assignor to said Parks. Slat-and-wire-fabric loom	517,058	Mar. 27	2227	528	66	1916
Parks, Charles E., and L. Mollart, Watertown, Wis.; said Mollart assignor to said Parks. Stapling and cutting machine	517,586	Apr. 3	276	63, 64	67	54
Parks, Charles E., and L. Mollart, Watertown, Wis.; said Mollart assignor to said Parks. Stapling and cutting machine	517,587	Apr. 3	278	64, 65	67	55
Parks, Charles F., and A. A. Hamilton, Muncie, Ind. Fence	526,500	Sept. 25	2068	492	68	1569
Parks, Clarence W., and A. Goodell; said Goodell assignor to J. E. Lee, Lowell, Mich. Stovepipe-fastening device	525,466	Sept. 4	259	63	68	1199
Parks, Edward H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Mechanism for taking up lost motion	525,771	Sept. 11	781	181	68	1306
Parks, Volney, Fort Wayne, Ind. Pavement	512,318	Jan. 9	973	238	66	196
Parks, Volney, Fort Wayne, Ind. Drill for drilling metal	516,277	Mar. 13	889	209	66	1635
Parks, William R., Palmer, Mass. Boiler-furnace	534,296	Aug. 7	554	132	68	761
Parliaman, Charlotte H., Palmyra, N. Y. Rest for invalids	513,246	Jan. 23	2528	610	66	576
Parman, William S., assignor of one-half to W. R. Adams and J. F. Farrer, Stillwater, Okla. Ter. Fire-escape	518,272	Apr. 17	1444	361	67	297
Parnele, Mary, et al. (See Parnele, Theodore W., assignor.)						
Parnele, Theodore W., assignor to M. Parnele, New York, N. Y., and J. Harrison, Philadelphia, Pa. Sash-holder	513,439	Jan. 23	2823	603	66	632
Parmenter Car Fender Company. (See Parmenter and Gooding, assignors.)						
Parmenter, George A., Cambridge, and C. S. Gooding, Brookline, Mass., assignors to Parmenter Car Fender Company, of Maine. Life-guard for street-cars	523,683	July 31	2622	651	68	551

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Paro, Edward, assignor of two-thirds to C. C. Knapstein and W. L. Niehorster, Chicago, Ill. Device for crimping wire lacing	529,303	Nov. 13	1405	337	69	922
Parrant, Alexander, Worcester, Mass. Sand-delivering mechanism for street-cars	527,446	Oct. 16	1260	310	69	262
Parrey, John U., Kalamazoo, Mich., assignor to Simple Account File Company, Fremont, Ohio. Account-file	531,271	Dec. 18	2102	505	69	1627
Parrish, George W., assignor of one-half to C. D. Denit and F. G. Webber, Salem, Va. Churn-dasher	527,022	Oct. 2	576	139	69	109
Parrish, H. T., <i>et al.</i> (See Armistead, Fabian H., assignor.)						
Parrish, John E., Radford, Va. Sash-balance	513,823	Jan. 30	3481	857	66	789
Parrish, Myron W., Detroit, Mich. Danger-signal for railway-crossings	522,670	July 10	845	210	68	179
Parrish, Thomas K., Richmond, Va. Manufacture of wooden vessels	518,158	Apr. 10	1229	309	67	240
Parrock, Llewellyn A., Birmingham, England. Machine for forging or hammering metal	523,050	July 17	1507	376 377	68	316
Parrott, James D., Litchfield, Ill. Price and cost tag	529,746	Nov. 27	2176	518	69	1090
Parry, Augustus N. (See Vanier, Francis N., assignor.)						
Parry, Denis (See Hall and Parry.)						
Parry, John, <i>et al.</i> (See Parry, John A., assignor.)						
Parry, John A., assignor of two-thirds to E. B. Vandyke and J. Parry, Wilkes-Barré, Pa. Jar-holder	516,166	Mar. 6	693	163	66	1583
Parshall, Horace F., Lynn, assignor to Thomson-Houston Electric Company, Boston, Mass. Armature for dynamo-electric machines	523,776	July 31	2788	692	68	581
Parslow, Alfred H., Tampa, Fla. Sash-fastener	528,208	Oct. 30	2594	626	69	537
Parson, Edward A., assignor of one-half to H. Millar, Ottawa, Canada. Multiple-electric-fuse box	520,378	May 22	2517	609	67	1049
Parsons, Charles A., Newcastle-on-Tyne, England. Bearing for steam-turbines	513,367	Jan. 23	2714	659	66	612
Parsons, George M., Virginia City, Nev. Lifting-fork	515,162	Feb. 20	1948	486	66	1251
Parsons, Herman, Savannah, Ga. Shoe-polisher	523,004	July 17	1428	357	68	301
Parsons, James A., Quanah, Tex. Quilting-frame for sewing-machines	529,946	Nov. 27	2513	605	69	1153
Parsons, John F., Bristol, England. Magazine-camera	524,949	Aug. 21	1672	409 410	68	995
Parsons, John H. (See Gay and Parsons.)						
Parsons, Joseph A., Rocky River, Ohio. Coin-controlled photograph apparatus	519,872	May 15	1646	400	67	873
Parsons, Romeyn C., Grand Ledge, Mich. Dress-goods rack	520,494	May 29	2712	657	67	1100
Parsons, Winslow R., Chicago, Ill. Attachment-holder for sewing-machines	519,134	May 1	344	82	67	604
Partington, Charles, Newport, Ky. Switch-stand	523,592	July 24	2453	615	68	504
Partington, Richard, Patchogue, N. Y. Cloth sizing and drying machine	519,200	May 1	465	114	67	627
Partow, Columbus N., Moonshine, Ill. Chimney-guard	525,057	Aug. 28	1892	463	68	1052
Partuan, John K. (See Brock, Edward E., assignor.)						
Partridge, Charles C., Hyde Park, Mass. Device for liberating animals	519,201	May 1	467	114	67	627
Partridge, Charles C., Hyde Park, Mass. Scarf-pin	520,610	May 29	2901	701	67	1136
Partridge, Charles C., Hyde Park, Mass. Reel	521,245	June 12	873	206	67	1369
Partridge, John W. (See Fisher and Partridge.)						
Pascoe, Benjamin F., Globe, Ariz. Ter. Wagon-brake	525,618	Sept. 4	498	120	68	1244
Passick, Charles J., Seward, Nehr. Cash-register	523,174	July 17	1736	335	68	358
Passmore, Everett G., Haverford, Pa. Bearing for shafts of lawn-mowers	518,468	Apr. 17	1799	445	67	361
Paszkowski, Jan, Chicago, Ill. Harness	530,123	Dec. 4	84	22, 23	69	1231
Patchin, William E., Rochester, N. Y. Damper	520,495	May 29	2713	657	67	1100
Patenall, Frank P. J. (See Selden and Patenall.)						
Patent Gully Company. (See Crosta, Lorenzo W., assignor.)						
Patent Linoleum Company. (See Oetzmann, Arthur S., assignor.)						
Patent Plate Structure Company. (See Nicolas, Edmund, assignor.)						
Patent Victoria Stone Company. (See Phillips, John, assignor.)						
Paterson, Cecil E., Tooradin, Victoria. Pea-threshing machine	526,869	Oct. 2	333	82	69	63
Paterson, James and W., Stockton, Cal. Gas-engine	525,489	Oct. 30	3076	746	69	625
Paterson, James W., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Brake-handle	531,596	Dec. 25	2675	643	69	1753
Paterson, Thomas W., Victoria, Canada. Track-laying machine	529,830	Nov. 27	2319	552 553	69	1118
Paterson, William. (See Paterson, James and W.)						
Pathe, Karl. (See Israel and Pathe.)						
Patrick, Charles E. (See Albertsen, Albert C., assignor.)						
Patrick, Sheldon E., Rockland, Mass., assignor to New England Folding Box Company, of Massachusetts. Paper box	514,683	Feb. 13	1184	295	66	1094
Pattee, Joseph O., St. Paul, and C. W. Case, Minneapolis, Minn. Railway-signal	516,656	Mar. 20	1540	366	66	1772
Pattee, William H. (See Zollinger and Pattee.)						
Patten, Enos, Lynn, Mass., assignor to Automatic Lasting Machine Company, Saco, Me. Lasting-machine	524,489	Aug. 14	902	222 223	68	844
Patten, James S., Baltimore, Md. Thill-coupling	514,493	Feb. 13	868	221	66	1034
Patten, James S., Baltimore, Md., assignor to Patten Self-Oiling Axle and Journal Company of Baltimore City. Axle-box lubricator	514,379	Feb. 6	677	171 172	66	980
Patten Self-Oiling Axle and Journal Company of Baltimore City. (See Patten, James S., assignor.)						
Patten, William R., Chattanooga, Tenn. Split pulley	531,216	Dec. 18	2007	476	69	1610
Patterson, Ben. (See Mitchell, Albert E., assignor.)						
Patterson, Caroline D. (See Gaskill, Elijah T., assignor.)						
Patterson, Charles M. and H. B., Chicago, Ill. Display-rack for wall-paper	522,085	June 26	2372	571	67	1681
Patterson, Doc. A., Summitville, Colo., and E. Anderson, assignors to themselves, and B. H. Dye, White Oaks, N. Mex. Ter. Amalgamator	512,895	Jan. 16	1977	469	66	401
Patterson, Ernest O., Charleston, S. C. Drag for suction-pipes	525,022	Oct. 23	2265	547	69	463
Patterson, Henry M., Wichita, Kans. Scrubbing-machine	525,392	Sept. 4	126	32	68	1173
Patterson, Herbert B. (See Patterson, Charles M. and H. B.)						
Patterson, James M., <i>et al.</i> (See Green, Ira L., assignor.)						
Patterson, James W., New York, N. Y. Apparatus for renting opera-glasses	526,635	Sept. 25	2270	543 544	68	1607
Patterson, James W., New York, N. Y. Coin-operated mechanism	531,327	Dec. 25	2208	529	69	1663
Patterson, James W., New York, N. Y. Coin-actuated lock	531,328	Dec. 25	2210	529	69	1663
Patterson, James W., assignor to Opera Glass Supply Company, New York, N. Y. Coin-controlled attachment for theater-chairs	529,943	July 10	1314	327	68	264
Patterson, John G. (See Heppell and Patterson.)						
Patterson, John G., <i>et al.</i> (See Graham, Simon P., assignor.)						
Patterson, Lemuel, Allegheny, assignor of one-half to G. H. Albertson, Pittsburg, Pa. Conveyor	513,276	Jan. 23	2581	624	66	587
Patterson, Lemuel, Allegheny, assignor of one-half to G. H. Albertson, Pittsburg, Pa. Attachment for brick-making machines	517,010	Mar. 20	2116	500	66	1880

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Patterson, Robert D., Lawrence, Mass. Electric time-signal for railways	525,277	Aug. 28	2258	550	68	1119
Patterson, Robert I., Muncie, Ind. Fastening for jars	515,010	Feb. 20	1702	427	66	1207
Patterson, William. (See Heppell and Patterson.)						
Patterson, William D., Keokuk, Iowa. Mail or express car	517,234	Mar. 27	2518	591	66	1973
Patterson, William J., Beaver Falls, Pa. Jumping-rope	512,483	Jan. 9	1273	306	66	252
Patterson, William R. (See Briggs and Patterson.)						
Pattigler, Josef, assignor to A. von Pischhof, Vienna, Austria-Hungary. Elastic or plastic composition	525,086	Aug. 28	1944	.....	68	1061
Pattigler, Josef, assignor to A. R. von Pischhof, Vienna, Austria-Hungary. Plastic composition	529,876	Nov. 27	2394	.....	69	1133
Patton, Annetta, Stevensville, Pa. Educational appliance	530,450	Dec. 4	642	160	69	1333
Patton, Charles W., Ohio Falls, Ind. Car-coupling	517,059	Mar. 27	2230	529	66	1916
Patton, George M., assignor of one-half to J. Karrer, Canton, Ohio. Anchor for sheet-metal roofing	517,963	Apr. 10	909	227	67	187
Patton, Lucius E. (See Waltz and Patton.)						
Pattosien, William J., et al. (See Schneider, George L., assignor.)						
Patureau, Gabriel, Paris, France. Machine for shaping boxes	513,528	Jan. 30	3002	<div style="display: inline-block; vertical-align: middle;">{ 740 741 742 743 }</div>	66	701
Paul, A. R., et al. (See Schneider, George L., assignor.)						
Paul, Abner C., et al. (See McArdle, Fred W., assignor.)						
Paul, Amasa C., et al. (See McCarrier, John T., assignor.)						
Paul, Andrew G. (See Skiffington, William P., assignor.)						
Paul, Andrew G., Boston, Mass. Heating system	526,733	Oct. 2	102	25, 26	69	21
Paul, Andrew G., Boston, Mass. Drying-cylinder	526,734	Oct. 2	106	26	69	22
Paul, Andrew R., assignor of one-half to G. A. Paul, San Francisco, Cal. Boat's davit	514,661	Feb. 13	1144	285	66	1086
Paul, Gus A. (See Paul, Andrew R., assignor.)						
Paul, Gus A., et al. (See Schneider, George L., assignor.)						
Paul, Henry, Forreston, Ill. Combined band-cutter and feeder	518,159	Apr. 10	1231	309	67	240
Paul, James and J. T., assignors of one-half to F. M. H. Young, Edinburgh, and W. J. Roberts, Chapel Galashiels, Scotland. Sash-fastener	526,108	Oct. 23	2414	584	69	490
Paul, John T. (See Paul, James and J. T.)						
Paul, John T. H. (See Paul, Thomas H. and J. T. H.)						
Paul, Lorenzo C. (See Bartholomew, Albert W., assignor.)						
Paul, Thomas H. and J. T. H., Frostburg, Md. Gas-engine	530,237	Dec. 4	289	71	69	1268
Pauli, Albert J., et al. (See Kuersten, Hugo R., assignor.)						
Paulsen, Heinrich, Hamburg, Germany. Preserving food	526,735	Oct. 2	111	.....	69	23
Paulsen, Theodore C., Chicago, Ill. Rail connection	517,884	Apr. 10	763	190	67	161
Paulson, Soren C., assignor of one-half to H. L. Eastman, Wahpeton, N. D. Bob-sleigh	526,938	Oct. 2	451	111	69	85
Pauly, Joseph, and M. Michels, Chicago, Ill. Fire-ladder	517,932	Apr. 10	843	<div style="display: inline-block; vertical-align: middle;">{ 212 213 }</div>	67	176
Pauly, Peter J., Jr., St. Louis, Mo. Roller for book-shelves	523,483	July 24	2277	572	68	471
Pauly, Peter J., Jr., St. Louis, Mo. File case or cabinet	526,815	Oct. 2	239	58	69	45
Pauly, Peter J., Jr., St. Louis, Mo. Japanning-furnace	530,549	Dec. 11	853	210	69	1387
Pauly, Peter J., Jr., and H. Schneider, assignors to St. Louis Art Metal Company, St. Louis, Mo. Adjustable shelving	515,163	Feb. 20	1949	487	66	1252
Pauthonier, Casimir, Boston, Mass. Power-transmitting or driving mechanism	527,249	Oct. 9	936	227	69	189
Paxton, John B., and E. I. O'Neill, Philadelphia, Pa. Fashioning device for circular-knit-ting machines	521,218	June 12	825	<div style="display: inline-block; vertical-align: middle;">{ 193 194 }</div>	67	1360
Pay, Charles, Providence, R. I. Hoisting apparatus	513,135	Jan. 23	2348	566	66	541
Payne, Cyrus A., et al. (See Wallace, Charles, assignor.)						
Payne, Darius W., Minneapolis, Minn., assignor to F. B. Fargo & Company, Lake Mills, Wis. Combined churn and butter-worker	527,716	Oct. 16	1702	<div style="display: inline-block; vertical-align: middle;">{ 410 411 }</div>	69	344
Payne, Frederick R., Chicago, Ill. Railway-signal	528,797	Nov. 6	490	119	69	735
Payne, George, Rome, N. Y. Hydraulic ram	516,657	Mar. 20	1542	367	66	1772
Payne, Helen A., Elmira, N. Y. Folding shelf	530,349	Dec. 4	486	120	69	1303
Payne, Howard A. (See Gilbert, Matthew C., assignor.)						
Payne, Thomas F., assignor of one-half to W. H. Owens, Olympia, Wash. Curling-iron	516,744	Mar. 20	1693	401	66	1799
Payne, Thomas O., Vicksburg, Miss. Fire-blower	519,733	May 15	1421	343	67	831
Payne, William H., Philadelphia, Pa. Fastening device	515,094	Feb. 20	1830	462	66	1230
Payne, William H., assignor to J. W. Douglass, Philadelphia, Pa. Liquid mixer, shaker, and fruit-squeezer	528,688	Nov. 6	300	74	69	700
Payson, George A., Oak Park, Ill. Spring-hinge	525,511	Sept. 4	316	78, 79	68	1310
Payson, Joseph R., Chicago, Ill. Guard for fish-hooks	512,746	Jan. 16	1691	405	66	347
Peabody & Co., Henry W. (See Hirt, Louis J., assignor.)						
Peabody, James C., Boston, Mass. Making indurated articles from plastic material	517,011	Mar. 20	2117	.....	66	1880
Peabody, John S., assignor to J. F., F. M., and E. S. Simons, Philadelphia, Pa. Holder for tea-balls, strainers, &c	514,427	Feb. 6	743	189	66	993
Peabody, Mike, New York, N. Y. Canceling-stamp	523,751	July 31	2749	692	68	574
Peabody, Robert S., Philadelphia, Pa. Portable spring-actuated center-mark tool	528,555	Nov. 6	51	14	69	656
Peabody, Robert S., Philadelphia, Pa. Vise	528,556	Nov. 6	53	14	69	656
Peabody, Robert S., Philadelphia, Pa. Clamping device for machine-tools	528,557	Nov. 6	54	14	69	656
Peabody, Robert S., Philadelphia, Pa. Riveting-hammer	528,558	Nov. 6	56	15	69	656
Peabody, Robert S., Philadelphia, Pa. Center-punch machine	528,559	Nov. 6	57	15	69	656
Peabody, Robert S., Philadelphia, Pa. Steering apparatus	528,967	Nov. 13	826	194	69	817
Peabody, Robert S., Philadelphia, Pa. Bench-vise	528,968	Nov. 13	827	194	69	817
Peabody, Robert S., Philadelphia, Pa. Article or accessory for smokers' use	529,046	Nov. 13	949	224	69	838
Peabody, Robert S., Philadelphia, Pa. Guard for lathes	530,238	Dec. 4	290	71	69	1268
Peacock, Christopher, North Andover, Wis. Garment-holder	526,789	Oct. 2	200	47	69	38
Peacock, Elijah P., Chicago, Ill. Copy-holder for type-writers	512,212	Jan. 2	801	195	66	152
Peacock, James H. (See Van De Water, Charles, assignor.)						
Peacock, Julian L. (See Trexler, David L., assignor.)						
Peacock, Thomas B. (See Dudley, George B., assignor.)						
Peake, Henry, St. Louis, Mo. Case	524,950	Aug. 21	1674	410	68	996
Pearce, Charles E. (See Creclius, Louis J., assignor.)						
Pearce, Charles W., Diller, Nebr. Motor	513,529	Jan. 30	3011	744	66	702
Pearce, Frederick, New York, and J. Broich, Brooklyn, N. Y., assignors to said Pearce. Dial transmitter	526,356	Sept. 18	1793	<div style="display: inline-block; vertical-align: middle;">{ 425 426 }</div>	68	1506
Pearco, John R., Amory, Miss. Steam-engine	527,072	Oct. 9	648	157	69	136
Pearce, John S., et al. (See Casswell, Richard H., assignor.)						
Pearce, Thomas A. (See Rightmaire, Harry C., assignor.)						
Pearce, William J., Pilot Point, Tex. Hay-press	518,965	May 1	44	12	67	544
Peare, George R., Lynn, Mass. Shoe-sewing machine	526,325	Sept. 18	1741	412	68	1497

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Pearsall, Albert W., New York, N. Y., assignor to Meteor Despatch Company, Boston, Mass. Valve for pneumatic-dispatch-tube systems.	527,073	Oct. 9	649	158	69	137
Pearse, Frank. (See Hall and Pearse.)						
Pearson, Fletcher R., Vancouver, Wash. Fire-kindler	530,716	Dec. 11	1135	275	69	1436
Pearson, Fred S., Boston, Mass. Lightning-arrester	526,736	Oct. 2	112	26	69	23
Pearson, George N., Hantsport, Canada. Thill-coupling	523,129	July 17	1658	415	68	344
Pearson, George S., Waterbury, Conn. Lacing hook or stud for shoes, gloves, &c.	525,718	Sept. 11	691	160	68	1291
Pearson, George S., Waterbury, Conn. Hook and eye	528,341	Oct. 30	2817	681	69	578
Pearson, James J., Brooklyn, N. Y. Cartridge-shell battery	512,055	Jan. 2	539	127	66	103
Pearson, James T., Burnley, England. Means and apparatus for humidifying fibrous substances	520,703	May 29	3072	743	67	1167
Pearson, John. (See Hodge and Pearson.)						
Pearson, Josiah H., Alum Bank, Pa. Car-coupling	528,798	Nov. 6	491	{ 119 120 }	69	735
Pearson, Robert P., Glen Riddle, Pa., assignor to Dutcher Temple Company, Hopedale, Mass. Loom-temple	514,867	Feb. 13	1479	372	66	1151
Pearson, William A., Schenectady, N. Y. Making car-wheels	521,321	June 12	1011	238	67	1394
Pearson, William R., St. Louis, Mo. Apparatus for burning liquid hydrocarbons	526,737	Oct. 2	113	27	69	23
Pearsons, Fillmore A., Rutland, Vt. Ash-sifter	529,947	Nov. 27	2514	{ 605 606 }	69	1153
Pearsons, Fillmore A., Rutland, assignor of one-half to J. W. Titcomb, St. Johnsbury, Vt. Landing-net	525,619	Sept. 4	499	{ 120 121 }	68	1244
Pease, Lewis E., Abington, Mass. Life-saving apparatus	518,857	Apr. 24	2450	607	67	491
Peaslee, Emmett L., Orange, Vt. Cutter-bar for mowing-machines	525,114	Aug. 28	1991	487	68	1069
Peat, David C., assignor of one-half to W. Craw, Sadorus, Ill. Ditching-tool	525,607	Nov. 6	144	36	69	673
Peay, Walter W., assignor to J. H. Baner, Toronto, Canada. Street-car fender	515,609	Feb. 27	2690	669	66	1404
Pecht, John B., assignor to C. Baument, New York, N. Y. Machine for molding Neufchâtel cheese	518,625	Apr. 24	2050	510	67	420
Peck, Arthur E., Minneapolis, Minn. Dental-tool guard	525,278	Aug. 28	2262	550	68	1120
Peck, Edward G., and F. O'Meara, Seymour, Conn. Fountain-pen	523,234	July 17	1637	462	68	376
Peck, Ellsworth A. (See Duane and Peck.)						
Peck, Fayette H., Clinton, N. Y. Bicycle	523,942	July 31	3097	771	68	640
Peck, Fayette H., Clinton, N. Y. Bicycle	523,943	July 31	3099	771	68	640
Peck, Frederic M., Hartford, Conn. Preserving food by cold, &c.	515,789	Mar. 6	101	24	66	1472
Peck, George W., assignor to Miner & Peck Manufacturing Company, New Haven, Conn. Drop-press	513,353	Apr. 17	1598	395	67	325
Peck, Horace B., et al. (See Harris, Levi, assignor.)						
Peck, Ira F. (See Keith, Jeremiah, assignor.)						
Peck, Luke R., assignor of one-half to R. G. Steel, St. John's, Mich. Incandescent-lamp socket	521,322	June 12	1012	238	67	1394
Peck, Luke R., assignor of one-half to R. G. Steel, St. John's, Mich. Incandescent-lamp socket	527,285	Oct. 9	1000	243	69	200
Peck, Royal H., et al. (See Boomhower, Eli E., assignor.)						
Peck, Stow & Wilcox Company. (See Grannis, Hial S., assignor.)						
Peck, Stow & Wilcox Company. (See Shepard, Amos, assignor.)						
Peck, Thomas M., et al. (See Billings, George W., assignor.)						
Peck, Thomas M., et al. (See Childs, Charles H., assignor.)						
Peck, Truman D. (See Platt, Wilbur J., assignor.)						
Peck, Walter E., trustee. (See Grove, Jacob R., assignor.)						
Peck, Williamson Heating and Ventilating Company. (See Ensign, William W., assignor.)						
Pecker, Carl von, Vienna, Austria-Hungary. Double-barreled revolver	524,743	Aug. 21	1327	{ 324 325 326 }	68	934
Peckham, Luther A., Oswego Falls, N. Y. Car heater and ventilator	531,559	Dec. 25	2613	{ 625 626 }	69	1741
Peckham, Malcolm D., New York, and C. E. Swan, Rome, assignors to Columbia Washer Company, New York, N. Y. Washer for vehicle-axles	529,831	Nov. 27	2320	553	69	1118
Pedersen, George, assignor to Sholl Steel Whiffletree Manufacturing Company, Hobart, Ind. Whiffletree	513,054	Jan. 16	2225	534	66	447
Pedersen, George, assignor to Sholl Steel Whiffletree Manufacturing Company, Hobart, Ind. Whiffletree	513,055	Jan. 16	2226	534	66	447
Pedersen, Johannes T., New York, N. Y. Wrench	513,619	Jan. 30	3160	775	66	729
Pedersen, Johannes T., assignor to B. Steinel, New York, N. Y. Cylinder-lock	524,648	Aug. 14	1166	287	68	893
Pederson, John J., Kenyon, Minn. Printing-press	513,136	Jan. 23	2349	{ 567 568 }	66	541
Pederson, Rasmus, Dramman, Minn. Corn-harvester	522,385	July 3	360	92, 93	68	71
Pederson, Rasmus, Dramman, Minn. Corn-harvester	522,386	July 3	364	{ 93 94 95 }	68	72
Pederson, Rasmus, Dramman, Minn. Wagon-seat	522,387	July 3	367	95	68	72
Pedrick, Howard A., Philadelphia, Pa. Hoisting apparatus	525,561	Sept. 4	412	99	68	1237
Peebles, John, assignor to Woolf Valve Gear Company, Minneapolis, Minn. Compound engine	531,272	Dec. 18	2103	505	69	1627
Peel, Benjamin W., Chicago, Ill. Draft-compelling device	526,939	Oct. 2	452	111	69	85
Peeling, Joshua. (See Grubb and Peeling.)						
Peelle, James W., assignor of two-thirds to L. W. and S. S. Peelle, Brooklyn, N. Y. Packing	522,766	July 10	1038		68	212
Peelle, Louisa W., et al. (See Peelle, James W., assignor.)						
Peelle, Sarah S., et al. (See Peele, James W., assignor.)						
Peeples, George, assignor of one-half to Thackara Manufacturing Company, Philadelphia, Pa. Insulated pipe-coupling	515,716	Feb. 27	2869	715	66	1438
Peer, William H., Flushing, N. Y. Collar or scarf stud	515,444	Feb. 27	2432	603	66	1354
Peet, Benjamin F. (See Haines, Robert S., assignor.)						
Peglaw, Daniel, Buffalo, N. Y. Treadle	513,595	Jan. 30	3115	766	66	722
Pegram, T. C. (See McLanghen and Gallant, assignors.)						
Pell, John, and C. K. MacFadden, Chicago, Ill. Electric incandescent lamp	512,320	Jan. 9	975	239	66	197
Peirce, Almy L., Cincinnati, Ohio. Means for protecting receiving-openings of coin-controlled machines	517,012	Mar. 20	2118	501	66	1880
Peirce, Almy L., Cincinnati, Ohio, assignor of three-fourths to C. E. Johnson, A. M. Unger, and T. P. Moody, Chicago, Ill. Coin-controlled liquid-vending apparatus	516,611	Mar. 13	1451	343	66	1739
Peirce, Arthur W. K., Plymouth, Mass., assignor to General Electric Company, of New York. Motor safety device	522,851	July 10	1158	287	68	235
Peirce, Charles B. (See Greer, Charles I., assignor.)						
Peirce, Charles R., and F. B. English, Philadelphia, Pa. Hood for smoke-stacks	516,062	Mar. 6	537	125	66	1552

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Peirce, Edward A., <i>et al.</i> (See Brooks, Stephen H., assignor.)						
Peirce, Winfield S. (See Kahne, Adkins, Peirce, Martin, and Kahne.)						
Pelatan, Louis, Paris, France, and F. Clerici, Milan, Italy. Extracting gold from its ores	528,023	Oct. 23	2266	547	69	463
Pelatan, Louis, Paris, France, and F. Clerici, Milan, Italy. Process of and apparatus for desulfurizing ores	531,004	Dec. 18	1615	{ 383 384 }	{ 69 69 }	1539
Pelletier, Frank D., Kansas City, Mo. Combined collar and hames.	523,406	July 24	2132	535	68	446
Pelham Hod Elevating Company. (See Worn, Erik G. P., assignor.)						
Pelham Hod Elevating Company. (See Worn, Gustaf P., assignor.)						
Pelham, Walter O., assignor of one-half to J. W. Parker, Taylor, Tex. Releasing device for brakes of locomotive drive-wheels	529,948	Nov. 27	2516	606	69	1154
Pelkey, William H., and A. St. Louis, assignors of one-third to G. M. Fuller, Fair Haven, Vt. Molding metal	520,076	May 22	1991	.....	67	951
Pell, Harry S., Akron, Ohio. Water-tube boiler	512,213	Jan. 2	803	195	66	152
Pell, Harry S., Akron, Ohio, assignor to Sterling Company, Chicago, Ill. Steam-boiler	518,858	Apr. 24	2451	607	67	491
Pellas, Francisco A. (See Elieson, Chaimsonovitz P., assignor.)						
Pellas, Francis A. (See Elieson and Pellas.)						
Pelletier, Napoleon, Brooklyn, N. Y. Paddle-wheel for boats	515,883	Mar. 6	233	55	66	1497
Pells, Leonard A., and L. Steiner, Brooklyn, N. Y. Bottle-neck	523,728	July 31	2707	670	68	566
Pelstring, George, Cincinnati, Ohio. Machine for graining wood	523,235	July 17	1838	463	68	376
Peltier, Alphonse, Brooklyn, N. Y. Fly-trap	521,219	June 12	830	194	67	1360
Pelton, Francis A., assignor of one-half to C. J. White, New Britain, Conn. Pipe-hanger	518,825	Apr. 24	2409	596	67	423
Pelton, George W., Appleton, Wis. Cow-milker	520,398	May 22	2545	615	67	1055
Pelzer Art Co. (See Bonsall, Millie V., assignor.)						
Pember, Elba, Pemberville, Ohio. Boiler-fine cutter	523,370	July 24	2067	520	68	435
Pemberton, Algernon C., London, England. Machine for cutting spiral or turned moldings and automatically turning articles from rods	526,738	Oct. 2	115	27, 28	69	23
Pemberton, Robert, Anderson, Ind. Gas-burner	516,107	Mar. 6	599	140	66	1565
Penberthy Injector Company. (See Desmond, John, assignor.)						
Penberthy Injector Company. (See Downes, William A., assignor.)						
Pendergast, John, Hastings, Mich. Wool or felt boot	527,717	Oct. 16	1705	411	69	345
Pendergrass, John B., and K. F. Rice, Eureka Springs, Ark.; said Rice assignor to said Pendergrass; said Pendergrass assignor of one-half to J. Richey, Salem, Iowa. Automatic drill-holding machine	516,063	Mar. 6	538	125	66	1553
Pendleton, Bradford H., Evanston, Ill. Lighting device	531,597	Dec. 25	2677	643	69	1754
Pendleton, John H., Brooklyn, N. Y. Leaf-holder	528,560	Nov. 6	58	15	69	657
Pendleton, John H., Brooklyn, assignor to R. D. Harris, New York, N. Y. Speed-gearing	520,801	June 5	77	17	67	1211
Pendleton, John M., New Brighton, N. Y. Method of and apparatus for forming grids or plates for secondary batteries	516,337	Mar. 13	979	232	66	1652
Pendleton, William S., New York, assignor to E. D. Davidson, Huntington, N. Y. Electric-arc lamp	524,116	Aug. 7	247	57, 58	68	707
Pendry, William A., Detroit, assignor of two-thirds to D. J. Davidson, A. S. and S. G. Martin, Port Huron, Mich. Sieve cut-off	527,882	Oct. 23	2002	480	69	414
Penfield, Raymond C. (See Wallace and Penfield.)						
Penfield & Son, J. W. (See Wallace, William W., assignor.)						
Peninsular Broom Company. (See McDonel, Daniel A., assignor.)						
Penn, George, Syracuse, N. Y. Vehicle-spring	530,649	Dec. 11	1032	251	69	1418
Penn, Frederick J., and J. Deeley, Sr., Birmingham, England. Breech-bolt	522,121	June 26	2430	584	67	1691
Pennington, Humbolt, Macon, Mich. Lubricator	526,816	Oct. 2	240	58	69	45
Pennington, John C., Paterson, N. J. Making beer	515,011	Feb. 20	1703	428	66	1207
Pennington, Steve, assignor of one-third to P. Crowley and S. Marx, Lake Charles, La. Car-coupling	524,863	Aug. 21	1531	374	68	971
Pennink, Johan M. K., Haarlem, Netherlands. Truck	518,535	Apr. 17	1905	{ 471 472 }	{ 67 67 }	380
Pennock, Horace A., Minerva, Ohio. Trotting-sulky	529,185	Nov. 13	1191	286	69	882
Pennsylvania Machine Company. (See White, Joseph J., assignor.)						
Penoyer, Newton D., Fort Worth, Tex. Vehicle-wheel	523,051	July 17	1508	377	68	317
Penrose, Hallack A. (See Granger, Frank D., assignor.)						
Penrose, Hallack A. (See Granger, Frank D., assignor.) (Reissue.)						
Penrose, Hallack A. (See Parker, Henry F., assignor.)						
Penuela, José T., Ciudad del Tocuyo, Venezuela. Mechanical movement	512,896	Jan. 16	1978	469	66	401
Peple, Charles A. (See Peple, Gustavus A. and C. A.)						
Peple, Gustavus A. and C. A., assignors to Mayo Tobacco Drying and Ordering Company, Richmond, Va. Moistening-chamber for tobacco-ordering apparatus	517,825	Apr. 3	676	168	67	131
Pepper, Charles L., assignor to Overman Wheel Company, Chicopee Falls, Mass. Seat for cycle-saddles	515,966	Mar. 6	369	88	66	1522
Pepper, James W. (See Rappold, William J., assignor.)						
Pepper, Matthias R., Ford City, Pa. Glass-furnace	512,921	Jan. 9	976	239	66	197
Percy, Archibald A., Glasgow, Scotland. Cover for tobacco-pipes	521,804	June 26	1966	475	67	1605
Peregrine, Seymour W. (See Bennett, George M., assignor.)						
Perfect Button Stick Company. (See Meredith, Edmund A. J., assignor.)						
Perfection Safety Gas Burner Company. (See Kleinfeldt, Arthur, assignor.)						
Perk, Herman. (See Mohr and Perk.)						
Perkins, Albert, Chicopee, Mass. Seat-post for bicycles	523,944	July 31	3101	772	68	640
Perkins, Albert, Chicopee, assignor to Lamb Manufacturing Company, Chicopee Falls, Mass. Adjusting device for bicycles	524,951	Aug. 21	1675	410	68	996
Perkins, Albert, assignor to Lamb Manufacturing Company, Chicopee Falls, Mass. Bicycle-pedal	530,899	Dec. 11	1427	{ 338 339 }	{ 69 69 }	1490
Perkins, Albert, Chicopee, Mass., assignor to A. G. Spalding & Brothers, New York, N. Y., and Lamb Knitting Machine Manufacturing Company, Chicopee Falls, Mass. Cycle-frame	515,717	Feb. 27	2870	715	66	1438
Perkins, Albert, Chicopee, Mass., assignor to A. G. Spalding & Brothers, New York, N. Y., and Lamb Knitting Machine Manufacturing Company, Chicopee Falls, Mass. Pedal	520,009	May 15	1864	456	67	913
Perkins, Amos H., Chicago, Ill. Method of and apparatus for repairing asphalt pavements	517,191	Mar. 27	2454	577	66	1961
Perkins, Charles N., and J. P. Scollay; said Scollay assignor to D. Gallagher, Lawrence, Mass. Snap-hook	527,286	Oct. 9	1001	243	69	200
Perkins Electric Switch Manufacturing Company. (See Gibbs, Jacob S., assignor.)						
Perkins, Frank, assignor to Paine Lumber Company, Limited, Oshkosh, Wis. Woodworking-machine	513,056	Jan. 16	2226	{ 534 535 }	{ 66 66 }	447
Perkins, Franklin J. (See Smith and Perkins.)						
Perkins, Franklin J., assignor of three-fourths to C. A. Blackburn, Woburn, Mass. Wood-scraper	516,225	Mar. 13	803	188	66	1618
Perkins, Gains W. (See Linn, Allen D., assignor.)						
Perkins, Gains W., <i>et al.</i> (See Raymond, Emma H., assignor.)						
Perkins, Gardner H., Cazenovia, N. Y. Fence	520,217	May 22	2253	548	67	998

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Perkins, George H., assignor of one-half to Atlantic Refining Company, Philadelphia, Pa. Heater for soldering-irons, &c	519,305	May 1	661	160	67	665
Perkins, George H., assignor of one-half to Atlantic Refining Company, Philadelphia, Pa. Oil-valve	519,306	May 1	663	161	67	665
Perkins, George H., assignor to Atlantic Refining Company, Philadelphia, Pa. Apparatus for filling cans	519,307	May 1	665	161	67	666
Perkins, Gilbert, Wakefield, assignor of one-half to W. H. Perkins, Gloucester, Mass. Buoyant seat for boats	523,151	July 17	1691	423	68	350
Perkins, Hazen H., assignor to H. H. Perkins Manufacturing Company, Kewanee, Ill. Corn-husker	513,721	Jan. 30	3338	824	66	762
Perkins, Hazen H., assignor to H. H. Perkins Manufacturing Company, Kewanee, Ill. Corn-husker	513,722	Jan. 30	3340	824	66	762
Perkins, Hazen H., assignor to H. H. Perkins Manufacturing Company, Kewanee, Ill. Corn-husker	513,723	Jan. 30	3341	825	66	762
Perkins, Hazen H., assignor to H. H. Perkins Manufacturing Company, Kewanee, Ill. Corn-husker	513,724	Jan. 30	3343	825	66	762
Perkins, Josiah P., et al. (See Cole, Thomas A., assignor.)						
Perkins, Ludlow P., Manchester, England. Steam or other fluid boiler	529,304	Nov. 13	1407	337	69	922
Perkins, Miles O., Galveston, Tex. Rail-joint	521,667	June 19	1628	381	67	1525
Perkins, N. S. (See Keyes, James A., assignor.)						
Perkins, Nathan W., Jr. (See Atwood and Perkins.)						
Perkins, William H. (See Perkins, Gilbert, assignor.)						
Perkins, William W., Escanaba, Mich. Self-closing shutter	531,217	Dec. 18	2008	476	69	1610
Perky, Henry D., Denver, Colo., assignor to Cereal Machine Company, of Colorado. Machine for the manufacture of food products from cereals	520,496	May 29	2714	657 658	67	1101
Perky, Henry D., Denver, Colo., assignor to Cereal Machine Company, of Colorado. Machine for the manufacture of food products from cereals	521,810	June 26	1881	450	67	1589
Perl, John E., Osage Mission, Kans. Animal-spreader	521,774	June 19	1829	435	67	1561
Pero, George W., West New Brighton, assignor of one-half to C. Kipper, Tompkinsville, N. Y. Axle-lubricator	520,450	May 29	2629	636	67	1086
Perrean, Emile. (See Philibert, Perrean, and Laborde.)						
Perren, George S., Chicago, Ill. Mattress	527,287	Oct. 9	1002	243	69	200
Perret, Frank A., Brooklyn, N. Y. Electric-arc lamp	513,735	Jan. 30	3344	825	66	763
Perrin, Frederic S. (See Lane and Perrin.)						
Perrin, Frederick S., Lynn, Mass., assignor of three-fourths to W. B. Baldwin, New York, N. Y., G. Fink, Jersey City, N. J., and A. F. Buchenberger, Brooklyn, N. Y. Electric-railway switch and trolley	522,388	July 3	369	95.96	68	73
Perrody, Esprit, Geneva, Switzerland. Metallic pavement	529,747	Nov. 27	2177	519	69	1091
Perry, Austin E., Wakefield, assignor to G. H. P. Flagg, Boston, Mass. Knife-holder for sole-rounding machines	518,789	Apr. 24	2345	581	67	472
Perry, Austin E., Wakefield, assignor to G. H. P. Flagg, Boston, Mass. Leather-skiving machine	518,790	Apr. 24	2346	581 582	67	473
Perry, Austin E., Wakefield, assignor to G. H. P. Flagg, Boston, Mass. Buffing-pad holder	528,024	Oct. 23	2268	548	69	463
Perry, Benjamin F., Spiceland, Ind. Trace-fastener	514,770	Feb. 13	1327	331	66	1121
Perry, E. E., et al. (See Schenerecker, Joseph, assignor.)						
Perry, Edward L., Paterson, N. J. Steam-trap	520,077	May 22	1991	487	67	951
Perry, Edward L., Paterson, N. J. Hollow rubber article	521,246	June 12	874	207	67	1369
Perry, Elias C., Chicago, Ill. Carpenter's folding square	514,380	Feb. 6	680	172	66	981
Perry, Enoch W., Jr., New York, N. Y. Tripod or support for cameras	517,360	Mar. 27	2726	641	66	2014
Perry, Harry A. (See Metcalf, John A., assignor.)						
Perry, James L., assignor to Perry Sander Company, Chicago, Ill. Device for adjusting sandpaper-cylinders	531,273	Dec. 18	2105	505	69	1627
Perry, James W., Philadelphia, Pa., assignor to Johns-Pratt Company, Hartford, Conn. Trolley-wire clip	528,561	Nov. 6	59	16	69	657
Perry, John, and C. E. Holland, London, England. Ammeter and voltmeter	511,791	Jan. 2	74	18.19	66	17
Perry, John F., Chicago, Ill. Printer's quoin	530,124	Dec. 4	86	23	69	1231
Perry, Joseph R., Wilkes-Barre, Pa. Piano-action	523,209	Oct. 30	2595	626	69	537
Perry, O. H., et al. (See Schenerecker, Joseph, assignor.)						
Perry Sander Company. (See Perry, James L., assignor.)						
Perry, Thomas O., Chicago, Ill. Gear-cutting machine	528,025	Oct. 23	2270	548	69	464
Perry, Thomas O., Chicago, Ill. Temperature-regulator	528,645	Nov. 6	227	56	69	687
Perry, Thomas O., Chicago, Ill. Temperature-regulator	528,736	Nov. 6	369	90	69	714
Perry, Thomas O., Chicago, Ill. Temperature-regulator	528,799	Nov. 6	492	120	69	736
Perry, Thomas O., Chicago, Ill. Temperature-regulator	528,800	Nov. 6	495	120	69	736
Perry, Thomas O., Chicago, Ill. Temperature-regulator	528,801	Nov. 6	497	120	69	736
Perschl, Josef. (See Weber, Perschl, and Weber.)						
Pershall, Albert M., et al. (See Burkhardt, Franklin P., assignor.)						
Peschong, Peter, Alton, Iowa. Fire-kindler	517,060	Mar. 27	2232	529	66	1917
Pessano, Antonio C., Philadelphia, Pa., assignor to Geo. V. Cresson Co., of Pennsylvania. Vertical-shaft bearing	514,684	Feb. 13	1185	295	66	1094
Peter, Arnold H. (See Waldstein and Peter.)						
Peter, Frederick, Anna, Ill. Truck	524,210	Aug. 7	418	99	68	738
Peter Henderson & Company. (See Forbes and O'Neil, assignors.)						
Petering, William, Centre, Ohio. Wagon-brake	531,061	Dec. 18	1710	406	69	1557
Peters, Frederick, New Orleans, La. Reversible paper-cutter	523,965	July 31	3137	782	68	648
Peters, Gershom M., Cincinnati, Ohio. Blasting-cartridge	511,792	Jan. 2	75	19	66	17
Peters, John R., Georgetown, Pa. Apparatus for manufacturing water-gas	516,226	Mar. 13	804	188	66	1619
Peters, Newton, and M. Mathey, Milwaukee, Wis. Machine for packing barrel-heads, &c.	524,729	Aug. 21	1307	320	68	931
Petersen, Christian. (See Travers and Petersen.)						
Petersen, Edward A. C., Chicago, Ill. Baker's oven	512,623	Jan. 9	1477	356	66	290
Petersen, Herluf A. F., Milwaukee, Wis. Conduit for electric railways	516,876	Mar. 20	1891	447 448	66	1838
Petersen, Richard N. B., Vinton, Iowa. Ink-fountain for ruling-machines	519,025	May 1	139	34	67	563
Peterson, Andrew B., et al. (See Caesar, Peter J., assignor.)						
Peterson, Charles, Dublin, Ireland. Tobacco-pipe	519,135	May 1	346	82	67	604
Peterson, Charles F. (See Tinnerholm and Peterson.)						
Peterson, Charles J. (See Oliver, Thomas, assignor.)						
Petrie, Enos B., Buffalo, N. Y., assignor of one-half to G. H. Blanchard, Boston, N. Y. Apparatus for raising sunken vessels	526,163	Sept. 18	1459	341 342	68	1442
Peterson, Jonathan, New York, N. Y., assignor to American Tobacco Company, Newark, N. J. Paper box	530,239	Dec. 4	291	71	69	1268
Peterson, Karl. (See Holmes and Peterson.)						
Peterson, Peter, Chicago, Ill. Dump-car	522,026	June 26	2279	546	67	1662
Peterson, Peter T., Brooklyn, N. Y. Sounding-lead	515,128	Feb. 20	1887	474	66	1239

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Petit, Julius C., Fort Worth, Tex. Womb-battery.....	520,895	June 5	260	62	67	1245
Petraeus, Carl V. (See Bartlett and Petraeus.)						
Petraeus, Carl V., assignor to O. H. Picher, Joplin, Mo. Refining base bullion.....	515,164	Feb. 20	1951		66	1252
Petri, William C., Wichita, Kans. Apparatus for photographically recording time, position, and speed.....	516,278	Mar. 13	890	{ 209 210 }	66	1636
Petsche, Gustav B. (See Good and Petsche.)						
Pettee, John W. (See Hersh, Woodward, and Pettee.)						
Pettee Machine Works. (See Hinton, Robert W., assignor.)						
Pettegrew, Swithen C., Bayard, Kans., assignor of one-half to W. Small, Jr., Kansas City, Mo. Motor.....	524,686	Aug. 14	1225	299	68	903
Petterson, Hugo, Columbus, Ohio. Supporting structure.....	524,347	Aug. 14	671	164	68	800
Petterson, Per E., Minneapolis, Minn. Electric belt.....	518,894	Apr. 24	2524	624	67	506
Pettibone, Mulliken & Company. (See Denton, Daniel T., assignor.)						
Pettibone, Mulliken & Company. (See Ericson, Richard W., assignor.)						
Pettingell, Benjamin C., assignor, by mesne assignments, to W. P. Sayward, Victoria, Canada. Explosive compound.....	525,996	Sept. 11	1175		68	1377
Pettis, George C., New Haven, Conn., assignor to United States Rubber Company, New Brunswick, N. J. Metal last.....	528,737	Nov. 6	371	90	69	714
Pettit, David, Beverly, N. J. Ball-bearing for vehicles.....	517,235	Mar. 27	2520	592	66	1974
Pettit, Horace, et al. (See Overn, Frank, assignor.)						
Pettit, Horace, et al. (See Parker, John E., assignor.)						
Pettit, John M., and J. W. Watt, McLuney, Ohio. Jug or jar.....	526,940	Oct. 2	453	111	69	85
Petzelt, Linus, Wollstein, Germany. School-seat.....	513,413	Jan. 23	2785	{ 681 682 }	66	626
Petzman, Adolph C., Philadelphia, Pa. Railway-tie.....	515,551	Feb. 27	2602	644	66	1326
Peuchen, Stanley C., assignor of one-half to P. Clarke, Toronto, Canada. Apparatus for vaporizing petroleum or other liquids.....	531,560	Dec. 25	2616	626	69	1742
Pew, John O., North Bloomfield, Ohio. Fastening for metallic roofs.....	521,572	June 19	1468	343	67	1495
Pew, Kirk E., et al. (See Burnap, Charles F., assignor.)						
Peyer, Gustav. (See Staub, Henry, assignor.)						
Peyrussou, Antoine E., Limoges, France. Secondary battery.....	523,371	July 24	2069	520	68	436
Peyser, Henry M., Boston, Mass. Glove.....	515,165	Feb. 20	1952	457	66	1252
Pfaff, Albert, Dayton, Ohio. Fare-register.....	529,803	Nov. 27	2265	541	69	1107
Pfaff, Albert, assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator.....	524,836	Aug. 21	1491	{ 304 305 306 }	68	964
Pfaffenzer, Max, Brooklyn, N. Y. Making transparent transfer-paper.....	522,350	July 3	300		68	60
Pfarr, Thomas L., Jr., Pittsburg, Pa. Socket for incandescent lamps.....	512,448	Jan. 9	1211	293	66	241
Pfefferkorn, Wilhelm, assignor to Johnson Company, Johnstown, Pa. Machine for bending flanged metal bars.....	530,240	Dec. 4	292	72	69	1268
Pfeiffer, Charles. (See Finch and Pfeiffer.)						
Pfeil, Eberhard von, Hantsdorf, Germany. Writing-desk trunk.....	522,390	July 3	381	97	68	75
Pfeil, Robert. (See Frischen and Pfeil.)						
Pfenninger, John J., St. Louis, Mo. Bake-oven.....	517,125	Mar. 27	2336	{ 550 551 }	66	1938
Pfenninger, John J., St. Louis, Mo. Bake-oven.....	523,005	July 17	1428	357	68	301
Pfenninger, John J., St. Louis, Mo. Bake-oven. (Reissue.)	11,439	Sept. 4	627	148	68	1266
Pfetsch, Jacob F. (See Dutton and Pfetsch.)						
Pfister, Joseph H. (See Kratz, John, assignor.)						
Pfieghar, Frank P., New Haven, Conn. Apparatus for clamping peripheral bands on wheels.	523,729	July 31	2708	670	68	566
Pfouts, Leroy S., Canton, Ohio. Bracket for trolley-wires.....	526,408	Sept. 25	1922	457	68	1543
Pfouts, Leroy S., Canton, Ohio. Trolley and feed wire bracket.....	526,409	Sept. 25	1923	457	68	1543
Pfouts, Leroy S., Canton, Ohio. Shape-metal-cutting machine.....	528,738	Nov. 6	372	91	69	714
Phares, George N., Sheridan, Ind. Brick and tile kiln.....	517,883	Apr. 10	761	190	67	161
Pharo, John F., Danville, assignor to M. Boas, St. Hyacinthe, Canada. Knitting-machine.	531,062	Dec. 18	1711	407	60	1557
Phelan, John, assignor of one-half to R. C. Nebinger, Pittsburg, Pa. Rail-joint.....	512,392	Jan. 9	1100	266	66	220
Phelps, Alton D., Galt, Cal. Door-cupping.....	530,852	Dec. 11	1355	323	69	1477
Phelps, Artemas. (See Baker, Artemas, assignor.)						
Phelps, Charles, Oskaloosa, Iowa. Hot-water heater or steam-generator.....	514,026	Feb. 6	78	20, 21	66	869
Phelps, Charles H., Chicago, Ill. Oil-can.....	515,552	Feb. 27	2603	645	66	1366
Phelps, Charles W., Racine, Wis. Bolster-spring.....	514,728	Feb. 13	1265	315	66	1109
Phelps, Edwin. (See Phelps, Walter J. and E.)						
Phelps, Edwin S., Leavenworth, Kans. Time-lock.....	520,332	May 22	2434	{ 592 593 }	67	1033
Phelps, Friend A., assignor to New Haven Safety Door-Guard Company, New Haven, Conn. Door-check.....	526,164	Sept. 18	1462	342	68	1442
Phelps, Homer L. (See Palmer and Phelps.)						
Phelps, James M., Broadway, Ohio. End post for wire fences.....	523,992	Aug. 7	44	10	68	670
Phelps, James R., Marysville, Cal. Dental mold for teeth.....	512,840	Jan. 16	1873	443	66	381
Phelps, James R., Marysville, Cal. Artificial tooth-crown.....	512,841	Jan. 16	1875	444	66	382
Phelps, John M., et al. (See Euchenhofer, Weinman, and Stevens, assignors.)						
Phelps, John M., et al. (See Stevens, Alfred L., assignor.)						
Phelps, Walter J. and E., Baltimore, Md. Toy fence.....	513,137	Jan. 23	2350	567	66	541
Phelps, William E. (See Fenn, Jason C., assignor.)						
Phenice, William H., South Perry, Ohio. Kitchen-cabinet.....	522,465	July 3	528	134	68	105
Phenix Iron Foundry. (See Muir, James, assignor.)						
Philadelphia Lawn Mower Company. (See Vernon, William G., assignor.)						
Philadelphia Textile Machinery Company. (See Proctor, Josiah K., assignor.)						
Philadelphia Textile Machinery Company. (See Proctor, Josiah K., assignor.) (Re. one.)						
Philadelphia Textile Machinery Company. (See Schwartz, Charles W., Jr., assignor.)						
Philibert, Clement, E. Perreau, and A. Laborde, Paris, France. Machine for decorticating ramie.....	514,494	Feb. 13	870	221	66	1034
Phillon, George, Mishawaka, Ind. Truck.....	511,793	Jan. 2	76	19	66	17
Phillips, Martin, Williamsburg, N. Y. Transposing-keyboard for musical instruments.....	519,071	May 1	227	53, 54	67	579
Phillips, James J. E., Brooklyn, N. Y., assignor to Empire City Subway Company, Limited. Electric subway.....	521,125	June 5	658	155	67	1316
Phillipson, Sigmund, Austin, Tex. Cigar-package.....	521,041	June 5	520	123	67	1291
Phillippi, George W., Reading, assignor to R. M. Popham, Philadelphia, Pa. Gate for railway-crossings.....	526,941	Oct. 2	454	112	69	85
Phillips, Cornelius J., New York, N. Y. Filter.....	526,817	Oct. 2	241	58	69	46
Phillips, David E., Mahanoy City, Pa. Revolvable screen.....	520,571	May 29	2836	685	67	1123
Phillips, David E., Mahanoy City, Pa. Revolvable screen.....	523,993	Aug. 7	45	10	68	670
Phillips, Edwin J., et al. (See Emery, Fred B., assignor.)						
Phillips, Elwood C., Chicago, Ill. Apparatus for affixing stamps, labels, &c.....	520,497	May 29	2716	658	67	1101

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Phillips, Elwood C., Chicago, Ill. Horse-collar	523,490	Oct. 30	3078	746	69	625
Phillips, Elwood C., Chicago, Ill., assignor to F. F. Spencer, Montclair, N. J. Boring-bit	524,952	Aug. 21	1676	410	68	996
Phillips, Elwood C., Chicago, Ill., assignor to F. F. Spencer, Montclair, N. J. Auger-bit	529,832	Nov. 27	2322	553	69	1119
Phillips, George C., Manchac, La. Cotton-picking machine	530,451	Dec. 4	644	160 161	69	1333
Phillips, Harry C., assignor of one-half to J. Palmer, Jr., Rochester, N. Y. Game-counter	521,889	June 26	2005	484	67	1614
Phillips, Herbert L., St. Paul, Minn. Automatic amalgamator sluice-box	528,969	Nov. 13	828	194 195	69	817
Phillips, J. R. (See Miller, Joseph R., assignor.)						
Phillips, Jacob H., Bedford, Pa. Office-indicator	515,012	Feb. 20	1705	428	66	1207
Phillips, James H., and F. C. Feldman, Chicago, Ill. Sofa-bed	523,372	July 24	2070	520 521	68	436
Phillips, John, Lee, England. Tube-plate for steam-boilers	513,620	Jan. 30	3161	776	66	730
Phillips, John, assignor to Patent Victoria Stone Company, Limited, London, England. Gully catch-pit and trap	522,351	July 3	301	77, 78	68	60
Phillips, John E., Syracuse, N. Y. Fence	517,659	Apr. 3	415	100	67	80
Phillips, John H., assignor of one-half to G. H. Gerber, Pottsville, Pa. Water-heating fire-grate	528,388	Oct. 30	2898	702	69	592
Phillips, John M., Carrick, Pa. Car-dumping apparatus	529,305	Nov. 13	1409	337 338	69	922
Phillips, John M., Carrick, J. J. Fleming, Fleming Park, and F. Browning, Coraopolis, Pa., said Fleming and Browning assignors to said Phillips. Automatic cross-over tip	524,211	Aug. 7	419	99 100	68	738
Phillips, Thomas E., assignor of one-half to B. A. McGee, G. W. Bolenbacher, P. K. Buskirk, and J. Karsell, Bloomington, Ind., and J. H. Dunn, Louisville, Ky. Separating fibers of reed-cane	514,027	Feb. 6	82		66	870
Phillips, Thomas E., assignor of one-half to B. A. McGee, G. W. Bolenbacher, P. K. Buskirk, and J. Karsell, Bloomington, Ind., and J. H. Dunn, Louisville, Ky. Separating fibers of reed-cane	514,028	Feb. 6	83		66	870
Phillips, Thomas R., et al. (See Quackenbush, George, assignor.)						
Phillips, Walter S., Brooklyn, N. Y. Dumping-wagon	520,572	May 29	2838	685	67	1124
Phillips, William A., U. S. Army. Electrical danger-signaling system	529,949	Nov. 27	2517	606 607	69	1154
Phillips, William A., U. S. Army, assignor of one-half to T. J. Porter, Miles City, Mont. Lamp	521,439	June 12	1222	289 290	67	1434
Phillips, William A., and J. B. Entz, Bridgeport, Conn., assignors to Waddell-Entz Company of West Virginia. Storage-battery	518,966	May 1	46	12	67	544
Phillips, William H., assignor to Breuil-Phillips Company, Limited, Philadelphia, Pa. Drill-jar	511,794	Jan. 2	77	19	66	17
Phillips, William H., Jenkintown, assignor to Breuil-Phillips Manufacturing Company, Philadelphia, Pa. Rail-bending tool	520,078	May 22	1992	487	67	951
Phillips, William R., Milford, Del. Shipping-rack and frame for cars	520,270	May 22	2340	567 568	67	1015
Phillips, Willis E., assignor of one-half to P. Bertschy, Saguache, Colo. Child's cradle	528,026	Oct. 23	2276	549	69	464
Philpott, Richard, et al. (See Heath, Walter A., assignor.)						
Philow, Joseph F., Monmouth, Ill. Washing-machine	512,842	Jan. 16	1876	444	66	382
Pinney, Adelbert. (See Ericson, John, assignor.)						
Phipps, Edward L., Milford, Mich. Car-door	513,414	Jan. 23	2786	682	66	626
Phipps, Edward L., Milford, Mich. Car-door	515,248	Feb. 20	2090	519	66	1277
Phipps, George W., assignor of two-thirds to E. M. Locke and M. Dillon, Lockford, Cal. Potato-digger	525,361	Sept. 4	71	20	68	1164
Phoenix Hot Water Heater Company. (See Murgittroyd, Smith N., assignor.)						
Phonoharp Company. (See Batchelder, William W., Jr., assignor.)						
Picard, Louis L., Paris, France. Revolver with knife attachment	529,877	Nov. 27	2395	574	69	1133
Piccioli, Joshua. (See Hill, William H., assignor.)						
Piccott, Enoch. (See Staples, John H., assignor.)						
Picher, Oliver H. (See Bartlett and Petraeus, assignors.)						
Picher, Oliver H. (See Petraeus, Carl V., assignor.)						
Pickard, Edgar. (See Thornton and Pickard.)						
Picken, Archibald, Roanoke, Va. Garment-fastener	529,748	Nov. 27	2178	519	69	1091
Pickering, Frank A., Medford, Mass. Vise	528,912	Nov. 6	731	171	69	780
Pickernell, Frank A., Newark, N. J. Composite telephonic and multiple-telegraphic transmission	512,214	Jan. 2	804	195	66	153
Pickett, Albert S., Delaware, Ohio. Elevated railway	529,749	Nov. 27	2179	519 520	69	1091
Pickett, Charles G., assignor to C. S. Dickinson, Baldwinville, Mass. Saw-guard	513,138	Jan. 23	2352	567	66	542
Pickett, Charles R., Delaware, Ohio. Wire fence	529,833	Nov. 27	2325	553	69	1119
Pickett, George W., assignor of nine-sixteenths to S. Lesem, Denver, Colo. Rock-drill	519,202	May 1	469	114 115	67	628
Pickett, George W., assignor of nine-sixteenths to S. Lesem, Denver, Colo. Rock-drill	519,290	May 1	627	153 154	67	659
Pickett, Harry W., Warren, Pa. Pumping mechanism for oil-wells, &c.	529,804	Nov. 27	2267	541	69	1107
Pickett, Joseph, New Hope, Pa. Snap-hook	521,387	June 12	1127	266	67	1417
Pickles, Charles K., St. Louis, Mo. Furnace-door	521,447	June 12	1242	293	67	1438
Pickles, James D., Buckland, Conn. Paper-pulp-beating engine	528,027	Oct. 23	2277	549	69	465
Pickles, Robert H., Marple, England. Mordant	530,202	Dec. 4	219		69	1256
Pickup, George A., Shelbyville, Tenn. Rubber stamp	523,777	July 31	2789	693	68	581
Pictet, Raoul P., Paris, France, assignor to Société Anonyme de l'Institut Raoul Pictet, Freyburg, Switzerland. Disinfecting apparatus	531,329	Dec. 25	2211	529	69	1663
Pidecock, John R., assignor of one-half to F. H. Larimer, Denver, Colo. Automatic air-valve	512,660	Jan. 9	1544	370	66	304
Piepenbring, Edward, Washington, D. C. Stilt	521,811	June 26	1882	450	67	1589
Pieper, Henry H., St. Louis, assignor of one-half to E. Long, French Village, Mo. Corn and cotton planter	514,868	Feb. 13	1481	372 373	66	1151
Pierce, Andrew J., assignor to Pierce Engine Company, Racine, Wis. Governor	519,412	May 8	867	209 210	67	718
Pierce, Charles E. (See Splithoff, Peter, assignor.)						
Pierce Engine Company. (See Pierce, Andrew J., assignor.)						
Pierce, Frank H., San José, Cal. Bicycle-stand	528,023	Oct. 23	2279	549	69	465
Pierce, Hiram D., Cleveland, Ohio. Pen-rack	525,620	Sept. 4	501	121	68	1245
Pierce, Isaac, West Bay City, Mich. Packing valve-stems	512,897	Jan. 16	1980	470	66	402
Pierce, Jonathan A. (See Day and Pierce.)						
Pierce, Joseph H., Glenwood Springs, Colo. Hydrant	517,061	Mar. 27	2233	529	66	1917
Pierce, Joseph H., and A. J. Dickson, Glenwood Springs, Colo. Pneumatic tire	520,536	May 29	2777	672	67	1112

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Pierce, Octavius, assignor to Underwriters Fire Sprinkler Company, Chicago, Ill. Auto-matic sprinkler-head	519,846	May 15	1600	391	67	865
Pierce, Octavius, assignor to Underwriters Fire Sprinkler Company, Chicago, Ill. Fire-extinguishing system	523,684	July 31	2624	652	63	552
Pierce, Ormel W., Olean, N. Y. Coffee or tea pot handle	527,182	Oct. 9	822	200	69	168
Pierce, W. Frank. (See Merrick, George H., assignor.)						
Pierce, W. Frank. (See Schroeder, Richard D., assignor.)						
Pierce, Walter S., New York, N. Y. Calcining apparatus	530,125	Dec. 4	87	23	69	1231
Pierceall, Francis X., et al. (See Robinson, William S., assignor.)						
Pierpoint, James, Pittsburg, Pa. Boiler	529,306	Nov. 13	1410	338 339	69	923
Pierpont, Frank H. (See Snow and Pierpont.)						
Pierrepont, Joshua H., Trenton, N. J. Holder for napkins, &c	529,186	Nov. 13	1192	286	69	882
Pierrot, Gustave A., et al. (See Bonehill, Louis R., assignor.)						
Piers, Thomas J., Jeffersonville, Ind. Steam-actuated valve	514,962	Feb. 20	1629	408	66	1193
Pierson, Daniel P., Pittsburg, Kans. Street-vender's cabinet	522,486	July 3	529	134	68	105
Pierson, Leroy D. (See Martin, Priestley, and Pierson.)						
Pietsch, Albert, St. Louis, Mo. Attachment for stringed instruments	523,373	July 24	2072	521	68	436
Pifer, A. P. (See Harris, William H., assignor.)						
Pihlstrom, John S. (See Wemple, Andrew, assignor.)						
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,970	Nov. 13	831	195	69	817
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,971	Nov. 13	832	195	69	818
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,972	Nov. 13	834	196	69	818
Pike, Charles F., Philadelphia, Pa. System of washing, concentrating, and amalgamating ores	522,973	Nov. 13	835	196	69	818
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,974	Nov. 13	836	197	69	819
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,975	Nov. 13	837	198	69	819
Pike, Charles F., Philadelphia, Pa. Amalgamator	522,976	Nov. 13	840	199	69	819
Pike, Charles F., Philadelphia, Pa. Suction-pipe for suction devices	522,977	Nov. 13	843	199	69	820
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,978	Nov. 13	844	199	69	820
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,979	Nov. 13	845	200	69	820
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,980	Nov. 13	847	200	69	821
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,981	Nov. 13	848	200	69	821
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,982	Nov. 13	850	201	69	821
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	522,983	Nov. 13	852	201	69	822
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	529,047	Nov. 13	950	224 225	69	839
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	529,080	Nov. 13	1009	244	69	849
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	529,187	Nov. 13	1193	287	69	882
Pike, Charles F., Philadelphia, Pa. Ore crnsher or concentrator	529,188	Nov. 13	1195	288 289	69	883
Pike, Charles F., Philadelphia, Pa. Ore washer or concentrator	529,307	Nov. 13	1412	339 340	69	923
Pike, Emma J., London, England. Suspensory belt	529,750	Nov. 27	2182	520	69	1091
Pike, James W., Wichita, Kans. Box for holding clothes-pins	516,279	Mar. 13	891	210	66	1636
Pike, Orville S., New Lisbon, Ohio. Automatic pressure-retaining valve for air-brakes	529,137	Nov. 13	1100	266	69	867
Pike, Sherman B., et al. (See Ruebel, Ernst, assignor.)						
Pike, William L., Groton, N. Y. Chopping-knife	522,562	Nov. 6	61	16	69	657
Pilcher, George M., Logansport, Ind. Ditching-machine	513,824	Jan. 30	3482	858	66	789
Pilcher, John V., Louisville, Ky. Automatic coupler for pneumatic organs	519,389	May 8	833	202	67	712
Pilcher, John V., Louisville, Ky. Button	521,042	June 5	520	123	67	1291
Pilcher, John V., Louisville, Ky. Button	521,418	June 12	1178	280	67	1427
Pile, John R. (See Smith and Pile.)						
Pile, John W., Marietta, Ind. Delivery-wagon	527,806	Oct. 23	1859	447	69	390
Pilgram, Ernst A. (See Weyhe, Hermann C. W., assignor.)						
Pilgram, Morris, Jersey City, N. J. Billiard-cue-tip fastener	526,842	Oct. 2	283	68	69	54
Pilkington, William W., St. Helen's, England. Making reflectors	514,495	Feb. 13	871	222	66	1035
Pilot Mountain Fly Excluder Company. (See Ashbarn, Jesse A., assignor.)						
Pinard, Zatique, deceased, Portland, Oreg.; J. Klippel, administrator. Combined balanced window sash and screen	512,624	Jan. 9	1478	356	66	290
Pinckney, Dempster M., Onondaga, N. Y. Sprinkling apparatus	522,229	July 3	93	21	68	18
Pindstoftte, Anders A., Copenhagen, Denmark. Bottle-corking machine	525,279	Aug. 28	2263	551	68	1120
Pindstoftte, Anders A., Copenhagen, Denmark. Bottling apparatus	526,086	Sept. 18	1331	309	68	1418
Pine, Arthur F., assignor of one-half to J. R. Johnson, Sylvan Lake, Wis. Hame-coupling	514,129	Feb. 6	240	58	66	899
Pine, Jackson D., near Lake View, Va. Farm-gate	525,230	Aug. 28	2183	533	68	1103
Pine, Norton H., Eureka, Cal. Hydraulic car-dumping device	514,662	Feb. 13	1145	285	66	1087
Pineo, Aubrey M., Gardner, Mass. Saw-guide	523,994	Aug. 7	47	11	68	670
Pingel, Carl G., Butte, Mont. Ore-concentrator	516,021	Mar. 6	467	108	66	1539
Pinkerton, Edward E., Sioux City, Iowa. Paper box	529,308	Nov. 13	1416	340	69	924
Pinkham, Frederick S., Everett, assignor, by mesne assignments, to A. J. Robinson, Boston, Mass. Clasp for smocking cloth	520,704	May 29	3072	744	67	1167
Pinkham, Frederick S., Everett, Mass., assignor to Pinkham Manufacturing Company, of Maine. Casket-lining	521,419	June 12	1179	280	67	1427
Pinkham Manufacturing Company. (See Pinkham, Frederick S., assignor.)						
Pinnell, Jones T., assignor of two-thirds to F. E. Swartz, Dunmore, Pa., and C. H. Fisher, Binghamton, N. Y. Fruit-jar-top straightener	523,082	July 17	1546	387	68	324
Pinney, Adam, Akron, Ohio. Water-heater	523,752	July 31	2750	683	68	574
Pioneer Thrasher Company. (See Rhodes, John W., assignor.)						
Piper, Edward E., Portland, Me. Curtain-holding device	516,280	Mar. 13	892	210	66	1636
Piper, Edward E., and G. H. Davis, Portland, Me. Curtain-holding device	515,924	Mar. 6	300	71	66	1509
Piper, Fred A. (See Hoyt, William C., assignor.)						
Piper, Orin, Manchester, N. H. Picking mechanism for looms	515,533	Feb. 27	2574	637	66	1381
Piper, Orin, Manchester, N. H., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Loom-shuttle	516,108	Mar. 6	601	141	66	1565
Piper, Orin, and J. E. Newton, Manchester, N. H. Weft stop-motion for looms	515,532	Feb. 27	2573	637	66	1380
Piper, Orin, and J. E. Newton, Manchester, N. H. Weft-fork	525,965	Sept. 11	1128	257	68	1369
Piper, William M., assignor to Baker Chain and Wagon Iron Manufacturing Company, Allegheny, Pa. Breast chain	515,359	Feb. 27	2295	569	66	1328
Pipes, William S., and F. T. Gulher, Waynesburg, Pa. Bicycle-support	518,698	Apr. 24	2181	545	67	444
Pipher, William E. A., Parker's Landing, Pa. Harness	523,778	July 31	2790	693	68	581
Pirkil, John, Brooklyn, N. Y. Anchor or supporting plate	526,410	Sept. 25	1924	457	68	1543
Pirkil, John, Brooklyn, N. Y. Anchor or supporting plate	526,411	Sept. 25	1925	458	68	1543

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Pircebl, Franz, Brooklyn, N. Y. Making resinsates of metals.....	521,270	June 12	917	67	1377
Pischof, Alfred von. (See Patigler, Josef, assignor.)						
Pitcher, Frank C. (See Wellman, Willard F., assignor.)						
Pitel, Conrad M., assignor to Edward Miller & Company, Meriden, Conn. Suspending device.....	511,795	Jan. 2	78	20	66	18
Pitel, Conrad M., assignor to Edward Miller & Company, Meriden, Conn. Suspending device.....	511,967	Jan. 2	402	93	66	77
Pitt, William A., Manhasset, N. Y. Transplanter.....	516,745	Mar. 20	1694	401	66	1799
Pitt, William R., Brooklyn, N. Y. Folding gate.....	514,663	Feb. 13	1146	286	66	1087
Pitt, William R., New York, N. Y. Folding gate.....	522,801	July 10	1089	269	68	221
Pittman, Harrison, Industry, assignor of two-thirds to J. McCarthy and S. Reed, Astoria, Ill. Check-row corn-planter.....	513,198	Jan. 23	2444	590	66	559
Pitts Agricultural Works. (See Todd, Marquis J., assignor.)						
Pitts, George F. (See Lamb, Thomas G., assignor.)						
Pittsburg Chemical Company. (See Hood, Charles F., assignor.)						
Pittsburg Plate Glass Company. (See Ford, Edward, assignor.)						
Pix, Leopold, London, England. Car-coupling.....	512,661	Jan. 9	1545	371	66	304
Place, James F., Montclair, N. J., assignor to C. S. Upton, New York, N. Y. Oil-stove.....	520,498	May 29	2719	658	67	1101
Place, James F., Montclair, N. J., assignor to C. S. Upton, New York, N. Y. Oil stove and lamp.....	520,499	May 29	2721	659	67	1101
Place, Richard L. (See Bairot, John, assignor.)						
Placet, Emile, and J. Bonnet, Paris, France. Electrodeposition of chromium.....	526,114	Sept. 18	1378	.....	68	1427
Plagman, Adolph, Davenport, Iowa. Wheel-cultivator.....	525,231	Aug. 28	2185	533	68	1103
Plano Manufacturing Company. (See Hunt, George G., assignor.)						
Plant, Henry B., New York, N. Y. Refrigerator-car.....	523,374	July 24	2074	{ 521 522 523 }	68	436
Platt Brothers & Co. (See Greaves and Wardle, assignors.)						
Platt Brothers & Company. (See Richardson and Fidler, assignors.)						
Platt, Edward T., assignor of two-thirds to W. Freise and C. O. Moyer, Chicago, Ill. Brush for dynamo-electric machines.....	530,717	Dec. 11	1136	276	69	1436
Platt, Irving G., Waterbury, Conn. Button-setting machine.....	517,622	Apr. 3	337	79	67	66
Platt, Irving G., Waterbury, Conn. Mechanism for assembling button parts.....	520,999	June 5	443	106	67	1277
Platt, James F., Sterling, Ill. Hay-loader.....	526,537	Sept. 25	2118	{ 507 508 }	68	1578
Platt, John, London, England. Method of and means for manufacturing card-teeth.....	525,997	Sept. 11	1175	268	68	1377
Platt, Peter J., assignor of one-half to J. Lorsch, New York, N. Y. Book-mark.....	512,747	Jan. 16	1695	405	66	347
Platt, Wilbur J., assignor of one-half to T. D. Peck, Cleveland, Ohio. Sad-iron.....	523,236	July 17	1840	463	68	377
Plecker, William J., Peoria, Ill. Bending-machine.....	518,765	Apr. 24	2307	573	67	465
Plecker, William J., Peoria, Ill. Punch.....	518,766	Apr. 24	2310	574	67	466
Plecker, William J., Peoria, Ill. Conductor-pipe and joining edges of same.....	518,767	Apr. 24	2311	574	67	466
Plenske, Johann, St. Petersburg, Russia. Cooking apparatus.....	515,360	Feb. 27	2296	{ 569 570 }	66	1328
Pless Dredging and Reclamation Company. (See Pless, William B., assignor.)						
Pless, William B., Stockton, Cal., assignor to Pless Dredging and Reclamation Company, of Nevada. Boom for dredges.....	512,898	Jan. 16	1981	470	66	402
Pleukharp Barrel Machine Company. (See Pleukharp, James, assignor.)						
Pleukharp Barrel Machine Company. (See Pleukharp and Liggett, assignors.)						
Pleukharp, James, assignor to Pleukharp Barrel Machine Company, Columbus, Ohio. Preparing bung-staves.....	513,339	Jan. 23	2670	647	66	604
Pleukharp, James, and T. Schramm, Columbus, Ohio. Machine for flaring and bending hoops.....	522,487	July 3	530	135	68	105
Pleukharp, James, and W. K. Liggett, assignors to Pleukharp Barrel Machine Company, Columbus, Ohio. Barrel-setting-up device.....	513,651	Jan. 30	3222	791	66	739
Plitt, George. (See Zoeller, Matthias, assignor.)						
Plöckel, Paul, Sr., Cleveland, Ohio. Closed conduit for electric railways.....	520,938	June 5	346	84	67	1260
Plöger, Wilhelm. (See Welcker, Emma M., assignor.)						
Plowman, Joseph G., and H. E. Kittell, White Pigeon, Mich. Grain-cleaner.....	520,333	May 22	2444	593	67	1035
Plume & Atwood Manufacturing Company. (See Atwood, Lewis J., assignor.)						
Plume & Atwood Manufacturing Company. (See Echols, Frank G., assignor.)						
Plummer, Annie M., Glencoe, Ill. Water-bag and food-warmer.....	526,501	Sept. 25	2069	492	68	1569
Plummer, Frank O., et al. (See Stearns, William E., assignor.)						
Plummer, John E., Waterville, N. Y. Bed-rest.....	517,623	Apr. 3	338	80	67	66
Plummer, William S., St. Louis, Mo. Smokeless boiler.....	514,869	Feb. 13	1444	373	66	1151
Plummer, William S., St. Louis, Mo. Machine for cutting corn from cobs.....	523,175	July 17	1739	436	68	356
Plummer, William S., assignor of one-third to A. M. Morse, St. Louis, Mo. Smokeless boiler-furnace.....	518,160	Apr. 10	1234	310	67	240
Plunkett, Michael H., Baltimore, Md. Steam-boiler.....	522,271	July 3	175	48	68	38
Plunkett, Michael H., Baltimore, Md. Water-tube boiler.....	522,272	July 3	177	48	68	36
Pneumatic and Electric Tool Company. (See Drawbaugh, Daniel, assignor.)						
Pneumatic Brake Company. (See Speed, Francis M., assignor.)						
Pneumatic Press Company. (See Jordan, Edmund, assignor.)						
Pneumatic Tyre Company. (See Welch, Charles K., assignor.)						
Pneumatic Tyre and Booth's Cycle Agency. (See Welch, Charles K., assignor.)						
Pneumatic Wood Carving Machine Syndicate. (See Tyler and Vesian, assignors.)						
Poage, John N., College Hill, Ohio. Water-column.....	531,598	Dec. 25	2679	643	69	1754
Pebst, David, Shreveport, La. Window-shutter.....	528,689	Nov. 6	302	74	69	707
Poché, Simeon A., Donaldsonville, La. Evaporating-pan.....	517,765	Apr. 3	590	145	67	114
Pocock, Francis A., Scranton, Pa. Traction device for canals.....	521,865	June 26	1967	475	67	1605
Poe, Augusta L. (See Claudy and Klusmeyer, assignors.)						
Poe, George H., Kenton, Ohio. Windmill.....	523,484	July 24	2277	572	68	471
Poe, John J. E. (See Raymond, Henry, assignor.)						
Poetzel, Michael. (See Baenmle, John, assignor.)						
Poggendorf, August, Rochester, N. Y. Steam-boiler.....	529,805	Nov. 27	2269	{ 541 542 }	69	1108
Pohlig, Gustav, et al. (See Schmidt, Oscar K., assignor.)						
Pohlit, Carl. (See Gross and Pohlit.)						
Pohlman, James. (See Brindle, Robert, assignor.)						
Pokony, Henry, Philadelphia, Pa. Gas-engine.....	514,271	Feb. 6	508	126	66	949
Pole, Benjamin C., Deanewood, D. C. Differentially-g geared electric motor.....	527,023	Oct. 2	577	139	69	109
Poie, John F. (See Clift, Edmund E., assignor.)						
Polhamus, Albert A., San Diego, Cal. Method of and apparatus for preserving piles.....	518,354	Apr. 17	1599	{ 395 396 }	67	325

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Polis, Horace, assignor of one-half to L. F. Mooney, Philadelphia, Pa. Wrench and bit-stock	526,658	Sept. 25	2318	555	68	1615
Polis, Horace, assignor of one-half to L. F. Mooney, Philadelphia, Pa. Railway-switch	529,189	Nov. 13	1197	289	69	883
Polites, Nicholas D., Philadelphia, Pa. Cable railway	524,788	Aug. 21	1401	342	68	948
Polivka, Thomas, assignor to American Mosaic Brick and Tile Company, Chicago, Ill. Kiln for baking bricks, tiles, pottery, &c.	519,344	May 8	746	{ 184 185 }	67	695
Polk, Robert H., Savannah, Ga. Busy-test for multiple switchboards	527,393	Oct. 9	1177	288	69	234
Pollard, Edward T., New York, N. Y. Cutter for cigarette-machines	529,138	Nov. 13	1103	267	69	867
Pollard, Edward T., New York, N. Y. Cigarette-machine	530,718	Dec. 11	1137	{ 276 277 }	69	1436
Pollard, James, Hyde, assignor to Mather & Platt, Limited, Manchester, England. Apparatus for treating fabrics	513,026	Jan. 16	2185	521	66	438
Polk, Lewis C., Waterville, Me. Top-prop for buggies	527,183	Oct. 9	823	200	69	168
Pollard, Richard. (See Fuller Maybell, assignor.)						
Pollard, Robert and S., Hallsville, Mo. Plumb-level	526,458	Sept. 25	2011	478	68	1558
Pollard, Six. (See Pollard, Robert and S.)						
Pollard, William B., Hot Springs, Ark. Device for administering medicines	518,161	Apr. 10	1237	310	67	241
Pollock, George W. (See Dickerhoof, William H., assignor.)						
Pollock, James R., Mansfield, Ohio. Carrier apparatus	517,292	Mar. 27	2619	615	66	1992
Pollock, James R., Mansfield, Ohio. Cash-carrier	522,917	July 10	1268	314	68	255
Pollock, Walter W. (See Griffin, Ellsworth, assignor.)						
Polsdorfer & Sons, J. H. (See Northall, William H., assignor.)						
Polsgrove, Amelia D., Lewistown, Pa. Wood-preserving compound	529,834	Nov. 27	2326	.....	69	1119
Polte, Hubert, Remscheid-Hasten, Germany. Apparatus for coiling wire	517,964	Apr. 10	910	{ 227 228 }	67	187
Polukanis, Jerzy, Bloomfield, N. J. Organ	519,925	May 15	1724	423	67	888
Pomeroy, Harry D. (See Barnes, Pomeroy, and Keyes.)						
Pomeroy, Henry R., assignor of one-half to A. F. Kopp, Indianapolis, Ind. Hydrogen-gas machine	517,062	Mar. 27	2234	529	66	1917
Pomeroy, Isaac, Newark, N. J. Combined stopper and filler for bottles	531,133	Dec. 18	1849	433	69	1582
Pomeroy, James U., assignor of one-half to C. S. Upton, New York, N. Y. Lamp	517,361	Mar. 27	2729	642	66	2015
Pomeroy, Le Dru R., Cleveland, Ohio, assignor to Van Wagoner & Williams Hardware Company, Jersey City, N. J. Spring-hinge	518,626	Apr. 24	2054	511	67	421
Pomeroy, Lewis R., et al. (See Smith, Calvin A., assignor.)						
Pontier, Henry. (See Mundry and Pontier.)						
Pond, Lewis W., Rochester, N. Y. Clothes-drier	526,115	Sept. 18	1382	322	68	1427
Ponten, Anders, New York, N. Y. Centrifugal butter-extractor	521,043	June 5	522	123	67	1292
Ponten, Anders, and J. V. Skoglund, New York, N. Y. Apparatus for centrifugal separation of compound liquids	528,690	Nov. 6	303	74	69	701
Pool, James P., Brooklyn, N. Y. Boat-ballasting device	521,388	June 12	1128	266	67	1417
Poole, Benjamin. (See Foster, Lucian M., assignor.)						
Poole Brothers. (See Souther, Calvin N., assignor.)						
Poole, Garrett W., assignor, by mesne assignments, to New Jersey Blower Company, Newark, N. J. Centrifugal blower	513,057	Jan. 16	2228	535	66	448
Poole, Garrett W., assignor, by mesne assignments, to New Jersey Blower Company, Newark, N. J. Centrifugal blower	514,381	Feb. 6	681	172	66	981
Poole, Garrett W., assignor, by mesne assignments, to New Jersey Blower Company, Newark, N. J. Heating and smoke-consuming apparatus	515,718	Feb. 27	2870	{ 715 716 }	66	1439
Poole, George. (See Wyman and Poole.)						
Poole, George F., Cleveland, Ohio. Exercising-machine	518,967	May 1	48	13	67	545
Poole, Jacob O., assignor to New Jersey Blower Company, Newark, N. J. Centrifugal blower	514,625	Feb. 13	1087	271	66	1075
Poole, Joseph, Manchester, England. Wire-gage	513,596	Jan. 30	3117	766	66	722
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Lister-cultivator	521,547	June 19	1424	331	67	1487
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Wheel-cultivator	521,549	June 19	1425	331	67	1487
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Device for attaching cultivator-shovels	521,549	June 19	1427	331	67	1487
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Wheel-plow	523,176	July 17	1741	436	68	359
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Draft-equalizer	527,074	Oct. 9	651	158	69	137
Poole, Staley D., assignor to Deere & Company, Moline, Ill. Spreader-rod	528,236	Oct. 30	2645	637	69	547
Pooler, Royal Z., St. Joseph, Mo. Rotary engine	516,022	Mar. 6	469	108	66	1539
Pooley, Edward F., et al. (See Pooley, George F., assignor.)						
Pooley, Frank D., et al. (See Pooley, George F., assignor.)						
Pooley, George F., Brooklyn, Md., assignor of one-half to E. F. and F. D. Pooley, Philadelphia, Pa. Shirt	523,593	July 24	2455	{ 615 616 }	68	505
Poor, Albert. (See Beardslee, William F., assignor.)						
Poor, George H., Boston, Mass. Mechanism for raising or lowering berths	520,760	May 29	3159	{ 765 766 }	67	1182
Pope, Charles E., Kankauna, Wis. Paper-slitting machine	516,746	Mar. 20	1697	402	66	1800
Pope, Edward J., assignor of three-fourths to Badger Pearl Button Company, Eau Claire, Wis. Machine for forming button-blanks	529,950	Nov. 27	2521	608	69	1155
Pope, Edwin, Quebec, Canada. Telephone-exchange system	515,939	Mar. 6	321	77	66	1513
Pope, Edwin, Quebec, Canada. Telephone system	515,940	Mar. 6	324	77	66	1514
Pope, Edwin, Quebec, Canada. Printing-telegraph	521,550	June 19	1428	{ 332 333 }	67	1488
Pope, Everett M., Quincy, assignor to M. N. Bray, Boston, Mass. Rivet-setting machine	523,730	July 31	2709	671	68	566
Pope, Harry M., Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Bicycle	514,382	Feb. 6	682	172	66	981
Pope, Harry M., Hartford, Conn., assignor to Pope Manufacturing Company, Boston, Mass. Dust-guard for pedal-bearings	520,537	May 29	2779	672	67	1112
Pope, John L., Cleveland, Ohio. Pulley-block	512,990	Jan. 16	2130	{ 506 507 }	66	429
Pope, John L., Cleveland, Ohio. Rail-joint-securing device	513,340	Jan. 23	2672	647	66	604
Pope, John L., Cleveland, Ohio. Automatic locking device for railway-joints	513,415	Jan. 23	2788	682	66	626
Pope, John L., Cleveland, Ohio. Paving-block	519,873	May 15	1649	401	67	873
Pope Manufacturing Company. (See Copeland, James S., assignor.)						
Pope Manufacturing Company. (See Day, George H., assignor.)						
Pope Manufacturing Company. (See Elliott, Sterling, assignor.)						
Pope Manufacturing Company. (See Jacobs, Arthur L., assignor.)						
Pope Manufacturing Company. (See Pope, Harry M., assignor.)						
Pope, Wallace M., Cincinnati, Ohio, assignor to Ault & Wiborg Company, of Ohio. Composition of matter	521,177	June 12	757	.....	67	1347
Pope, William H., Newburg, N. Y. Hand-lift for coffins	526,134	Sept. 18	1413	329	68	1434
Pope, William W., Slough, England. Vessel for containing gas under pressure	526,257	Sept. 18	1625	381	68	1472

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Popham, Richard M. (See Phillippi, George W., assignor.)						
Poplawsky, Josef T., Bremerhaven, Germany. Tire for cycle-wheels	516,833	Mar. 20	1824	432	66	1824
Popp, Georg, and J. H. Becker, Frankfort-on-the-Main, Germany. Sterilizing by steam	516,509	Mar. 13	1284	305	66	1707
Popp, Georg, and J. H. Becker, Frankfort-on-the-Main, Germany. Sterilizing milk, &c.	524,649	Aug. 14	1168	237	68	893
Popp, Georg, and H. Becker, Frankfort-on-the-Main, Germany. Sterilizing apparatus	529,190	Nov. 13	1199	289 290	69	883
Poppe, Emil O., Kirchberg, Germany. Water-closet	526,412	Sept. 25	1926	458 459	68	1543
Popping, Joseph, New York, N. Y. Washing-machine	512,484	Jan. 9	1274	306	66	252
Poppowitsch, Edward, Brooklyn, N. Y. Electrical fishing apparatus	522,352	July 3	302	78	68	60
Porteous, James, Fresno, Cal. Harrow	522,086	June 26	2373	571	67	1681
Porteous, James, Fresno, Cal. Cultivator	524,561	Aug. 14	1028	253	68	866
Porteous, James, Fresno, Cal. Raisin-grader	524,562	Aug. 14	1029	254	68	866
Porteous, John, Cincinnati, Ohio. Water-closet coupling	531,425	Dec. 25	2375	568	69	1695
Porter, Arthur T., assignor to United States Projectile Company, Brooklyn, N. Y. Process of and apparatus for making gear-wheels	521,178	June 12	757	177 178	67	1347
Porter, Arthur T., assignor to United States Projectile Company, Brooklyn, N. Y. Making dies for gear-forging	521,179	June 12	760	178	67	1348
Porter, Benjamin, Fullerton, N. D. Nut-lock	524,864	Aug. 21	1533	374	68	971
Porter, Charles F., Brockton, Mass. Foot-brake for bicycles	529,627	Nov. 20	1975	471	69	1046
Porter, Charles F., Brockton, Mass. Toe-clip for bicycle-pedals	521,951	Nov. 27	2524	603	69	1155
Porter, Charles T., Montclair, N. J. Steam-engine	517,982	Apr. 10	936	234 235 236	67	191
Porter, Charles T., Montclair, N. J. Steam-engine	517,983	Apr. 10	941	236 237	67	192
Porter, Daniel R., Arlington, assignor to J. H. Clarke, Somerville, Mass. Thread holder and cutter	515,790	Mar. 6	102	24	66	1473
Porter, Freeman G., et al. (See Fuller, Franklin P., assignor.)						
Porter, George W. (See Blanchard and Lambie, assignors.)						
Porter, Henry B., New York, N. Y. Electrical motor	523,995	Aug. 7	48	11	68	670
Porter, Henry K., Boston, Mass. Whiffle-tree-plate	511,796	Jan. 2	79	20	66	13
Porter, Henry K., Boston, Mass. Bolt-clippers	520,896	June 5	262	63	67	1245
Porter, Henry W., assignor of one-half to F. N. Manross, Forestville, Conn. Coin-controlled musical toy bank	523,277	Oct. 30	2712	654	69	560
Porter, Henry W., assignor of one-half to F. N. Manross, Forestville, Conn. Musical clock	523,730	Nov. 6	374	91	69	715
Porter, Henry W., assignor of one-half to F. N. Manross, Forestville, Conn. Musical clock	520,835	Nov. 27	2327	554	69	1119
Porter, Joseph E., Ottawa, Ill. Hay-carrier and track	518,695	Apr. 24	2325	621	67	506
Porter, Joseph E., Ottawa, Ill. Hay elevator and carrier	519,270	May 1	591	143	67	652
Porter, Lansing L., Evanston, Ill. Puzzle	521,212	Aug. 7	422	100	68	738
Porter, Lemuel, Providence, R. I. Reciprocating clutch	524,530	Aug. 14	974	239	68	886
Porter, Samuel G. (See Fearn, Oris E., assignor.)						
Porter, Thomas J. (See Phillips, William A., assignor.)						
Porterfield, Howard H. (See Stofer, William A., assignor.)						
Portevin, Hippolyte, Rheims, France. Bottle-washer	514,334	Feb. 6	615	156 157	66	968
Pöschel, Robert, Goessnitz, Germany. Button	526,739	Oct. 2	117	28	69	23
Possons, Minard A., Cleveland, Ohio. Rail clamping or fastening device	517,236	Mar. 27	2321	592	66	1974
Post, Andrew D., assignor of one-half to G. E. Post, Keyport, N. J. Oyster-dredge	521,918	June 26	2072	497	67	1636
Post, Charles E. (See Orvis, John J., assignor.)						
Post, Garret E. (See Post, Andrew D., assignor.)						
Post, George E., Newark, N. J. Blacksmith's forge	519,072	May 1	230	54	67	580
Post, Howard A., assignor of one-half to F. W. Wright, Wichita, Kans. Combination-wrench	517,393	Mar. 27	2316	658	66	2032
Post, William E., Melrose, and S. J. Nevins, Boston, Mass. Matrix molding and drying apparatus	512,215	Jan. 2	807	195 196	66	153
Postlethwaite, Frederic B., Natchez, Miss. Strainer attachment for barrels	520,168	May 22	2167	527	67	982
Postley, Charles A., deceased; C. E. Postley, administrator, Washington, D. C. Grain-binding machine	514,029	Feb. 6	84	21, 22	66	870
Postley, Charles E., administrator. (See Postley, Charles A.)						
Poston, Elias M., Springfield, Ohio. Secondary battery	523,740	Nov. 6	375	91	69	715
Poston, Irvin G., Veedsburg, Ind. Paving-block	529,952	Nov. 27	2525	608	69	1155
Potteiger, Henry W., and W. A. Kohman, Reading, Pa. Photograph-display cabinet	521,668	June 19	1629	381	67	1525
Potter, Albertus D. (See Dennis, Henry P., assignor.)						
Potter, Alward J., New Hartford, N. Y. Magneto-electric machine	514,241	Feb. 6	470	115	66	941
Potter, Charles, assignor to Potter Printing Press Company, Plainfield, N. J. Web-sup- porting device for printing-presses	527,878	Oct. 23	1994	478	69	413
Potter, Charles, assignor to Potter Printing Press Company, Plainfield, N. J. Web-sup- porting device for printing-presses	527,879	Oct. 23	1996	479	69	413
Potter, Charles, Jr., et al. (See Brooks, John, assignor.)						
Potter, Charles, Jr., assignor to Potter Printing Press Company, Plainfield, N. J. Cyl- inder printing-machine	527,880	Oct. 23	1998	479	69	414
Potter, Charles N. (See Tollner and Potter.)						
Potter, Charles W., Athens, and J. C. Hewitt, Mineral, Ohio. Box laundry-iron	524,732	Aug. 21	1312	321	68	932
Potter, F. M. (See Billings, George W., assignor.)						
Potter, George D., assignor of five-eighths to C. M. Whitlaw, Wallace, Idaho, and E. C. Arnoldi, Spokane, Wash. Ore-sampling machinery	523,731	July 31	2712	671 672	68	566
Potter, Henry N., Allegheny, assignor to Westinghouse Electric and Manufacturing Com- pany, Pittsburgh, Pa. Method of and means for synchronizing alternating-current motors or generators	529,461	Nov. 20	1703	406	69	996
Potter, Robert B., Hillburn, N. Y. Toilet-soap server	517,624	Apr. 3	340	80, 81	67	66
Potter, Robert B., Hillburn, N. Y. Switch and signal lever	529,407	Nov. 20	1595	379	69	976
Potter, James C., Pawtucket, R. I. Carding-engine	519,640	May 8	1272	305 306	67	789
Potter, James C., Pawtucket, R. I. Evening mechanism for cotton-openers, &c.	520,334	May 22	2447	594	67	1035
Potter, James C., Pawtucket, R. I. Revolving comb for fiber-feeding machines	523,818	July 31	2262	711	68	596
Potter, James C., Pawtucket, R. I. Feeding mechanism for machinery for opening and preparing cotton	524,650	Aug. 14	1169	238	68	893
Potter, James C., Pawtucket, R. I. Beater for use in machines for opening cotton	524,695	Aug. 14	1245	307	68	906
Potter, James C., Pawtucket, R. I. Evening mechanism for cotton-openers	524,730	Aug. 21	1369	320	68	931
Potter, James C., Pawtucket, R. I. Dust or cleaning trunk for cotton-openers or like ma- chinery	526,326	Sept. 18	1743	412	68	1497
Potter, James C., Pawtucket, R. I. Feeding mechanism for machines for opening cot- ton	528,389	Oct. 30	2299	702	69	592

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Potter, James C., Pawtucket, R. I. Feed-regulating device for machines for opening and preparing cotton	529,567	Nov. 20	1891	{ 449 450	69	1029
Potter, Joseph L., Indianapolis, Ind. Trench-machine	524,731	Aug. 21	1310	321		
Potter, Louis K. (See King, Willis L., assignor.)						
Potter Printing Press Company. (See Brooks, John, assignor.)						
Potter Printing Press Company. (See Potter, Charles, assignor.)						
Potter, Samuel K., et al. (See Hosack, Thomas T., assignor.)						
Potter, Sarah A., Harper, Kans. Invalid-chair	531,330	Dec. 25	2212	530	69	1604
Potter, William B., Lynn, assignor to General Electric Company, Boston, Mass. Controller for electric motors	524,396	Aug. 14	760	{ 185 186 187	68	818
Potter, William B., Schenectady, N. Y., assignor to General Electric Company, of New York. Running compound-wound dynamo-electric machines in multiple	527,075	Oct. 9	652	158		137
Potter, Wilson L., Hartford, Conn. Gas-heater and germ-destroyer	512,056	Jan. 2	540	127	66	103
Potter, Winfield S., St. Paul, Minn. Extracting impurities from hematite ores	518,510	Apr. 17	1861	462	67	372
Pottle, George F., Medford, Mass. Corner and hinge piece for trunks	522,182	June 26	2533	609	67	1712
Pottle, George W. (See Richey, Virgil G., assignor.)						
Potts, William Q., assignor of one-half to S. R. Haws, Ardmore, Pa. Tool-box	513,726	Jan. 30	3346	825	66	763
Potts, William Q., assignor of one-half to S. R. Haws, Ardmore, Pa. Fastener for gloves, shoes, &c.	513,727	Jan. 30	3347	826	66	763
Pouf�, Charles, and C. Lock, Philadelphia, Pa. Fire-engine and pump	528,563	Nov. 6	62	16, 17	69	658
Poulsen, Christen R., Horsens, Denmark. Process of and apparatus for making ozone	513,825	Jan. 30	3485	859	66	790
Poulson, Niels, Fort Hamilton, N. Y. Column	521,320	June 12	1009	237	67	1393
Poupard, Mary E., London, England. Sectional horseshoe	526,049	Sept. 18	1263	293	68	1406
Poupard, Mary E., assignor to Mail Horse Shoe Syndicate, (Foreign Patents,) Limited, London, England. Horseshoe	526,050	Sept. 18	1265	293	68	1407
Poupard, Mary E., assignor to Mail Horse Shoe Syndicate, (Foreign Patents,) Limited, London, England. Segmental horseshoe	526,051	Sept. 18	1266	293	68	1407
Powell, Charles E., Philadelphia, Pa. Trolley	531,331	Dec. 25	2215	530	69	1664
Powell, Clarence A. (See Courtright and Powell.)						
Powell, Edward. (See Powell, John G., assignor.)						
Powell, Edward J., assignor of one-third to H. T. Powers, Sunny South, Cal. Amalgamator	522,488	July 3	531	135	68	105
Powell, Frank A. (See Lemke, Charles M., assignor.)						
Powell, John G., assignor to himself and E. Powell, Philadelphia, Pa. Extra-thread-feed- ing device for knitting-machines	523,866	July 31	2949	{ 735 736 737	68	612
Powell, John G., assignor to himself and E. Powell, Philadelphia, Pa. Straight-knitting machine	523,867	July 31	2954	{ 736 737 738		
Powell, John R., Plymouth, Pa. Miner's squib	518,699	Apr. 24	2182	545	67	444
Powell, John W., Smethwick, assignor to Holt & Willetts, Cradley Heath, England. Automatic brake for pulley-blocks	522,646	Nov. 6	229	57	69	687
Powell, Lucie L., Yardville, N. J. Ladle-snpport	517,293	Mar. 27	2622	615	66	1993
Power, John J., Pittsburg, Pa. Apparatus for molding and blowing glass bottles, &c.	522,671	July 10	847	210	68	180
Power, Jos� R., Malaga, Spain. Apparatus for preventing fermentation	513,199	Jan. 23	2445	{ 590 591	66	559
Power, Nicholas, assignor to P. Braender, New York, N. Y. Fluid-ejector	519,618	May 8	1232	296		783
Power, William A., assignor of one-half to P. M. Thomas, Charlotte, Mich. Automatic tension-regulator	519,617	May 8	1230	295	67	782
Powers, Albert D., Owensborough, Ky. Pulverizer and harrow	522,489	July 3	533	136	68	106
Powers, Daniel E., New York, N. Y., assignor of three-fourths to H. H. Hull, Jersey City, N. J. Oyster-dredge	525,280	Aug. 28	2265	551	68	1120
Powers, H. T. (See Powell, Edward J., assignor.)						
Powers, James, New York, N. Y. Machine for cutting toothpicks	517,625	Apr. 3	342	81	67	67
Powers, Lyman A., assignor of one-half to H. E. Roethe, Fennimore, Wis. Dust-pan	518,273	Apr. 17	1445	361	67	297
Powers, Michael A. (See Young, Samuel, assignor.)						
Powers, Richard M., Norwich, Conn. Scuttle-ladder	512,322	Jan. 9	977	{ 239 240	66	197
Powers, William H., et al. (See Curtiss, Willard, assignor.)						
Powers, William H., Grand Rapids, Mich. Veneer-cutting machine	531,218	Dec. 18	2010	477	69	1611
Powers, William T., et al. (See Curtiss, Willard, assignor.)						
Powter, Nathaniel B., New York, N. Y. Phosphate fertilizer	517,661	Apr. 3	417	.....	67	80
Powter, Nathaniel B., New York, N. Y. Making fertilizers	517,662	Apr. 3	418	.....	67	80
Powter, Nathaniel B., assignor to S. M. Roosevelt, New York, N. Y. Utilizing garbage and similar waste products	530,126	Dec. 4	89	23	69	1231
Pozdena, Gustave, and F. Churan, Chicago, Ill. Fire-mask	521,939	June 26	2115	507	67	1634
Prader, Andrew, assignor of one-fourth to J. D. Horwitz, Spokane, Wash. Treadle attachment	514,272	Feb. 6	510	126	66	949
Prahar, Louis B., Brooklyn, N. Y. Bag or purse frame	515,166	Feb. 20	1952	487	66	1252
Prahar, Louis B., Brooklyn, N. Y. Corner or frame for pocket-books, &c.	520,705	May 29	3074	744	67	1167
Prall, Cornelius. (See Underwood and Prall.)						
Praray, Charles A., assignor of one-half to C. R. Makepeace, Providence, R. I. Building	518,274	Apr. 17	1446	361	67	297
Pr�sil, Francis, Prague, Austria-Hungary. Transportable metallic bridge	515,445	Feb. 27	2434	603	66	1354
Prather, Willis M., Kansas City, Mo. Submarine sounding apparatus	525,362	Sept. 4	72	20	68	1164
Pratt, Arthur L., Kalamazoo, Mich. Coin-controlled game apparatus	531,469	Dec. 25	2465	587	69	1712
Pratt, Charles E., assignor to International Register Company, Chicago, Ill. Fare-regis- ter	512,057	Jan. 2	542	128	66	104
Pratt, Eugene O. (See Field and Pratt.)						
Pratt, Francis A., assignor to Pratt & Whitney Company, Hartford, Conn. Tool-holder	517,167	Mar. 27	2410	568	66	1952
Pratt, Francis B., Canton, Miss. Inkstand	523,862	Nov. 6	499	121	69	737
Pratt, Henry C., Canandaigua, N. Y. Tension device for wire fences	514,130	Feb. 6	241	53	66	900
Pratt, Henry C., Canandaigua, N. Y. Wire fence	522,103	Oct. 23	2415	{ 584 585	69	490
Pratt, Henry L. (See McCoy and Pratt.)						
Pratt, John C., Middletown, Conn., assignor of one-half to J. Morgan, Springfield, Mass. Locking-clamp	514,567	Feb. 13	965	249	66	1057
Pratt, John C., Middletown, Conn., assignor of one-half to J. Morgan, Springfield, Mass. Fruit-picker	516,728	Mar. 20	1664	{ 394 395 396	66	1794
Pratt, Nat. W., Brooklyn, N. Y. Device for fastening hand-hole plates	517,885	Apr. 10	763	{ 190 191 192		
Pratt, Nat. W., Brooklyn, N. Y. Expanding-tool	527,155	Oct. 9	782	191	69	160
Pratt, Nat. W., Brooklyn, N. Y. Tube-joint for sectional boilers	527,883	Oct. 23	2003	480	69	414
Pratt, Seymour A., Pontiac, Mich. Ironing-machine	528,986	Nov. 13	853	202	69	822
Pratt, Spencer, London, assignor of one-fourth to R. Watney, Brighton, England. Mak- ing starch containing solutions for use in brewing, distilling, &c.	524,651	Aug. 14	1171	288	68	894

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Pratt, Theodore P., Boston, assignor to J. Wilkinson, Everett, Mass. Electric lock	526,909	Oct. 2	405	101	69	75
Pratt, Walter C., assignor of two-thirds to G. A. Cockburn and J. C. French, Lansing, Mich. Wire-and-slat-fabric-weaving machine	514,496	Feb. 13	872	222	66	1035
Pratt & Whitney Company. (See Cooley, Charles H., assignor.)						
Pratt & Whitney Company. (See Kent, Albert H., assignor.)						
Pratt & Whitney Company. (See MacCord, Charles W., assignor.)						
Pratt & Whitney Company. (See Pratt, Francis A., assignor.)						
Pratt, William B., Rahway, N. J. Ink-well	530,796	Dec. 11	1267	306	69	1461
Pratt, William H., and J. Brunner, Mt. Vernon, Ohio. Turn-table	517,126	Mar. 27	2338	551	66	1939
Prannegger, Ferdinand, Graz, Austria-Hungary, assignor of one-half to H. L. B. Toobe, } Hull, England. Type-setting machine	524,692	Aug. 14	1234	{ 301 302 303 304 305 306 307 }	68	905
Prannegger, Ferdinand, Graz, Austria-Hungary, assignor of one-half to H. L. B. Toobe, } Hull, England. Type-distributing machine	524,693	Aug. 14	1239	{ 305 306 307 }	68	905
Prawatke, August, Dresden, Germany, assignor to Gas Traction Company, Limited, London, England. Driving-gear for locomotives	526,981	Oct. 2	509	125	69	95
Pray, Samuel D. (See Moore, Harvey A., assignor.)						
Premier Steel Company. (See Herdman, Frank E., assignor.) (Reissue.)						
Premo, Albert, Springfield, Mass. Anti-vibratory pressure-bar for woodworking machinery	521,346	June 12	1068	250	67	1405
Prendergast, John T. (See Cooley, Robert L., assignor.)						
Prenter, William. (See Borbridge, Fraser, and Prenter.)						
Prentice, Chalmer M. C., Watertown, S. D. Apparatus for testing eyes	522,027	June 26	2279	{ 546 547 }	67	1663
Prentice, Henry A. (See Mills, Norman T., assignor.)						
Prentice, Leon H., Wankegan, and G. Mehning, Chicago, Ill. Radiator	524,733	Aug. 21	1313	321	68	932
Prentice, Manning, Stowmarket, England. Making nitric acid	526,116	Sept. 18	1383	322	68	1427
Prentice, Manning, Stowmarket, England. Still for obtaining nitric acid, &c.	527,718	Oct. 16	1707	{ 411 412 }	69	345
Prentice, Thomas, assignor of one-half to J. N. Norris, Detroit, Tex. Plow-point	530,452	Dec. 4	646	101	69	1334
Prentiss Clock Improvement Company. (See Prentiss, Henry S., assignor.)						
Prentiss, Henry S., Elizabeth, N. J., assignor to Prentiss Clock Improvement Company, New York, N. Y., and Jersey City, N. J. Electric synchronizer for clocks	517,480	Apr. 3	109	24, 25	67	23
Prescott, Charles M. (See Garland and Prescott.)						
Prescott, George, Dublin, Ireland. Grinding spectacle-lenses	512,485	Jan. 9	1277	307	66	253
Prescott, George W., et al. (See Dow, George B. N., assignor.)						
Prescott, Jesse, assignor to J. B. Prescott & Son, Webster, Mass. Wall-tie	524,531	Aug. 14	975	239	68	856
Prescott, Joseph D., Boston, assignor of one-half to C. H. Wilder, Chelsea, Mass. Oar-lock	521,890	June 26	2006	454	67	1614
Prescott & Son, J. B. (See Prescott, Jesse, assignor.)						
Prescott, William, Fort Madison, Iowa. Headlight	517,237	Mar. 27	2522	{ 592 593 }	66	1974
Presnell, Charles E., Sedgewickville, Mo. Coffee-pot holder	529,953	Nov. 27	2526	608	69	1156
Pressey, Jeremiah M., Cleveland, Ohio. Device for producing respiration	517,481	Apr. 3	111	25	67	23
Pressley, Leonidas C., San Francisco, Cal. Conduit electric railway	529,836	Nov. 27	2331	554	69	1120
Prest, John E., Whitinsville, Mass. Apparatus for controlling the grinding of flats of carding-engines	519,771	May 15	1473	{ 358 359 }	67	841
Preston, Benjamin, deceased, Batley, England; W. D. Baldwin, Washington, D. C., administrator, and assignor to H. Preston, Batley, England. Milling and fulling machine. } Preston, Charles H. and W. A., Detroit, Mich. Steam-generator	521,126	June 5	660	{ 155 156 }	67	1316
Preston, Hamilton G. (See Weaver, Charles H., assignor.)	523,868	July 31	2958	737	68	613
Preston, Hannah. (See Preston, Benjamin, assignor.)						
Preston, J. W., et al. (See Harrison, William T., assignor.)						
Preston, John D., Taylorville, assignor of one-half to J. T. Ross, Litchfield, Ill. Composition of matter for plaster	519,548	May 8	1112	.....	67	762
Preston, William A. (See Preston, Charles H. and W. A.)						
Prestwich, William H., London, England, assignor to Eastman Kodak Company, Rochester, N. Y. Sensitized photographic paper	525,512	Sept. 4	319	.....	68	1211
Preusse, Carl E., Leipsic, Germany. Machine for printing and dividing endless lengths of paper	520,010	May 15	1865	{ 456 457 }	67	913
Pribnow, John F., Indianapolis, Ind. Device for shaping swaged saw-teeth	514,963	Feb. 20	1632	409	66	1194
Price, Benjamin, et al. (See Daves, William, assignor.)						
Price, C. W. (See Thompson, Ralph P., assignor.)						
Price, Charles A., and S. S. Fretz, Philadelphia, Pa.; said Price assignor to said Fretz. Umbrella-spring	513,277	Jan. 23	2583	625	66	587
Price, Charles B., Pittsburg, Pa. Railway-switch	515,361	Feb. 27	2297	570	66	1328
Price, Charles D., et al. (See Fletcher, Florence M., assignor.)						
Price, Cyrus, Greenfield, Ohio. Cash register and indicator	522,389	July 3	372	96, 97	63	73
Price, David D., and R. J. Daniels, Chicago, Ill. Vehicle	520,830	June 5	136	30	67	1222
Price, Gomer W., San Francisco, Cal. Centrifugal pump	517,529	Apr. 3	122	41	67	37
Price, Harry B., London, assignor to C. Whitfield, Kettering, England. Fireproof floor	524,284	Aug. 7	527	124	68	756
Price, J. E., et al. (See Church, Edward O., assignor.)						
Price, James M., Philadelphia, Pa., assignor to Price Railway Appliance Company, of Pennsylvania. Girder joint for railway-rails	517,660	Apr. 3	416	101	67	80
Price, James M., Philadelphia, Pa., assignor to Price Railway Appliance Company, of Pennsylvania. Substructure for railway-rails	519,772	May 15	1480	359	67	841
Price, James M., Philadelphia, Pa., assignor to Price Railway Appliance Company, of Pennsylvania. Substructure for bracing and supporting railway-rails	522,852	July 10	1159	{ 288 289 290 291 292 }	68	235
Price, John B., Wollaston, Mass., assignor to O. Elsas, Atlanta, Ga. Sewing-machine	527,288	Oct. 9	1003	{ 243 244 }	69	200
Price, John G. (See Smith and Price.)						
Price, John M., New York, N. Y. Rolling-mill appliance	525,027	Aug. 28	1829	{ 445 446 }	68	1042
Price, Joseph, Liverpool, and M. C. Bannister, Seacombe, England. Ice-making apparatus	525,156	Aug. 28	2062	503	68	1082
Price, Orrin J. (See Holman, Joseph W., assignor.)						
Price Railway Appliance Company. (See Price, James M., assignor.)						
Price, Walter B., San Francisco, Cal. Purifying illuminating-oils	522,028	June 26	2282	.....	67	1663
Price, William G., Frackville, Pa. Stove-top	523,375	July 24	2076	523	68	437
Price, William G., Sioux City, Iowa. Machine for building embankments	531,385	Dec. 25	2312	{ 551 552 553 }	69	1683
Price, William G., Sioux City, Iowa, assignor of one-half to G. E. Mott, New Orleans, La. Machine for building embankments	528,891	Nov. 6	669	{ 161 162 163 }	69	769
Price, William H., Jr., assignor to Chandler & Price, Cleveland, Ohio. Platen printing-prose	523,006	July 17	1430	{ 357 358 }	68	301

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Pride, William H., Springfield, Ill. Tile-machine.....	519,773	May 15	1481	359	67	842
Prideaux, William D., Wellington, England. Cartridge-pocket holder.....	516,942	Mar. 20	2008	473	66	1859
Pridmore, Edward, assignor to Johnston Harvester Company, Batavia, N. Y. Mowing-machine.....	522,304	Oct. 30	2758	666	69	567
Pridmore, Edward, assignor to Johnston Harvester Company, Batavia, N. Y. Harvester.....	529,954	Nov. 27	2527	609	69	1156
Priest, Edward D. (See Veeder and Priest.)						
Priest, Edward D., Lynn, assignor to General Electric Company, Boston, Mass. Series-parallel controller.....	516,834	Mar. 20	1825	432	66	1824
Priest, Edward D., Lynn, assignor to General Electric Company, Boston, Mass. Coupling for electric locomotives.....	521,669	June 19	1630	382	67	1525
Priest, John, Gradyville, Pa. Work-cabinet.....	514,771	Feb. 13	1327	331	66	1121
Priest, Joseph K., Nashua, N. H. Animal-shears.....	514,273	Feb. 6	511	126	66	949
Priest, Joseph K., Nashua, N. H. Hair-clipper.....	516,109	Mar. 6	601	141	66	1565
Priest, Joseph K., Nashua, N. H. Hair-clipper. (Reissue).....	11,411	Apr. 10	1340	334	67	262
Priest, Joseph K., Nashua, N. H. Power-transmitter for clipping-machines.....	524,213	Aug. 7	423	100	68	739
Priestley, Frank. (See Martin, Priestley, and Pierson.)						
Priestley, Frederick. (See Priestley, George and F.)						
Priestley, George and F., Bradford, England. Loom for weaving double pile fabrics.....	529,955	Nov. 27	2529	610	69	1156
Priestley, Joseph, McKinney, Tex. Combined stalk-cutter and rake.....	517,706	Apr. 3	590	145	67	114
Priestly, Frank C., San Francisco, Cal. Electric converter.....	531,005	Dec. 18	1620	384	69	1540
Priestone, Samuel L., assignor of one-half to T. J. Thompson, Ward, Colo. Amalgamating apparatus.....	525,622	Sept. 4	502	121	68	1245
Primeau, Louis, Beanharois, Canada. Hay-press.....	515,013	Feb. 20	1706	428	66	1207
Prince, Jerome, Milford, Mass., assignor to Musical Telephone Company, Milford, Mass., and Saco, Maine. Mechanical telephone.....	528,390	Oct. 30	2900	703	69	593
Prince, Jerome, assignor of three-fourths to F. C. Morgan and E. J. Dixon, Milford, Mass. Ear-trumpet.....	525,058	Aug. 28	1893	463	68	1052
Prince, John H., Carroll, Mont. Adjusting device for bicycles.....	517,294	Mar. 27	2623	615	66	1993
Prindle, Farand C. (See Baumgarten, Theodore L., assignor.)						
Prindle, George S., et al. (See Kimball, William W., assignor.)						
Prindle, William E., assignor of one-half to A. H. Ramey, Aurora, Ill. Sled-propeller.....	531,274	Dec. 18	2106	506	69	1628
Pringle, Arthur D., West Brownsville, Pa. Speed-gearing for bicycles.....	517,063	Mar. 27	2925	530	66	1918
Pringle, George W., and W. Brodie, Chicago, Ill. Boring-machine.....	526,198	Sept. 18	1527	358	68	1453
Pringle, Harry T. (See Stenersen and Pringle.)						
Pringle, Thomas G. (See Stenersen and Pringle, assignors.)						
Printz, George W. (See Spring and Printz.)						
Prinz, Faustin, Milwaukee, Wis. Screw conveyer.....	523,237	July 17	1841	{ 463 464 }	68	377
Prinz, William H., assignor to Saladin Pneumatic Malting Construction Company, Chicago, Ill. Malt-kiln and method of drying malt.....	515,840	Mar. 6	171	42	66	1485
Prinz, William H., assignor to Saladin Pneumatic Malting Construction Company, Chicago, Ill. Method of and apparatus for malting grain.....	515,841	Mar. 6	175	42	66	1486
Prior, John M., Carson City, Nev. Hose-coupling.....	517,192	Mar. 27	2456	577	66	1961
Pritchard, Ezekiel M., New York, N. Y. Composite material for roofing or similar purposes.....	513,247	Jan. 23	2530	610	66	577
Pritchard, Frank E., Oswego, N. Y. Load-governor for electric currents.....	514,030	Feb. 6	88	22	66	870
Pritchard, Nathaniel J., Shenandoah, Va. Check-valve.....	529,667	Nov. 20	2043	490	69	1058
Pritchard, Nathaniel J., assignor of two-thirds to S. R. Pritchard and J. C. Schooley, Shenandoah, Va. Variable-speed gearing.....	515,534	Feb. 27	2575	637	66	1381
Pritchard, Nathaniel J., assignor of two-thirds to S. R. Pritchard and J. C. Schooley, Shenandoah, Va. Variable-speed gearing.....	515,610	Feb. 27	2691	669	66	1404
Pritchard, Samuel R., et al. (See Pritchard, Nathaniel J., assignor.)						
Probert, Francis E. (See Schoff, Finkel, and Probert.)						
Probola, Adam, assignor to I. W. Deutsch and S. Schweiger, Cleveland, Ohio. Lunch-basket.....	528,491	Oct. 30	3079	746	69	625
Procter, Alfred S., Denver, Colo. Sack-fastener.....	518,574	Apr. 17	1968	486	67	391
Procter, Charles B., assignor of one-half to C. M. Condit and O. J. Higbee, Milo, Iowa. Folding egg-case or shipping-crate.....	525,157	Aug. 28	2064	503	68	1082
Procter, Charles B., assignor of one-half to E. L. Morgan and H. Hinrichs, Milo, Iowa. Folding chicken-coop.....	527,807	Oct. 23	1860	447	69	390
Procter, George E., Washington, D. C. Curling-iron heater.....	513,530	Jan. 30	3013	744	66	703
Procter, George E., Washington, D. C. Bedstead.....	517,482	Apr. 3	111	25	67	23
Procter, John C., Dallas, Oreg. Dumping-wagon.....	530,241	Dec. 4	293	72	69	1269
Proctor, Josiah K., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Ring-doffer cylinder for carding-machines.....	524,348	Aug. 14	672	164	68	800
Proctor, Josiah K., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying-machine.....	525,921	Sept. 11	1032	{ 238 239 }	68	1354
Proctor, Josiah K., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying-machine. (Reissue).....	11,460	Dec. 25	2714	{ 650 651 }	69	1762
Prosser, Daniel F., assignor of one-half to W. L. Garvin and J. W. Morton, Jacksborough, Tex. Fire-extinguisher.....	517,394	Mar. 27	2818	658	66	2032
Prosser, Thomas J., St. Louis, Mo. Railway water-tank.....	528,110	Oct. 23	2417	545	69	491
Prouty, Merrick F. (See Bisbee, George W., assignor.)						
Prouty, Theodore C., assignor to Theodore C. Prouty Company, St. Joseph, Mich. Door-hanger.....	524,609	Aug. 14	1093	270	68	879
Prouty, Theodore C., assignor to Theodore C. Prouty Company, St. Joseph, Mich. Door-hanger.....	526,659	Sept. 25	2319	555	68	1615
Provan, James W., Oshawa, Canada. Hay-carrier track.....	526,052	Sept. 18	1267	293	68	1407
Provonsa, Peter, Almon, Wis. Door-securer.....	515,167	Feb. 20	1954	447	66	1252
Prowse, George R., Montreal, Canada, assignor of one-half to Firm of T. H. McAllister, New York, N. Y. Oxygen generator and holder.....	530,453	Dec. 4	647	161	69	1334
Prox, Frank, Terre Haute, Ind. Steam-boiler.....	521,812	June 26	1284	{ 450 451 }	67	1589
Pruckner, Edmund, Middletown, N. Y. Christmas-tree holder.....	523,376	July 24	2078	523	68	437
Pruden, Abraham B. (See Jägel, Smith, and Pruden.)						
Pruden, John F., Oakdale Station, Pa. Cup-head or piston-packing.....	526,053	Sept. 18	1269	294	68	1407
Prud'homme, Joseph, Butte, Mont. Calcine-furnace.....	522,853	July 10	1161	{ 289 290 }	68	235
Prue, Marcus F. (See Merriam, Lyman W., assignor.)						
Pruitt, Eugene R., assignor of one-half to C. W. Johnson, Baltimore Md. Canning machinery.....	512,323	Jan. 9	979	240	66	197
Prushey, Thomas, Minneapolis, Minn. Flexible metal fire-escape.....	513,139	Jan. 23	2353	567	66	542
Prussing, Eugene E. (See Nolan, Edward, assignor.)						
Prunyn, Henry S., Hoosick Falls, N. Y. Electric-trolley-wheel shield.....	514,274	Feb. 6	512	126	66	950

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Pruyn, Henry S., Hoosick Falls, N. Y., assignor to J. S. Gibbs, Chicago, Ill. Supply system for electric railways.	513,440	Jan. 23	2825	693	66	633
Pruyn, Henry S., Hoosick Falls, N. Y., assignor to J. S. Gibbs, Chicago, Ill. Electric railway.	517,886	Apr. 10	765	191	67	162
Puckett, Ora G. (See Bricker, Solomon E., assignor.)						
Pudan, Oliver C., and L. B. Fulton, assignors to Chaplin-Fulton Manufacturing Company, Pittsburg, Pa. Gas-meter.	523,291	July 17	1932	{ 485 486 }	68	394
Puddefoot, Charles, Detroit, Mich. Corkscrew.	522,672	July 10	848	211	68	180
Puech, Cécile L., Mazamet, France. Process of and apparatus for unhairing skins.	519,345	May 8	748	185	67	696
Puffer, Charles C., and M. Warren, Rochester, N. Y. Automatic balanced steam-regulating valve.	512,748	Jan. 16	1696	406	66	347
Puffer, Luther W., Medford, Mass. Apparatus for carbonating fluids.	522,673	July 10	849	{ 211 212 }	68	180
Pugh, Achilles H., and D. B. Martin, Cincinnati, Ohio. Railway-ticket and holder.	528,130	Oct. 23	2455	594	69	498
Pugh, Andrew J., Bowling Green, Mo. Tobacco-pipe.	519,641	May 8	1274	306	67	790
Pugh, Charles H., Birmingham, England. Manufacturing metallic rims for bicycle-wheels.	527,345	Oct. 9	1093	{ 265 266 }	69	217
Pugsley, William E., assignor of one-half to D. Fitzgerald, Lincoln, Nebr. Wrench.	527,156	Oct. 9	783	191	69	160
Pulford, Francis W., Carson, Mich. Bandage.	512,324	Jan. 9	980	240	66	198
Pullan, John S., W. H. Mann, and J. Gill, Leeds, England. Brick-pressing machine.	514,772	Feb. 13	1328	{ 332 333 }	66	1121
Pulley, George B., assignor of one-half to W. W. Pulley, Cleone, Oreg. Stump-extractor.	517,362	Mar. 27	2732	642	66	2015
Pulley, Warren W. (See Pulley, George B., assignor.)						
Pulling, James G., Columbus, Ohio. Stamp-attaching device.	517,295	Mar. 27	2624	616	66	1993
Pullman, Herbert S., Meriden, Conn. Oil-regulator for continuously-fed lamps.	520,611	May 29	2903	701	67	1136
Pullman's Palace Car Company. (See Campbell, John, assignor.)						
Pullman's Palace Car Company. (See Sessions, Henry H., assignor.)						
Pullman's Palace Car Company. (See Wickes, Thomas H., assignor.)						
Pumpelly, James K. (See Sorley and Pumpelly.)						
Pumpelly-Sorley Storage Battery Company. (See Sorley and Pumpelly, assignors.)						
Pumyea, Edwin A., Jersey City, assignor of one-half to W. E. Haverstick, Rahway, N. J. Lace-fastener.	523,377	July 24	2079	523	68	437
Puncture Proof Pneumatic Tyre Company. (See Lee, Sydney, assignor.)						
Punzelt, Edward E., assignor of one-half to A. Trumbull, New Britain, Conn. Door-check.	523,648	July 24	2514	638	68	522
Pupeschi, Pupo, Florence, Italy. Wind musical instrument.	512,449	Jan. 9	1213	293	66	241
Pupin, Michael I., New York, N. Y. Apparatus for telegraphic or telephonic transmission.	519,346	May 8	751	185	67	696
Pupin, Michael I., New York, N. Y. Transformer for telegraphic, telephonic, or other electrical systems.	519,347	May 8	757	185	67	697
Pupke, Eberhard L., New York, N. Y. Eyelet.	520,538	May 29	2780	672	67	1112
Purcell, Walter A., Newark, N. J. Electric time-signaling system and apparatus.	522,029	June 26	2283	547	67	1663
Purdie, James. (See Grabert, Gustav J., assignor.)						
Purdon, Frederick, H. E. Walters, and W. H. Woodcock, assignors to Antifriction Roller Bearing Syndicate, Limited, London, England. Roller-bearing.	524,397	Aug. 14	768	187	68	818
Purdy, Arthur F., Lawrence, Cal. Book for stamps.	520,399	May 22	2546	615	67	1055
Purlington, Samuel F., assignor of one-half to S. Knight, Jr., Brunswick, Me. Hanging or swinging chair.	517,296	Mar. 27	2625	616	66	1994
Purser, William H. (See Morrison and Purser.)						
Purves, James, Munhall, Pa. Open-hearth furnace.	528,510	Oct. 30	3110	754	69	631
Purves, James L. (See Sawyer and Purves.)						
Purvis, John B., Detroit, Mich. Lubricator.	517,127	Mar. 27	2340	{ 551 552 }	66	1939
Purvis, William B., assignor of one-half to H. J. Tibbals, Philadelphia, Pa. Electric railway.	519,291	May 1	631	154	67	659
Purvis, William B., Philadelphia, Pa., assignor to Eastern Paper Bag Company, Hartford, Conn. Paper-bag machine.	519,348	May 8	759	186	67	697
Purvis, William B., Philadelphia, Pa., assignor to Eastern Paper Bag Company, Hartford, Conn. Paper-bag machine.	519,349	May 8	763	187	67	698
Purvis, William B., Philadelphia, Pa., assignor to Eastern Paper Bag Company, of Connecticut. Paper bag machine.	530,650	Dec. 11	1032	{ 251 252 }	69	1418
Pusey, Lea, Wilmington, Del. Device for severing ice.	525,028	Aug. 28	1831	447	68	1042
Pusey, Lea, Wilmington, Del. Apparatus for subdividing blocks of ice.	530,127	Dec. 4	90	24	69	1232
Putnam, Benjamin W. (See Hooker and Putnam.)						
Putnam, Charles B., Marion, Iowa. Windmill.	515,408	Feb. 27	2373	{ 588 589 }	66	1343
Putnam, Douia C., Wayne Centre, N. Y. Hoop-making machine.	527,884	Oct. 23	2005	481	69	415
Putnam, George W., Lynn, Mass. Fire-curtain or fire-barrier.	520,218	May 22	2254	{ 548 549 }	67	998
Putnam, John G. P., Claremont, N. H. Ice-cutter.	522,490	July 3	534	136	68	106
Putnam, Salmon W., Fitchburg, Mass. Metal-turning lathe.	525,863	Sept. 11	965	216	68	1338
Putnam, Waldo D., assignor of one-half to W. H. Wilkinson, Boston, Mass. Die stock or holder.	519,734	May 15	1422	343	67	831
Putnam, Wendell P., assignor to H. Griffiths, Baltimore, Md. Cash register and indicator.	515,481	Feb. 27	2486	615	66	1364
Putnam, William H., Durand, Mich. Mattress-filling machine.	519,203	May 1	472	115	67	628
Putrow, John B., assignor of one-half to W. E. Duncan, Westborough, Wis. Sleigh attachment for bicycles.	524,349	Aug. 14	673	164	68	800
Putt, Harry M., assignor of one-half to W. M. Benson, Huntingdon, Pa. Stove-truck.	521,127	June 5	662	156	67	1317
Puttkamer, Jesco L. K. von, et al. (See Krantz, Felix C., assignor.)						
Pye, Thomas F. (See Gordon and Pye.)						
Pyle, Edwin L., Bridgeport, Conn., assignor of one-half to E. A. Williams, Brooklyn, N. Y. Trousers-supporter.	525,513	Sept. 4	320	79	68	1211
Pynchon, Edwin, Chicago, Ill. Car-chair.	516,110	Mar. 6	603	141	66	1565
Q. & C. Company. (See Gabel, Thomas R., assignor.)						
Q. & C. Company. (See Holmes, William W., assignor.)						
Quackenbush, George, assignor of two-thirds to A. C. Knight and T. R. Phillips, Whitehall, Wis. Elevator.	519,292	May 1	633	154	67	660
Quackenbush, James H., Hastings, Mich. Oil-can.	522,303	July 3	223	59	68	45
Quambusch, Gustav, assignor to W. Weddigen, Barmen, Germany. Braid.	513,278	Jan. 23	2583	625	66	587
Quast, Charles, Marion, Ohio. Traction-engine.	521,988	June 26	2217	{ 533 534 }	67	1651
Queen City Ventilated Barrel and Basket Company. (See Richardson, Charles, assignor.)						
Queen & Company. (See Garver and Willyoung, assignors.)						
Queen & Company. (See Northrup, Edwin F., assignor.)						
Queen & Company. (See Outerbridge, Alexander E., Jr., assignor.)						
Queen & Company. (See Willyoung, Elmer G., assignor.)						
Queen & Company. (See Willyoung and Garver, assignors.)						
Queiszer, Frank, Milwaukee, Wis. Attachment for vehicle-poles.	524,837	Aug. 21	1496	366	68	965

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Quentell, Carl A., New Orleans, La. Mustache-guard for spoons	518,116	Apr. 10	1168	293	67	230
Quentell, William P., Kansas City, Mo. Type-writing machine	517,663	Apr. 3	419	{ 101 102 }	67	80
Quest, Samuel M. (See Horton and Quest.)						
Quietzsch, Bruno, and C. R. Glass, Chenitz, Germany. Beer-glass counter or game-register.	524,214	Aug. 7	424	100	68	739
Quigley, Charles C., assignor to himself and B. T. Snelzer, Havana, N. Y. Rake	524,215	Aug. 7	425	101	68	739
Quigley, Walter C., <i>et al.</i> (See Conant, George P., assignor.)						
Quimby, John H., Concord, N. H. Switch-stand and switch-operating mechanism	512,216	Jan. 2	809	196	66	153
Quimby, Sylvanus H. (See Bernier, Mitchell, assignor.)						
Quimby, William E., Orange, N. J. Screw-pump	529,837	Nov. 27	2333	{ 554 555 }	69	1131
Quinby, Harry D., assignor to R. M. Quinby, Denver, Colo. Enameling sheet metal and compound therefor	519,968	May 15	1798	.....	67	901
Quinby, I. W. (See Quinby, Jesse C., assignor.)						
Quinby, Jesse C., Norway Ridge, Wis., assignor of one-half to I. W. Quinby, Wilmington, Ohio. Fence	518,896	Apr. 24	2527	625	67	506
Quinby, Rosalie M. (See Quinby, Harry D., assignor.)						
Quincy, C. F. (See Holmes, William W., assignor.)						
Quincy, Josiah. (See Bélanger, Victor, assignor.)						
Quincy Storm Apron Company. (See Blanchard, William M., assignor.)						
Quinn, John F., New York, N. Y. Composition for artificial fuel	521,180	June 12	762	.....	67	1348
Quinn, Murtha P. (See Longinus, Joseph, assignor.)						
Quint, Alanson D., Hartford, Conn. Turret-head machine	520,079	May 22	1993	{ 487 488 }	67	952
Quint, Edgar M., Concord, N. H. Muffler or soft-stop for pianos	513,341	Jan. 23	2672	648	66	604
Quirk, William H., <i>et al.</i> (See Roberts, Henry P., assignor.)						
Quortrup, August. (See Nielsen, Andrew P., assignor.)						
Quortrup, August, Jamaica, N. Y. Cash-controlling machine	527,808	Oct. 23	1861	{ 447 448 }	69	391
R. F. Hall Manufacturing Company. (See Hall, Robert F., assignor.)						
R. Herschel Manufacturing Company <i>et al.</i> (See Cameron and Dawson, assignors.)						
Raab, Carl, Kaiserslautern, Germany. Electric meter	514,131	Feb. 6	242	58, 59	66	900
Raab, Carl D., Kaiserslautern, Germany. Electric meter	524,953	Aug. 21	1677	411	68	996
Raab, William, Cedar Falls, Iowa. Pneumatic type-writing machine	522,491	July 3	536	{ 136 137 }	68	106
Raasch, Gustavus A., and H. Fahrmeier, Higgsville, Mo. Pneumatic stacker	525,281	Aug. 28	2266	552	68	1121
Raber, Nathan L., Corvallis, Oreg. Amalgamator	517,767	Apr. 3	592	{ 145 146 }	67	114
Rabiger, Emil. (See Rabiger, Robert and E.)						
Rabiger, Robert and E., Philadelphia, Pa. Cigar-tip cutter and dice-throwing apparatus	518,469	Apr. 17	1800	445	67	361
Rabun, Hugh M., assignor of one-half to J. Uline, Baltimore, Md. Fruit-gatherer	522,492	July 3	539	137	68	107
Rabun, Gustave A. (See Bledsoe, Nathaniel H., assignor.)						
Rachelman, Samuel, St. Paul, Minn. Trousers	511,797	Jan. 2	80	20	66	18
Radcliffe, Charles, Newark, N. J. Button	520,897	June 5	263	63	67	1245
Radermacher, Joseph, Kalk, Germany. Buddle	525,363	Sept. 4	75	20	68	1164
Radford, Arthur L., London, England. Traveling-chain conveying apparatus	522,854	July 10	1162	290	68	295
Radford, Benjamin F., Hyde Park, Mass. Belt-tightener	527,506	Oct. 16	1365	{ 332 333 }	69	253
Radick, Mary E., White Plains, N. Y. Cover for frying-pans, &c.	517,708	Apr. 3	497	119	67	96
Radlauer, Siegmund, Berlin, Germany. Salicyl-anilid	526,258	Sept. 18	1626	.....	68	1473
Radomski, John, assignor of one-half to M. Barabasz, Baltimore, Md. Street-car motor	531,275	Dec. 12	2109	506	69	1628
Rae, Julio H. (See Bowles, John L., assignor.)						
Rae, Robert J., London, England. Chain shackle or coupling	523,441	July 24	2190	{ 551 552 }	68	457
Raffard, Nicolas J., Paris, France, assignor to Thomson-Houston Electric Company, of Connecticut. Electric locomotive	527,126	Oct. 9	740	{ 181 182 }	69	153
Rafter, George W., Rochester, N. Y. Filter	524,865	Aug. 21	1533	375	68	971
Rahmer, Bessie, New York, N. Y. Combined cane and camera-tripod	513,058	Jan. 16	2229	536	66	448
Rahr, Reinhardt, Manitowoc, Wis. Making coffee substitutes	521,509	June 19	1364	.....	67	1477
Railshack, Lafayette D., Indianapolis, Ind. Rotary plow	528,511	Oct. 30	3112	755	69	632
Railway Electric and Auto-Pneumatic Signal Company. (See Dodgson, Frank L., assignor.)						
Ralston, David C., Detroit, Mich. Soap pressing and stamping machine	517,064	Mar. 27	2236	530	66	1918
Ralya, William S., and R. Coyle, Indianapolis, Ind. Metal-straightening machine	529,956	Nov. 27	2531	610	69	1156
Ramage, Florence A., <i>et al.</i> (See Biette, Henry C., assignor.)						
Ramage, William A. (See Munhall, Peter J., assignor.)						
Ramey, Alfred H. (See Prindle, Henry E., assignor.)						
Ramey, Alfred H., Aurora, Ill. Mop-wringer and pail	517,065	Mar. 27	2239	530	66	1918
Ramming, John, St. Louis, Mo., assignor to National Lead Company, Jersey City, N. J. Mold	529,309	Nov. 13	1417	340	69	924
Ramsay, Burt, New York, N. Y. Pencil-sharpener	530,454	Dec. 4	648	161	69	1334
Ramsay, Erskine, Pratt Mines, Ala. Coal and mineral washer	528,803	Nov. 6	500	121	69	737
Ramsay, John. (See Leverett and Ramsay.)						
Ramsey, James W., assignor of two-thirds to I. A. Hall and J. O. Harkless, Cairo, Ill. Car-coupling	518,355	Apr. 17	1600	396	67	326
Ramsey, Philip L., assignor of one-half to J. S. Grumbley, Elkton, Ky. Kitchen-cabinet	528,180	Oct. 30	2539	615	69	528
Rand, Addison C., assignor to J. F. Lewis, New York, N. Y. Pneumatic vehicle	530,550	Dec. 11	854	211	69	1387
Rand, Charles A. A., Chicago, Ill. Twine-box and tension for self-binding harvesters	526,459	Sept. 25	2011	479	68	1558
Rand, Horace S., <i>et al.</i> (See Lyon, William, assignor.)						
Rand, Waldron H. (See Rand, William B. and W. H.)						
Rand, William B. and W. H., Boston, Mass. Bottle	520,219	May 22	2256	549	67	999
Randa, Joseph, Detroit, Mich. Calipers	517,066	Mar. 27	2240	531	66	1918
Randall, Alfred H., Jr., Philadelphia, Pa. Cigar-vending machine	520,243	May 22	2293	{ 556 557 }	67	1006
Randall & Co. (See Randall, Silas H., assignor.)						
Randall, David, <i>et al.</i> (See Boomhower, Eli E., assignor.)						
Randall, Frank J., assignor to Knapp & Stout Co. Company, St. Louis, Mo. Joist-crowning machine	519,682	May 8	1338	323	67	802
Randall, George M., <i>et al.</i> (See Maynard, Kitchell A., assignor.)						
Randall, Jabez B., Sanford, Fla. Truck	528,443	Oct. 30	2992	723	69	609
Randall, John L., Brooklyn, N. Y. Method of and composition of matter for smelting titanite iron ore	528,804	Nov. 6	504	.....	69	738
Randall, Purdy M., assignor of one-half to C. A. Herbert, Concord, N. H. Electric call	512,217	Jan. 2	810	196	66	154

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Randall & Son, P. D. (See Dutcher, William L., assignor.)						
Randall, Silas H., Wyoming, assignor to Randall & Co., Cincinnati, Ohio. Bevel-edger.	524,767	Aug. 21	1371	334	65	942
Randall, Silas H., Wyoming, assignor to Randall & Co., Cincinnati, Ohio. Leather-splitting machine.	524,768	Aug. 21	1372	334	68	942
Randall, Victor E., Burlington, Mich. Heating oil-stove.	521,813	June 26	1835	451	67	1590
Randall, William M., et al. (See Mayo, Kitchell A., assignor.)						
Randall, William P., Le Roy, N. Y. Wire-fence machine.	518,426	Apr. 17	1722	429	67	347
Randle, Joseph R., Columbus, Miss. Cartridge and game belt.	523,052	July 17	1509	377	68	317
Randleman, Martin C. (See Randleman, Zouave S. and M. C.)						
Randleman, Martin C. and Z. S., Carlisle, Iowa. Hog-pen.	523,996	Aug. 7	49	11	68	671
Randleman, Zouave S. (See Randleman, Martin C. and Z. S.)						
Randleman, Zouave S. and M. C., Carlisle, Iowa. Adjustable tongs, &c.	519,774	May 15	1482	359	67	842
Randolph, Arthur D. F., New York, N. Y. Stand for photographs.	518,073	Apr. 10	1095	276	67	216
Randolph, Arthur D. F., New York, N. Y. Photographic dark-box.	518,074	Apr. 10	1096	277	67	216
Randolph, Arthur D. F., New York, N. Y. Photographic developing-tray.	518,075	Apr. 10	1098	277	67	216
Randolph, Clabeorn P., Los Angeles, Cal. Washing-machine.	527,507	Oct. 16	1366	338	69	253
Randolph & Clowes. (See Giller, John R., assignor.)						
Randolph, George H., Colorado, Ill. Furnace grate-bar.	521,468	Aug. 14	872	215	68	838
Randolph, Lingan S., Baltimore, Md. Method of and apparatus for the electrodeposition and refining of copper or other metals.	514,275	Feb. 6	513	127	66	950
Rancy, Oscar, Topeka, Kans. Self-register for weighing-scales.	523,546	July 24	2381	597	68	491
Range, Hercule N., Chicago, Ill. Sandpapering-machine.	522,918	July 10	1269	314	68	256
Range, James. (See Willcox and Range.)						
Ranville, Felix, et al. (See Billings, George W., assignor.)						
Ranville, Felix, et al. (See Childs, Charles H., assignor.)						
Rank, Erdmann, assignor, by mesne assignments, to A. Humann, Chicago, Ill. Fire-escape.	529,462	Nov. 20	1705	407	69	996
Rankin, Edwin G., Monongahela City, and J. Tempest, Courtney, Pa. Brick-machine.	519,590	May 8	1179	284	67	774
Rankin, Sarah E. (See Mitchell, James O., assignor.)						
Rankin, William H. (See Hebbard, Albert H. and C. C., assignors.)						
Rankine, David A., Waterloo, near Liverpool, England. Apparatus for filtering water, &c.	511,798	Jan. 2	81	20, 21	66	18
Rann, Frank, Milwaukee, Wis. Submarine-pipe joint.	529,806	Nov. 27	2270	512	69	1108
Ranney, Darwin D., assignor, by mesne assignments, to M. Turner, trustee, Lewistown, Ill. Can-heading machine.	515,362	Feb. 27	2299	571	66	1329
Ranney, Darwin D., assignor, by mesne assignments, to M. Turner, trustee, Lewistown, Ill. Machine for forming and soldering sheet-metal cans.	518,375	Apr. 17	1642	495	67	333
Ranney, Darwin D., assignor, by mesne assignments, to M. Turner, trustee, Lewistown, Ill. Can-testing machine.	528,987	Nov. 13	854	202	69	822
Ranney, Fred. E., Greenville, Mich. Ice-rack for refrigerators.	519,432	May 8	897	203	67	724
Rano, Charles O. (See Dean, Cyrus S., assignor.)						
Ransom, Albert F., Burlington, Wis., assignor to Burlington Blanket Company. Horse-blanket. (Reissue)	11,427	July 3	685	174	68	133
Ransom, Clarence. (See Marks and Ransom.)						
Ransom & Randolph. (See Hulthorst, William G., assignor.)						
Ransome, Ernest L., Oakland, Cal. Mold.	512,662	Jan. 9	1546	371	66	305
Ransome, Ernest L., Oakland, Cal. Concrete-mixing mill.	512,663	Jan. 9	1547	371	66	305
Ransome, Ernest L., Oakland, Cal. Mold.	515,014	Feb. 20	1707	429	66	1207
Ransome, Ernest L., Oakland, Cal. Fireproof flooring.	515,015	Feb. 20	1709	429	66	1207
Ransome, Ernest L., Oakland, Cal. Molding concrete pipe.	515,016	Feb. 20	1709	429	66	1208
Ransome, Ernest L., Oakland, Cal. Slaking lime.	515,017	Feb. 20	1710	429	66	1208
Ransome, Ernest L., Oakland, Cal. Building construction.	514,111	Mar. 6	604	142	66	1566
Ransome, Ernest L., Oakland, Cal. Manufacture of bricks from city refuse.	516,112	Mar. 6	605	142	66	1566
Ransome, Ernest L., Oakland, Cal. Concrete construction.	516,113	Mar. 6	606	142	66	1566
Ransome, Ernest L., Oakland, Cal. Manufacture of monolithic pipes in situ.	517,808	Apr. 3	655	164	67	127
Ransome, Ernest L., Oakland, Cal. Illuminating-floor.	518,045	Apr. 10	1056	267	67	209
Ransome, Ernest L., Oakland, Cal. Burning city refuse.	524,687	Aug. 14	1226	300	68	903
Ransome, Ernest L., Oakland, Cal. Means for treating city refuse.	524,688	Aug. 14	1227	300	68	904
Ransome, Ernest L., Oakland, Cal. Mold.	524,342	Oct. 30	2218	681	69	578
Ransome, Willie L., Roanoke, Va. Car-door.	521,296	June 12	965	229	67	1385
Ransweiler, William, Akron, Ohio. Currycomb.	514,031	Feb. 6	90	22	66	871
Ranton, William J., Syracuse, N. Y. Generator.	515,553	Feb. 27	2604	615	66	1386
Rantz, Edward, New Orleans, La. Machine for removing tin-foil from bottles.	518,275	Apr. 17	1448	362	67	290
Rapaport, Isador B., assignor of one-half to N. Cohn, Chicago, Ill. Permutation-padlock.	526,740	Oct. 2	118	28, 29	69	24
Raphael, Robert, Brooklyn, N. Y. Dress-shield.	513,416	Jan. 23	2788	683	66	626
Raphael, Robert, assignor to W. J. McKelvey, Brooklyn, N. Y. Car-fender.	527,004	Oct. 2	543	133	69	102
Rapheff, John, New York, N. Y. Carriage for pneumatic guns.	515,018	Feb. 20	1711	429	66	1208
Rapp, Almire H., San Francisco, Cal. Concentrator.	520,939	June 5	347	84	67	1260
Rapp, Joseph, New Philadelphia, Ohio. Machine for dressing and finishing tiles.	513,140	Jan. 23	2354	568	66	542
Rapp, Samuel N., Toledo, Ohio. Lathe-tool for turning and finishing gas-fittings, &c.	512,564	Jan. 9	1386	334	66	274
Rappleveya, Nicholas. (See Stein and Rappleveya.)						
Rappold, William J., assignor to J. W. Pepper, Philadelphia, Pa. Drum and cymbal pedal or beater.	516,612	Mar. 13	1454	344	66	1739
Rarig, Welden C., San Francisco, Cal. Joint and bearing.	523,238	July 17	1843	464	68	377
Rasmussen, Thomas, and R. Johnson, Bennett, Nebr. Window-blind.	514,605	Feb. 13	1058	264	66	1070
Rasner, Henry C., San Francisco, Cal. Clamp-nail.	515,168	Feb. 20	1955	488	66	1252
Rasner, Henry C., San Francisco, Cal. Vise.	527,217	Oct. 9	279	213	69	179
Rastede, Charles H. (See Lake, George W., assignor.)						
Rastetter, Louis, Fort Wayne, Ind. Spoke attachment for vehicle-wheels.	518,627	Apr. 24	2058	511	67	421
Rastetter, Louis, Fort Wayne, Ind. Joint for vehicle-wheel rims.	528,741	Nov. 6	377	91	69	715
Ratchford, Nicholas, Covington, Ohio. Switch and signal operating mechanism.	519,735	May 15	1423	343	67	831
Rathbone, Sard & Co. (See Van Buren, Jafew S., assignor.)						
Ratcliff, Thomas, Casey, Ill. Ticket-case.	527,508	Oct. 16	1370	333	69	283
Ratsey, George R., et al. (See Ratsey, Thomas W., assignor.)						
Ratsey, Thomas W., Cowes, assignor of two-thirds to E. Laphorn, G. R. Ratsey, and E. W. Laphorn, Gosport, England. Sail for vessels.	517,193	Mar. 27	2457	578	66	1961
Rau, Albert, Pforzheim, Germany. Appliance for molding concrete.	518,076	Apr. 10	1099	278	67	217

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Rau Brothers. (See Ran, William G., assignor.)						
Rau, Emanuel, Brooklyn, N. Y. Machine for packaging seeds in envelopes	518,427	Apr. 17	1724	{ 429 430 }	67	348
Rau, Henry. (See Abbott and Rau.)						
Rau, John H., Cincinnati, Ohio. Vehicle-cover and support therefor	518,376	Apr. 17	1645	406	67	333
Rau, Otto M., Milwaukee, Wis. Electrical safety-fuse	526,502	Sept. 25	2070	492	63	1569
Rau, William G., assignor to Rau Brothers, Louisville, Ky. Adjustable flue-stopper	513,141	Jan. 23	2356	569	66	542
Rau, William J., Galveston, Tex. Car-fender	520,335	May 22	2448	581	67	1036
Raubold, Alfred A., Gremsmühlen, Germany. Water-motor	521,814	June 26	1888	{ 451 452 }	67	1590
Rauch, Charles E. (See Andrews, Charles B., assignor.)						
Rauch, Edgar J., and W. A. Keith, Brockton, Mass. Street-car sign	515,967	Mar. 6	371	84	66	1522
Rauch, George, Milwaukee, Wis. Commutator-brush holder	527,127	Oct. 9	742	182	69	153
Raudenbush, John K., et al. (See Andrews, Charles B., assignor.)						
Ranser, Henry, C. Wieber, and A. Sokoloff, Moscow, Russia. Pressure-gage	515,611	Feb. 27	2694	670	66	1405
Rave, Henry. (See Kraft, John U., assignor.)						
Rawdon, Frank P., Worcester, Mass. Window or door button	526,843	Oct. 2	284	68	69	54
Rawdon, George L., Cleveland, Ohio. Type-writing machine	519,390	May 8	835	203	67	712
Rawhouser, George A., York, Pa. Oil-can	522,087	June 26	2374	571	67	1681
Rawle, Francis W., New York, N. Y. Fire-escape	512,899	Jan. 16	1982	470	66	402
Rawle, James, Radnor, Pa. Device for operating doors	523,710	July 31	2676	653	68	560
Rawle, James, Radnor, Pa. Device for operating doors	523,711	July 31	2677	663	68	561
Rawles, John, Seville, assignor of five-eighths to G. H. McElvain and J. L. Griffith, Bush-nell, Ill. Car-coupling	512,393	Jan. 9	1101	{ 266 267 }	66	220
Rawlings, A. R. (See Buddle, George T., assignor.)						
Rawlings, George H., St. Louis, Mo. Game-bag	519,271	May 1	592	144	67	652
Rawlings, George H., St. Louis, Mo. Fishing-float	522,167	June 26	2516	604	67	1708
Rawls, Thomas F. (See Halliday and Rawls.)						
Ray, Alfred E. A., London, England. Letter-case, portfolio, &c	518,628	Apr. 24	2060	512	67	421
Ray Artesian Well and Machine Company. (See Ray, Charles A., assignor.)						
Ray, Charles A., assignor to Ray Artesian Well and Machine Company, Providence, R. I. Well-drilling machine	516,977	Mar. 20	2062	488	66	1870
Ray, Frank A. (See McConnell and Ray.)						
Ray, Henry F., and A. Dewey, Marion, Ky. Smoke-consumer	525,059	Aug. 28	1894	464	68	1053
Ray, John M., Hamilton, Ohio. Cabinet-album	525,719	Sept. 11	692	160	68	1291
Ray, John W., Liverpool, England. Engine-shaft-rotation indicator	526,259	Sept. 18	1626	{ 381 382 }	68	1473
Ray, Robert J. (See Stapleton and Ray.)						
Raymond, Adelbert. (See North and Raymond.)						
Raymond, Emma H., assignor to T. S. White, T. Friant, G. W. Perkins, and C. J. Reed, Grand Rapids, Mich. Carpet-sweeper	522,533	July 3	608	155	68	120
Raymond, Emmet B., assignor to G. Sievers and A. R. Lee, St. Louis, Mo. Oil vaporizer and burner	514,870	Feb. 13	1486	373	66	1152
Raymond, Francois, Woodhaven, N. Y. Tongs	530,455	Dec. 4	650	162	69	1334
Raymond, Francois, Woodhaven, N. Y. Padlock	530,456	Dec. 4	651	162	69	1335
Raymond, Franklin M., et al. (See Richmond, Samuel H., assignor.)						
Raymond, Freeborn F., 2d, Newton, Mass. Fastener for gloves	524,838	Aug. 21	1498	366	68	965
Raymond, Freeborn F., 2d, Newton, Mass. Nail making, distributing, and driving machine	528,805	Nov. 6	505	122	69	738
Raymond, George W., Seneca, Ill. Draft-equalizer	528,111	Oct. 23	2418	585	69	491
Raymond, Henry, Knoxville, Tenn. Car-coupling	530,065	Nov. 27	2738	656	69	1198
Raymond, Henry, Miser, assignor of one-third to J. J. E. Poe, Knoxville, Tenn. Tank-feeder	524,689	Aug. 14	1230	300	68	904
Raymond, Jean M., Paris, France. Composition of matter for vulcanizing rubber	518,046	Apr. 10	1057		67	210
Raymond, John W., San Francisco, Cal. Apparatus for starting gas-engines	521,551	June 19	1433	333	67	1488
Raymond, Lewis H., Brooklyn, N. Y. Removable center and bilge keelson for metallic life-boats, &c	524,350	Aug. 14	675	164	68	801
Raymond, Pierre A., Grenoble, France, assignor to Consolidated Fastener Company, Portland, Me. Lacing-stud fastener	519,847	May 15	1602	391	67	865
Raymond, Pierre A., Grenoble, France, assignor to Consolidated Fastener Company, Portland, Me. Process of and device for attaching lacing-studs	519,848	May 15	1603	391	67	865
Raymond, Reuben, San Francisco, Cal. Glove	531,386	Dec. 25	2315	552	69	1683
Raymond, Silas H., Grand Rapids, Mich. Carpet-sweeper	518,210	Apr. 10	1336	333	67	261
Raymond, Thomas, Walla Walla, Wash. Chin-check for horses	524,669	Aug. 14	1199	293	68	898
Raymond, Ward, Johnstown, Pa. Machine for bending flanged metal bars	530,203	Dec. 4	221	55	69	1256
Rayner, Thomas J., London, England. Evaporating apparatus	519,369	May 15	1799	441	67	901
Rayner, Thomas J., assignor of one-half to E. B. Caird, London, England. Float-valve	527,346	Oct. 9	1095	267	69	218
Rea, Edward J., Washington, D. C. Steam-engine indicator	521,815	June 26	1889	452	67	1590
Rea, Edward J., assignor of one-half to C. J. Weedon, Washington, D. C. Bicycle-brake	524,398	Aug. 14	769	{ 187 188 }	68	819
Read, Charles H., Pittsburg, Pa. Railway-chair	515,363	Feb. 27	2301	571	66	1329
Read, Daniel M., New York, N. Y. Pocket-book	512,565	Jan. 9	1388	335	66	274
Read, Edwin O., New York, N. Y. Device for protecting joints of windows	529,838	Nov. 27	2336	555	69	1121
Read, Henry G. (See Mann, Smith, and Read.)						
Reader, James H., Tyrone, Pa. Boiler	521,476	June 19	1302	304	67	1465
Reading, Edward, and A. Rigby, Sydney, New South Wales. Amalgamator and separator for recovering precious metals from ores	527,076	Oct. 9	654	{ 158 159 }	69	137
Reading, John, assignor to Reading Manufacturing Company, Akron, Ohio. Sample-book rack	527,809	Oct. 23	1864	448	69	391
Reading Manufacturing Company. (See Reading, John, assignor.)						
Ready, Maurice, Dayton, Ohio. Heater	524,399	Aug. 14	771	188	68	819
Reagan, Paul M., Chattanooga, Tenn., assignor to Hinson Car-Coupler Company, Chicago, Ill. Car-coupling	515,719	Feb. 27	2872	716	66	1439
Ream, Frank L., and C. F. Herbolzheimer, Ladd, Ill. Earth-auger	519,642	May 8	1275	306	67	790
Reaney, Francis W., Augusta, Ga. Car-replacer	513,531	Jan. 30	3014	744	66	704
Reardon, Daniel E., Clarendon county, S. C. Sod cutter and crusher	514,335	Feb. 6	617	157	66	968
Reardon, Patrick W., Oakland, Cal. Curb and pavement	520,220	May 22	2258	549	67	999
Reaser, Lewis, Reading, Pa. Stovepipe attachment	526,260	Sept. 18	1628	382	68	1473
Reaves, Henry B. (See Rigby and Reaves.)						
Reber, John G., and J. L. Sefton, Chicago, Ill. Paper box	514,032	Feb. 6	91	23	66	871
Reber, John G., and J. L. Sefton, Chicago, Ill. Paper box	514,033	Feb. 6	93	24	66	871
Reber, Paul, Esslingen, Germany. Sliding calipers or gage	514,685	Feb. 13	1186	296	66	1094
Recknagel, Hermann, Winterthur, Switzerland. Air-draft-control apparatus	529,191	Nov. 13	1201	290	69	884
Record, George J., Conneaut, Ohio. Nozzle for cans	521,989	June 26	2221	534	67	1652

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Record, George J., Conneaut, Ohio. Tin-plate cleaning and polishing machine	523,485	July 24	2280	573	68	471
Records, Edward, assignor to J. B. Dill, New York, N. Y. Making fertilizers	527,810	Oct. 23	1865		69	391
Reddick, William A., Niles, Mich. Mole-trap	524,216	Aug. 7	426	101	67	739
Redding, Jacob, New Castle, Ind. Mechanism for regulating speed of pulleys, &c	526,199	Sept. 18	1531	353 359	68	1454
Redding, Jerome, Malden, Mass. Gong	528,112	Oct. 23	2419	586	69	491
Redfield, Paul S., Providence, R. I. Float and sinker attachment	514,034	Feb. 6	94	24	66	872
Redlinger, Michael, assignor to A. Baumgarten, E. H. and C. Morgan, Freeport, Ill. Spring-hinge	524,351	Aug. 14	677	165	68	801
Redlinger, Michael, and C. Morgan, assignors to Arcade Manufacturing Company, Freeport, Ill. Stovepipe-damper	520,379	May 22	2519	609	67	1050
Redlinger, Michael, and C. Morgan, assignors to A. Baumgarten, E. H. and C. Morgan, Freeport, Ill. Bolt-nut	520,802	June 5	79	17	67	1212
Redmond, Edmund, Rochester, N. Y. Printing attachment for bicycles	520,803	June 5	80	18	67	1212
Redmond, Henry, New York, N. Y. Picture-hanging device	520,706	May 29	3075	744	67	1167
Redmond, Sibley H., Detroit, Mich. Music-leaf turner	513,142	Jan. 23	2357	569	66	543
Redmond, Thomas, Philadelphia, Pa. Device for preventing horses from cribbing and wind-sucking	526,538	Sept. 25	2120	508	68	1579
Reece, John, Boston, Mass. Sewing-machine	520,657	May 29	2971	719	67	1148
Reed, Albert F., Guthrie, Iowa. Vise attachment for anvils	520,011	May 15	1867	457	67	913
Reed & Barton Corporation. (See Leach, Thomas, assignor.)						
Reed & Barton Corporation. (See McAusland, William, assignor.)						
Reed, Benjamin D., et al. (See McCall, Harry M., assignor.)						
Reed, Charles E., Chicago, Ill. Pattern tracing and cutting machine	520,500	May 29	2721	659 660	67	1102
Reed, Charles F. (See Strong and Reed.)						
Reed, Charles J., et al. (See Raymond, Emma H., assignor.)						
Reed, Charles J., Orange, N. J., assignor to Reed Electric Company, Philadelphia, Pa. Conduit electric railway	521,891	June 26	2007	484 485	67	1614
Reed, Charles J., Orange, N. J., assignor to Reed Electric Company, Philadelphia, Pa. Conduit electric railway	521,892	June 26	2011	485	67	1615
Reed, Charles J., assignor to Reed Electric Company, Philadelphia, Pa. Storage-battery	528,647	Nov. 6	230	57, 58	69	688
Reed, Charles J., assignor to Reed Electric Company, Philadelphia, Pa. Storage-battery	528,648	Nov. 6	232		69	688
Reed, Charles J., assignor to Reed Electric Company, Philadelphia, Pa. Rail bond or connector	530,651	Dec. 11	1036	253	69	1419
Reed Electric Company. (See Reed, Charles J., assignor.)						
Reed, Eli S., and A. J. Stoops, Chattanooga, Tenn. Antifilling device for bottles, &c	520,831	June 5	138	30	67	1222
Reed, Franklin M., assignor of three-fourths to C. E. and W. A. Jones and W. H. Ziegler, Anderson, Ind. Hydrocarbon injector burner	518,897	Apr. 24	2528	625	67	507
Reed, George W., et al. (See West, John, assignor.)						
Reed, Irvin H., Leadville, Colo. Detachable stock for hand-firearms	517,555	Apr. 3	229	52	67	45
Reed, Irvin H., Leadville, Colo. Girth-ring for saddles	521,552	June 19	1435	333	67	1489
Reed, Jay, Butler, Mo. Strap attachment. (Reissue)	11,432	July 10	1345	334	68	271
Reed, Jay, Butler, Mo. Strap-loop	530,056	Nov. 27	2739	657	69	1198
Reed, John, Ripley, Miss. Car-coupling	525,796	Sept. 11	825	188	68	1315
Reed, John D., Boston, Mass. Substructural support for railway systems	526,054	Sept. 18	1270	294	68	1408
Reed, John J. (See Kneip, Anton, assignor.)						
Reed, John R. (See Wolfe, Burt J., assignor.)						
Reed, John W., Chicago, Ill. Upright-piano frame	513,970	Jan. 30	3713	914	66	836
Reed, Lewis. (See Woodard, Alvin N., assignor.)						
Reed, Orlando E. (See Guy and Reed.)						
Reed, Robert J., and S. O. Carothers, Wheeling, W. Va. Snap-hook	513,652	Jan. 30	3223	791	66	740
Reed, Stephen, et al. (See Pittman, Harrison, assignor.)						
Reed, Vett S., and D. Apgar, Loveland, Colo. Pump	525,998	Sept. 11	1177	268	68	1378
Reed, Warren B., New Orleans, La. Electric meter	521,089	June 5	601	142	67	1305
Reeder, John F., Haynesville, La. Plow-sweep	513,417	Jan. 23	2789	683	66	627
Reefy, Solomon L., Edinburg, Ill. Bracket for vehicle-lamps	529,751	Nov. 27	2182	520	69	1092
Reel, John, assignor of one-half to J. J. Carter, French Camps, Miss. Car-coupling	530,457	Dec. 4	652	162	69	1335
Rees, H. Clay, Waco, Tex. Atomizer	526,741	Oct. 2	122	29	69	24
Rees, Thomas. (See Walton and Rees.)						
Reese, Benjamin G., Mount Carmel, S. C., and D. B. Cade, Overton, Ga. Combined measure and funnel	525,232	Aug. 28	2187	534	68	1104
Reese, Jacob, Philadelphia, Pa. Utilizing iron ore	519,391	May 8	836		67	712
Reeve, Sidney A. (See Church and Reeve.)						
Reeves, Abbott M., Decatur, Ill. Folding seat	512,325	Jan. 9	981	240	66	198
Reeves, Arthur L., Jr., Hamilton, Canada. Paper box	519,005	May 1	108	26	67	556
Reeves & Co. (See Kailor and Reeves, assignors.)						
Reeves & Co. (See Reeves, Marshal T., assignor.)						
Reeves & Co. (See Reeves and Kailor, assignors.)						
Reeves, Frederick W., St. Paul, Minn. Reciprocating rotary steam-engine	523,053	July 17	1510	377 378	68	317
Reeves, Marshal T. (See Kailor and Reeves.)						
Reeves, Marshal T., assignor to Reeves & Co., Columbus, Ind. Straw-stacking machine	517,530	Apr. 3	184	42	67	38
Reeves, Marshal T., assignor to Reeves & Co., Columbus, Ind. Windlass	529,531	Nov. 20	1833	436	69	1019
Reeves, Marshal T., and J. N. Kailor, assignors to Reeves & Co., Columbus, Ind. Clover-huller feeder	521,347	June 12	1069	250	67	1406
Reeves, Orwell C., assignor to National Cash Register Company, Dayton, Ohio. Automatic register	525,514	Sept. 4	321	79, 80	68	1211
Reeves, Wilfred, London, England. Feed-water filter, purifier, and grease-trap	523,486	July 24	2223	573 574	68	472
Reeves, William, New Haven, Conn. Coin-controlled machine	526,539	Sept. 25	2121	508 509	68	1579
Reeves, William, Hoboken, N. J. Railway-train protecting device	527,540	Oct. 16	1432	346	69	293
Reeves, William W., Braddock, Pa. Mold for concrete burial-tombs	519,689	May 8	1350	326	67	804
Reffitt, Joseph, Leeds, England. Apparatus for dyeing	521,816	June 26	1891	453	67	1591
Refsun, Hans M., Christiania, Norway. Apparatus for marking divisions on book-backs	516,978	Mar. 20	2064	488	66	1870
Regan, Patrick J., Iowa City, Iowa. Fire-alarm	521,919	June 26	2072	498	67	1626
Regan, Patrick J., Iowa City, Iowa. Fence-making machine	527,370	Oct. 9	1139	278	69	226
Regan, Thomas, Crawford, Nebr. Pitman connection	527,128	Oct. 9	743	182	69	153
Regester, Thomas L., assignor to C. C. Denny, Sterling, Ill., and T. E. Stevens, Blair, Nebr. Automatic regulator for windmills	523,442	July 24	2191	552	68	457
Regester, Thomas L., assignor to Denny & Stevens, Sterling, Ill. Automatic watering-trough	525,772	Sept. 11	783	181	68	1307
Regier, Jacob W., Moundridge, Kans. Band-cutter and feeder	523,997	Aug. 7	20	11, 12	68	671

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Register, Joel E. (See Brown and Register.)						
Reh fuss, George, J. G., and M. O., Philadelphia, Pa., assignors to W. W. Farmer, New York, N. Y. Machine for dressing type.....	527,371	Oct. 9	1141	{ 278 279 280	69	227
Reh fuss, John G. (See Reh fuss, George, J. G., and M. O.)						
Reh fuss, Martin O. (See Adam and Reh fuss.)						
Reh fuss, Martin O. (See Reh fuss, George, J. G., and M. O.)						
Rehm, Jacob F., Chicago, Ill. Fruit cutting and pitting machine.....	517,588	Apr. 3	281	65	67	56
Reh moyer, Henry C., <i>et al.</i> (See Bowers, Lewis M., assignor.)						
Reich, Friedrich H., Baltimore, Md. Safety car-fender.....	521,670	June 19	1632	382	67	1526
Reichart, Frederick. (See Odewahn and Reichart.)						
Reichert, Louis, Scranton, Pa. Drilling-machine.....	517,298	Mar. 27	2627	616	66	1994
Reichman, George, Philadelphia, Pa. Lamp-shade protector.....	528,029	Oct. 23	2220	549	69	465
Reichmann, Joseph, Chicago, Ill. Valve device.....	517,589	Apr. 3	283	66	67	56
Reichmann, Joseph, Chicago, Ill. Hydraulic elevator.....	522,030	June 26	2286	{ 547 548	67	1664
Reid, Clarence E., Baltimore, Md. Ice-shaving machine.....	530,652	Dec. 11	1038	253	69	1419
Reid, Edward L., Collierville, Tenn. Sad-iron heater.....	516,338	Mar. 13	980	233	66	1652
Reid, George, <i>et al.</i> (See Gates, James, assignor.)						
Reid, George H. (See McFarland and Reid.)						
Reid, John, assignor to Nail City Stamping Company, Wheeling, W. Va. Wick-lifter.....	513,059	Jan. 16	2230	536	66	448
Reid, John, Yonkers, assignor to J. L. Mott Iron Works, New York, N. Y. Holder for toilet-paper.....	520,221	May 22	2259	550	67	999
Reid, John, Yonkers, and E. Hammaun, Brooklyn, assignors to J. L. Mott Iron Works, New York, N. Y. Washtub.....	529,568	Nov. 20	1892	450	69	1029
Reid, John L., Davenport, Iowa. Heating-drum or radiator.....	522,534	July 3	609	156	68	120
Reid, John M., Jacksonville, Ill. Hook.....	520,539	May 29	2781	672	67	1113
Reid, Mary, Fairfax, Iowa. Dish-drainer.....	519,736	May 15	1425	344	67	831
Reid, Robert, Philadelphia, Pa. Hydrocarbon-burner.....	519,392	May 8	838	203	67	713
Reid, Samuel, Jersey City, N. J., assignor of one-third to E. G. Tremaine, Brooklyn, N. Y. Tobacco stripping or steaming machine.....	527,885	Oct. 23	2007	{ 481 482	69	415
Reid, William, Du Page, Ill. Grain-separator.....	526,200	Sept. 18	1535	{ 359 360	68	1455
Reif, Charles, <i>et al.</i> (See Häfner, Carl, assignor.)						
Reiff, Charles F., and H. Munk, Fremont, Ohio. Electric cigar-lighter.....	522,919	July 10	1272	315	68	256
Reiff, William H., Philadelphia, assignor of one-half to R. E. M. Evans, Norristown, Pa. Advertising apparatus.....	527,024	Oct. 2	578	140	69	109
Reiffer, Ulrich, assignor of one-half to G. Rupp, St. Louis, Mo. Washing-machine.....	530,900	Dec. 11	1428	339	69	1490
Reiley, James O., and H. P. Myers, Bowdle, S. D. Band-cutter and feeder.....	513,143	Jan. 23	2360	570	66	943
Reiley, Matthew S., assignor of sixty-seven ninety-sixths to R. E. L., G. W., and J. M. White and F. R. Miller, Washington, D. C. Electric signaling apparatus for block systems.....	528,444	Oct. 30	2093	{ 723 724	69	609
Reilly, Benjamin F., Genoa, Ill. Clothes-clamp.....	525,029	Aug. 28	1833	447	68	1042
Reilly, Bernard T., Wilkes-Barré, Pa. Cylinder relief-valve.....	530,853	Dec. 11	1356	323	69	1477
Reilly, James, Calgary, Canada. Clothes-drier.....	529,628	Nov. 20	1977	471	69	1046
Reilly, John C., Brooklyn, N. Y. Electrical subway system.....	524,789	Aug. 21	1402	342	68	948
Reilly, Michael. (See Brooks, Reilly, and Rudkins.)						
Reilly, Michael E., Wallace, Idaho. Shade-roller.....	520,863	June 5	199	45	67	1233
Rein, Bernard, assignor to F. Wiethoff, Detroit, Mich. Sad-iron.....	513,728	Jan. 30	3948	826	66	763
Rein, Bernard, assignor to Union Heater Supply Company, Detroit Mich. Sad-iron.....	530,653	Dec. 11	1039	253	69	1419
Rein, Gustavus. (See Catlin and Rein.)						
Reinecker, Johannes G., Gablenz, near Chemnitz, Germany. Machine for manufacturing relieved-formed revolving tools.....	519,820	May 15	1558	381	67	857
Reingruber, Friedrich. (See Nastvogel and Reingruber.)						
Reinhard, David F. (See Brust, Reinhard, and Dunkel.)						
Reinhard, Thomas J., assignor to P. Sherrer and J. Schmidt, Cleveland, Ohio. Cask-pitching apparatus.....	529,310	Nov. 13	1418	341	69	924
Reinhardt, Edward M. (See Dunlap, William, assignor.)						
Reinhardt, James H., Newark, N. J., assignor to J. Wetter, Brooklyn, N. Y. Numbering-machine.....	521,000	June 5	445	106	67	1277
Reinhardt, James H., Newark, N. J., assignor to J. Wetter, Brooklyn, N. Y. Numbering-machine.....	521,001	June 5	446	106	67	1277
Reinhold, Edwin L., <i>et al.</i> (See Werline, Henry E., assignor.)						
Reinus, Bernard, Paterson, N. J. Purifying tannic acid.....	517,626	Apr. 3	344	.....	67	67
Reis, Theodor, Cincinnati, Ohio. Sheet-metal can.....	516,403	Mar. 13	1099	262	66	1673
Reiser, Christ, Westlake, La. Sawmill-feed.....	523,239	July 17	1844	464	68	377
Reiset, Frederic, <i>et al.</i> (See Busch, Frederic C., assignor.)						
Reising, Casper, assignor of one-half to L. V. Walkley, Southington, Conn. Sheet separating and printing machine.....	525,999	Sept. 11	1178	{ 268 269 270	68	1378
Reiss, Edward C., <i>et al.</i> (See Enholm, Oscar A., assignor.)						
Reiss, Ernest v., New Orleans, La. Apparatus for removing impurities from smoke.....	517,297	Mar. 27	2626	616	66	1994
Reisse, William, St. Louis, Mo. Pan-lifter.....	519,549	May 8	1113	267	67	762
Reist, Cyrus P., Lebanon, Ind. Support for fence posts.....	513,200	Jan. 23	2446	591	66	559
Reist, Henry G., Lynn, assignor to General Electric Company, Boston, Mass. Armature for dynamo-electric machines.....	523,685	July 31	2625	{ 652 653	68	552
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company, of New York. Commutator.....	526,742	Oct. 2	123	29	69	24
Reitter, Christian, Saginaw, Mich. Printer's queue.....	531,332	Dec. 25	2216	530	69	1664
Relay Manufacturing Company. (See Ziegler, John G., assignor.)						
Relyea, Charles H. W., North Adams, Mich. Car-coupling.....	518,745	Apr. 24	2279	566	67	460
Relyea, David S. (See Knight, Chichester, and Relyea.)						
Rembert, Henry, Willis, Tex. Cotton-cleaner.....	530,458	Dec. 4	652	{ 162 163	69	1335
Remick, Edward A., Newark, N. J., and P. Fleck, Long Island City, N. Y. Watchcase-spring.....	519,926	May 15	1726	423	67	888
Remington Arms Company. (See Fay, Rimonon C., assignor.)						
Remington Arms Company. (See Fay and Humphreys, assignors.)						
Remington-Sholes Typewriter Company. (See Sholes, Zalmom G., assignor.)						
Rommel, Nicholas, Kewaskum, Wis. Drilling-machine.....	525,742	Sept. 11	733	169	68	1298
Remmers, Bernhard, assignor of one-half to A. P. Mende, New York, N. Y. Purifying water.....	521,964	June 26	2167	520	67	1643
Remsen, Timothy A., Brooklyn, N. Y. Switch for electric-railway cars.....	524,532	Aug. 14	976	239	68	856
Remus, Teodor, Dresden, Germany. Apparatus for bending strawboard.....	529,192	Nov. 13	1203	290	69	884

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Reneau, James W., Houston, Tex. Car-wheel lubricator	527,447	Oct. 16	1361	310	69	262
Renchan, James J., New Britain, Conn. Electric-lamp support	523,007	July 17	1432	358	68	301
Reniker, James, Deunison, Ohio. Dnst-pan	521,044	June 5	524	123	67	1292
Renkert, Jacob J. (See Rutter, George S. M., assignor.)						
Reno, Henry J. (See Renn, John F., assignor.)						
Renn, John F., assignor of one-half to H. J. Renn, Trevorton, Pa. Egg-beater	515,249	Feb. 20	2091	519	66	1278
Rennerfelt, Gustaf, Lynn, Mass. Dynamo-electric machine	523,998	Aug. 7	52	12	68	671
Rennyson, William, Norristown, Pa. Machine for mixing mortar	530,654	Dec. 11	1040	254	69	1419
Reno, Joseph. (See Bugbee and Reno.)						
Renshaw, James, Denver, Colo. Sinking pump	512,991	Jan. 16	2131	507	66	429
Renter, Charles H., Allegheny, Pa. Match-safe	523,691	Nov. 6	306	75	69	701
Renter, George W., et al. (See Rothschild, Joseph, assignor.)						
Renwick, Edward S., Millburn, N. J. Carriage-wheel	531,447	Dec. 25	2431	579	69	1706
Verdon, Patrick F., assignor of one-half to J. McDade, Kane, Pa. Hydrocarbon-gas-black machine	523,945	July 31	3102	772	68	641
Ressler, John W. (See Fleming and Ressler.)						
Retsloff, Otto C., Winnebago, Minn. Sprinkler	511,799	Jan. 2	82	21	66	19
Renkanff, George C., Philadelphia, Pa. Ornament for picture, mirror, or other frames	512,900	Jan. 16	1983	470	66	403
Reuleaux, Josef. (See Langhlin and Reuleaux.)						
Reus, Michael, Escatawpa, Miss. Fruit-gatherer	527,622	Oct. 16	1553	376	69	316
Reussner, Albert F. L., assignor of one-half to W. C. Barr, Jersey City, N. J. Steam-boiler	530,901	Dec. 11	1429	{ 339 340 }	69	1491
Renter, Alexander L., et al. (See Farmer, Julius M., assignor.)						
Reuter, Henry, et al. (See Farmer, Julius M., assignor.)						
Reuter & Mallory. (See Struck, Charles E., assignor.) (Reissue.)						
Renterdahl, Arvid. (See Berglund and Reuterdahl.)						
Reuther, Johan W. (See Mélotte, Jules, assignor.)						
Reuther, Wilhelm. (See Mélotte and Reuther.)						
Revolving Advertiser Company. (See Beaumont, Frederick J., assignor.)						
Rex, Benjamin F., St. Louis, Mo. Electric railway-signal	518,511	Apr. 17	1863	{ 462 463 }	67	372
Rex, David J. (See Daub and Rex.)						
Rey, Paul W. A., Lubeck, Germany. Wardrobe	512,519	Jan. 9	1324	319	66	262
Reyels, Henry, and F. Ebert, Chicago, Ill. Machine for cutting and cleaning entrails	519,685	May 8	1343	324	67	503
Reynolds, Abram D. (See Fields, Charles C., assignor.)						
Reynolds, Andrew, Seattle, Wash. Device for removing ashes from locomotive ash-pans	529,408	Nov. 20	1598	380	69	977
Reynolds, Andrew J., assignor to G. Haseltine, Hoboken, N. J. Reed-organ	523,649	July 24	2548	639	68	522
Reynolds, Benjamin S. (See Orr and Reynolds.)						
Reynolds, Bloomer A., Rochelle, Ill. Potato-digger	521,940	June 26	2115	{ 507 508 }	67	1635
Reynolds, David R., Philadelphia, Pa. Toy bank	519,643	May 8	1276	306	67	790
Reynolds, Edwin. (See Benn, Alfred R., assignor.)						
Reynolds, Edwin, Milwaukee, Wis. Means for centering face-plates for lathes	522,122	June 26	2431	584	67	1691
Reynolds, Edwin, Milwaukee, Wis. Valve mechanism for blowing-engines	522,273	July 3	179	49	68	37
Reynolds, Edwin, Milwaukee, Wis. Valve mechanism	522,304	July 3	224	60	68	45
Reynolds, Ella J., et al. (See Reynolds, Hamline W., assignor.)						
Reynolds, George H., New York, N. Y., assignor, by mesne assignments, of one-half to National Company, Chicago, Ill. Hydro-engine for operating elevators	518,700	Apr. 24	2184	{ 546 547 }	67	445
Reynolds, George H., New York, N. Y., assignor to Crane Elevator Company, Chicago, Ill. Hydraulic elevating apparatus	524,046	Aug. 7	124	23, 29	68	685
Reynolds, Hamline W., assignor to A. B. Smith, E. J. Reynolds, and J. C. Knapp, Geneva, N. Y. Boiler	517,826	Apr. 3	677	{ 168 169 196 296 297 }	67	131
Reynolds, Henry L., and H. W. Ketchum, Seattle, Wash. Winding-engine	519,619	May 8	1233	297	67	783
Reynolds, Henry S., Brooklyn, N. Y. Machine for forming wire hinges or links	519,160	May 1	396	96	67	614
Reynolds, Henry S., Brooklyn, N. Y. Machine for forming wire bails	520,864	June 5	200	45	67	1233
Reynolds, Irving H., assignor of one-half to Edward P. Allis Company, Milwaukee, Wis. Valve-controlling mechanism	518,651	Apr. 24	2098	{ 523 524 }	67	428
Reynolds, John, London, England. Apparatus for heating and ventilating, &c.	515,250	Feb. 20	2093	{ 519 520 }	66	1278
Reynolds, John H. (See Gerdum, Gregory, assignor.)						
Reynolds, John H., Chicago, Ill. Street-sweeper	524,563	Aug. 14	1030	254	68	867
Reynolds, Joseph A., assignor of one-half to J. H. Vaughn, W. L. Jones, and G. W. Knoebel, Santa Fé, N. Mex. Ter. Wrench	525,292	Aug. 28	2268	552	68	1121
Reynolds, Myron H., Olean, N. Y. Grinding and polishing machine	520,048	Nov. 13	953	226	69	839
Reynolds, Richard J., and G. M. Jones, Springville, Ala. Car-coupling	518,965	May 1	49	13	67	545
Reynolds, Stephen H. (See Hood and Reynolds.)						
Reynolds, Wyrthington, et al. (See Green, Ira L., assignor.)						
Rheinberg, Nathan, London, England. Comb	527,509	Oct. 16	1371	334	69	233
Rhetts, John E., Salem, Ind. Secondary battery	528,445	Oct. 30	2998	724	69	610
Rhind, Frank, Meriden, assignor to Bridgeport Brass Company, Bridgeport, Conn. Signal-lantern for bicycles	520,658	May 29	2976	720	67	1149
Rhind, Frank, Meriden, assignor to Bridgeport Brass Company, Bridgeport, Conn. Signal-lantern for bicycles	520,659	May 29	2977	720	67	1149
Rhind, Frank, Meriden, assignor of one-half to Bridgeport Brass Company, Bridgeport, Conn. Central-draft lamp. (Reissue.)	11,436	Aug. 28	2338	565	68	1133
Rhind, Frank, Meriden, assignor to Bridgeport Brass Company, Bridgeport, Conn. Wick-raiser	525,720	Sept. 11	693	{ 160 161 }	68	1291
Rhind, Frank, Meriden, assignor to Bridgeport Brass Company, Bridgeport, Conn. Shade or globe holder	527,289	Oct. 9	1008	244	69	201
Rhind, Frank, Meriden, assignor to Bridgeport Brass Company, Bridgeport, Conn. Device for suspending lamps	530,459	Dec. 4	655	163	69	1335
Rhind, Frank, Meriden, assignor to Bridgeport Brass Company, Bridgeport, Conn. Lamp-burner	531,219	Dec. 18	2011	477	69	1611
Rhino, John, Hecla, Mont. Door-securer	512,218	Jan. 2	811	197	66	154
Rhoades, Alonzo E., assignor to G. Draper & Sons, Hopedale, Mass. Separator for spinning-frames	523,644	July 24	2539	637	68	521
Rhoades, Alonzo E., assignor to G. Draper & Sons, Hopedale, Mass. Separator for spinning-frames	531,561	Dec. 25	2617	627	69	1742
Rhoades, Alonzo E., and G. A. Draper, assignors to Hopedale Machine Company, Hopedale, Mass. Twister-roll	513,826	Jan. 30	3487	859	66	790
Rhoades, Monroe, Warsaw, Ind., and C. L. Fluck, East Greenville, Pa. Fence-post	523,905	July 31	3014	749	68	623
Rhoads, Daniel C., et al. (See Rhoads, John, assignor.)						
Rhoads, Henry W., Passaic Bridge, N. J., assignor to Rhoads Sash Balance Company, San Francisco, Cal. Sash-fastener	514,035	Feb. 6	95	25	66	872

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Rhoads, John, assignor of two-thirds to J. F. and D. C. Rhoads, Philadelphia, Pa. Freight-car	526,261	Sept. 18	1629	382	68	1473
Rhoads, John F., <i>et al.</i> (See Rhoads, John, assignor.)						
Rhoads, John H., and G. H. Spannagel, Nokomis, Ill. Food-screen	526,942	Oct. 2	455	112	69	86
Rhoads, John N., Philadelphia, Pa. Trousers-fastener	531,063	Dec. 18	1714	407	69	1557
Rhoads Sash Balance Company. (See Howard, Ans. n M., assignor.)						
Rhoads Sash Balance Company. (See Rhoads, Henry W., assignor.)						
Rhoden, George, Cleveland, Ohio. Smoke-consumer	517,238	Mar. 27	2523	593	66	1975
Rhodes, Daniel, Washington, D. C. Nut-lock	530,963	Dec. 18	1543	365	69	1526
Rhodes, John F., Athens, Ga. Combined pea thrasher and separator	522,493	July 3	540	138	68	107
Rhodes, John W., Havana, Ill., assignor to Pioneer Thrasher Company, Minneapolis, Minn.	517,887	Apr. 10	768	191	67	162
Ribard, Paul, Marseilles, France. Railway signaling apparatus	522,494	July 3	542	138	68	107
Ribereau y Marteaux, Louis, Havana, Cuba. Machine for making molds	519,310	May 1	672	163 164 165	67	667
Rice, Abraham L., Wright, Iowa. Hay-loader	527,510	Oct. 16	1373	334	69	284
Rice, Arthur H. (See Locke, Frank D., assignor.)						
Rice, Charles L., assignor of one-half to T. G. Maybohm, Granite Falls, Minn. Door-operating device	526,636	Sept. 25	2273	544	68	1608
Rice, David H., deceased, Brookline; C. M. Williams, Lowell, Mass., W. R. Chester, and L. H. Rice, executors. Electric calling apparatus	517,299	Mar. 27	2628	617	66	1994
Rice, David H., Brookline, assignor to C. G. Sargent's Sons, Graniteville, Mass. Wool-washing machine	521,817	June 26	1894	454	67	1591
Rice, David H., Brookline, assignor to C. G. Sargent's Sons, Graniteville, Mass. Wool-washing machine	521,818	June 26	1895	454 455	67	1592
Rice, Edmund, U. S. Army. Combined military garment and belt	523,177	July 17	1745	437	68	360
Rice, Edwin W., Jr. (See Thomson and Rice.)						
Rice, Edwin W., Jr., Swampscott, assignor to General Electric Company, Boston, Mass. System of electric distribution	516,835	Mar. 20	1826	432 433	66	1825
Rice, Edwin W., Jr., Swampscott, assignor to General Electric Company, Boston, Mass. System of electrical distribution	516,836	Mar. 20	1829	433	66	1825
Rice, Edwin W., Jr., Swampscott, assignor to General Electric Company, Boston, Mass. Alternating-current generator	523,779	July 31	2791	693	68	581
Rice, Edwin W., Jr., Swampscott, assignor to General Electric Company, Boston, Mass. Dynamo-electric machine	526,743	Oct. 2	124	29, 30	69	25
Rice, Edwin W., Jr., Lynn, assignor to General Electric Company, Boston, Mass. Armature for dynamo-electric machines	516,837	Mar. 20	1832	433	66	1826
Rice, Edwin W., Jr., Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Motor-suspension for railway-work	524,117	Aug. 7	249	58	68	707
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company, of New York. Armature for dynamo-electric machines	521,671	June 19	1633	383	67	1526
Rice, Elliott S. (See Hisey, Charles S., assignor.)						
Rice, Elliott S. (See Hisey and Rice.)						
Rice, George M., Jr., Worcester, Mass. Method of and apparatus for the treatment of ores	511,800	Jan. 2	83	21	66	19
Rice, Keness F. (See Pendergrass and Rice.)						
Rice, Lafayette M., Leavenworth, Kans. Window-shade appliance	516,315	Mar. 13	942	221	66	1646
Rice, Lepine H., <i>et al.</i> , executors. (See Rice, David H.)						
Rice, Nathaniel B., Chicago, Ill. Brick-machine	516,023	Mar. 6	470	108 109 110	66	1540
Rice, Richard H. (See Sargent and Rice.)						
Rice, Robert H., Fremont, Ohio. Device for inflating pneumatic tires	523,443	July 24	2194	552	68	457
Rice, Thomas C., Worcester, Mass. Street-car fender	524,734	Aug. 21	1314	322	68	932
Rice, William. (See Scott, Barton W., assignor.)						
Rice, William, Rome, Pa. Holdhack	520,612	May 29	2904	701	67	1136
Rice, William H. (See Norton, Stephen, assignor.)						
Rice, William H. (See Norton and Rice.)						
Rice, William H., Rochester, N. Y. Safety-guard for street-cars	525,115	Aug. 28	1992	487	68	1069
Rice, William S., Smithville, N. Y. Truss	523,844	July 31	2918	727 728	68	606
Rich, Emanuel A., New York, N. Y. Moistening device for cigar-boxes	512,121	Jan. 2	653	156	66	125
Rich, Emanuel A., New York, N. Y. Moistening device for cigar-boxes	512,122	Jan. 2	654	156	66	125
Rich, Emanuel A., New York, N. Y. Moistening device for cigar-boxes	512,219	Jan. 2	812	197	66	154
Rich, Harrison, Corralitos, Cal. Rotary drier	522,767	July 10	1040	256	68	212
Rich, Henry B., New York, N. Y. Pin for neckwear	526,055	Sept. 18	1272	294	68	1408
Rich, Louis F. C., and J. H. Hull, New York, N. Y. Auger for boring and reaming	529,049	Nov. 13	954	226	69	840
Rich, Thomas. (See Sanford, Ross M., assignor.)						
Richards, Charles A., assignor of one-half to B. F. Fox, Reading, Pa. Registering savings-bank	527,290	Oct. 9	1009	245 270 271 272 273	69	201
Richards, Charles R., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Machine for printing wads on both sides	524,610	Aug. 14	1095	271 272 273	68	879
Richards, Charles W., Cleveland, Ohio. Wire-feeding device for nail-machines	526,117	Sept. 18	1385	322 323	68	1427
Richards, Elias, and R. Lucas, New Orleans, La. Stop-motion for doubling-frames	522,495	July 3	544	139	68	108
Richards, Francis H., Hartford, Conn. Telephone-transmitter	513,729	Jan. 30	3349	826	66	764
Richards, Francis H., Hartford, Conn. Telephone-transmitter	513,730	Jan. 30	3352	826 827	66	764
Richards, Francis H., Hartford, Conn. Antifriction-roller	519,591	May 8	1182	285	67	775
Richards, Francis H., Hartford, Conn. Boring-tool	525,116	Aug. 28	1993	487	68	1070
Richards, Francis H., Hartford, Conn. Knob attachment	530,624	Dec. 11	980	211	69	1410
Richards, Francis H., Hartford, Conn., assignor to W. Wood, Philadelphia, Pa. Turret-lathe	513,653	Jan. 30	3224	791 792	66	740
Richards, Francis H., Hartford, Conn., assignor to W. Wood, Philadelphia, Pa. Turret-machine for boring cylinders	513,827	Jan. 30	3488	859 860	66	791
Richards, Francis H., Hartford, Conn., assignor to W. Wood, Philadelphia, Pa. Horizontal drilling-machine	515,129	Feb. 20	1888	474 475	66	1238
Richards, Francis H., Hartford, Conn., assignor to W. Wood, Philadelphia, Pa. Valve-body	515,364	Feb. 27	2301	571 572	66	1330
Richards, Francis H., Hartford, Conn., assignor to W. Wood, Philadelphia, Pa. Turret-lathe	515,365	Feb. 27	2303	572	66	1330
Richards, Francis H., Hartford, Conn., assignor to W. Wood, Philadelphia, Pa. Seating valve-bodies	516,658	Mar. 20	1543	367	66	1773

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Richards, Francis H., Hartford, Conn., assignor to W. Wood, Philadelphia, Pa. Turret mechanism	517,168	Mar. 27	2413	568	66	1953
Richards, Francis H., assignor to J. P. Lee, Hartford, Conn. Cartridge-elevating mechanism	515,130	Feb. 20	1892	475 476	66	1240
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Furnace	515,612	Feb. 27	2695	670	66	1405
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	517,067	Mar. 27	2243	531	66	1919
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Furnace	517,627	Apr. 3	345	82	67	67
Richards, Francis H., Hartford, Conn., assignor to W. Wood, Philadelphia, Pa. Turret-lathe	518,969	May 1	52	13	67	546
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	527,448	Oct. 16	1262	310 311	69	262
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	527,449	Oct. 16	1264	311 312	69	263
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	527,450	Oct. 16	1268	312	69	263
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	527,451	Oct. 16	1272	312 313	69	264
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	527,452	Oct. 16	1275	313	69	265
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-floor furnace	527,453	Oct. 16	1279	314	69	267
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	527,454	Oct. 16	1284	314 315	69	268
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	527,455	Oct. 16	1288	315	69	269
Richards, Francis H., Hartford, Conn., assignor to E. B. Cox, Drifton, Pa. Traveling-grate furnace	527,719	Oct. 16	1708	412	69	345
Richards, Frank C., Felicity, Ohio. Permutation-lock	530,551	Dec. 11	856	211	69	1387
Richards, Frank P., Edinburg, Ill. Straw-stacker	513,597	Jan. 30	3118	766	66	722
Richards, George C., San Francisco, Cal. Fruit-box	524,564	Aug. 14	1032	254	68	867
Richards, George L., et al. (See Weale, Henry P., assignor.)						
Richards, John A., Capon Road Station, Va. Bicycle	513,144	Jan. 23	2361	570	66	544
Richards, Marcus C., assignor to Wilcox Manufacturing Company, Aurora, Ill. Door-hanger	518,276	Apr. 17	1449	362 363 217 218	67	293
Richards, Orlando, Bristol, Wis. Horse hay-rake	521,271	June 12	918	218	67	1377
Richards, Samuel L. (See Fall, Wineland, and Richards.)						
Richards, Thomas M., Ebensburg, Pa. Reversible toboggan-slide	512,326	Jan. 9	982	241	66	198
Richards, Thomas S. (See Hackworth and McLellan, assignors.)						
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-buffer	520,573	May 29	2840	685 686	67	1124
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-buffer	520,574	May 29	2842	686	67	1125
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-buffer	520,575	May 29	2843	686 687	67	1125
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Locomotive-buffer	524,072	Aug. 7	173	39	68	693
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Car-buffer	524,217	Aug. 7	427	101 102	68	40
Richards, Willard F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Vestibule-car	526,540	Sept. 25	2125	509	68	1579
Richards, William. (See Norton and Richards.)						
Richards, William T. (See Dodge and Richards.)						
Richards, William T. (See Dodge, Tilton, and Richards.)						
Richards, Wilton L., Malden, assignor to American Bell Telephone Company, Boston, Mass. Electric telephone	521,220 529,311	June 12 Nov. 13	831 1419	195 341	67 69	1361 924
Richardson, Albert C., South Frankfort, Mich. Casket-lowering device	525,158	Aug. 28	2066	504	68	1082
Richardson, Charles, assignor to Queen City Ventilated Barrel and Basket Company, Buffalo, N. Y. Knockdown package or barrel	518,117	Apr. 10	1169	67	67	230
Richardson, Charles G., Toronto, Canada. Refining nickel and copper mattes						
Richardson, Charles H. (See Lusby and Richardson.)						
Richardson, Charles H., assignor to S. S. White Dental Manufacturing Company, Philadelphia, Pa. Controlling mechanism for electric motors	523,444	July 24	2195	552 553	68	458
Richardson, David, Indianapolis, Ind. Railway-track liner	525,117	Aug. 28	1995	488	68	1070
Richardson, David A., Paulding, Ohio. Fence	515,019	Feb. 20	1715	431	66	1209
Richardson, Dwight S., Brooklyn, N. Y. Heater	521,420	June 12	1180	280 281	67	1427
Richardson, Dwight S., Brooklyn, N. Y. Boiler-furnace	529,409	Nov. 20	1599	380	69	977
Richardson, Ebenezer, Sheffield, England. Apparatus for turning leaves of music, &c	523,008	July 17	1435	358 359	68	302
Richardson, Edwin A., Cumberland Mills, Me. Cleaning attachment for pulp-screens	529,193	Nov. 13	1204	291	69	884
Richardson, Edwin F., Boston, Mass. Apparatus for fastening fire-hose to ladders	530,656	Dec. 11	1043	254	69	1420
Richardson, Erasmus, Esbon, Kans. Horseshoe	530,797	Dec. 11	1268	306	69	1461
Richardson, George, et al. (See Armistead, Fabian H., assignor.)						
Richardson, George A., assignor of one-half to J. W. Richardson, Reading, Mass. Shoe and making same	513,368	Jan. 23	2716	660	66	612
Richardson, George O., Summerville, Oreg. Folding bed	512,901	Jan. 16	1924	471	66	403
Richardson, George W., Chicago, Ill. Comb-cleaner	520,613	May 29	2905	701	67	1137
Richardson, Hamilton A. (See Barnevit, John, assignor.)						
Richardson, Henry, Lichfield, England. Grain-weighing machine	520,336	May 22	2450	595	67	1036
Richardson, Herbert, assignor of one-half to F. W. Tidball, Grand Rapids, Mich. Reed-organ	516,990	Mar. 20	2087	494	66	1873
Richardson, Isaac, Cleveland, Ohio. Coin-controlled machine	527,886	Oct. 23	2010	482	69	416
Richardson, James A., San Francisco, Cal. Fish-ladder	530,555	Dec. 11	1042	254	69	1419
Richardson, James V., Farmville, Va. Railway-signal	530,798	Dec. 11	1269	306 307	69	1462
Richardson, Jason W. (See Richardson, George A., assignor.)						
Richardson, Jay C., assignor to Union National Gas Saving Company, New York, N. Y. Valve for gas-saving regulators	515,968	Mar. 6	372	88	66	1522
Richardson, John P., Cambridge, assignor to Mason & Hamlin Organ and Piano Company, Boston, Mass. Music-desk for upright pianos	517,239	Mar. 27	2525	593	66	1975
Richardson, John S., et al. (See Norwood, George, assignor.)						
Richardson, John T., Harrisburg, assignor of one-half to A. H. Ege, Mechanicsburg, Pa. Dumping-wagon	529,878	Nov. 27	2398	574	69	1133

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Richardson, Jonathan. (See Murphy and Richardson.)						
Richardson Manufacturing Company. (See Aiguier, Edward B., assignor.)						
Richardson, Myron H., Windom, Kans. Windmill	516,900	Mar. 25	1933	456	66	1845
Richardson, Thomas L., Hoisington, Kans. Air-brake attachment	513,145	Jan. 23	2362	{ 570 571 }	66	544
Richardson, William, deceased, and J. Fidler, deceased; C. L. Sturtevant, administrator, assignor to Platt Brothers & Company, Limited, Oldham, England. Cotton-opener and stopping mechanism therefor	520,832	June 5	140	30, 31	67	1223
Richardson, William S., Boston, J. B. and P. B. Chase, Newton, Mass. Device for attaching members of glove or other fastenings	530,657	Dec. 11	1044	{ 254 255 }	69	1420
Richardson, Willie A., assignor to A. Curtis and E. T. Marble, Worcester, Mass. Cloth-folding machine	519,073	May 1	231	54	67	580
Richardson, Willis S., assignor to Newark Watch Case Material Company, Newark, N. J. Watchcase-pendant	517,933	Apr. 10	846	213	67	177
Richardson, Willis T., David City, Nebr. Nut-lock	521,941	June 26	2118	508	67	1635
Richardson, Winfield S., Camden, N. J., assignor of one-half to F. A. Tygert, Philadelphia, Pa. Water heating and feeding apparatus for steam-boilers	513,955	Jan. 30	3657	907	66	831
Richberg, John C., Chicago, Ill. Table-cutlery	513,146	Jan. 23	2385	571	66	544
Richberger, George, Clarksdale, Miss. Spool-cabinet	529,081	Nov. 13	1010	244	69	849
Richell, Ernest A. (See Mooers and Richell.)						
Richey, Frank W., Chicago, Ill. Staple-fastener for wooden vessels or boxes	527,184	Oct. 9	824	200	69	169
Richey, James. (See Pendergrass and Rice, assignors.)						
Richey, Virgil G., assignor of one-half to G. W. Pottle, Dayton, Ohio. Seed-planter	526,744	Oct. 2	126	30	69	25
Richie, Walter J., Lima, Ohio, assignor, by mesne assignments, to C. F. Zimmermann Company, Dolgeville, N. Y. Harp	518,512	Apr. 17	1869	463	67	373
Richman, Alfred D., Daretown, N. J. Milk-can attachment	518,550	Apr. 17	1926	476	67	388
Richmond, Charles F., Mattoon, Ill. Garment-supporter and underwaist	524,218	Aug. 7	429	102	68	740
Richmond, George B., Lansing, Mich. Dental disk-carrier	518,701	Apr. 24	2192	548	67	445
Richmond, George B., Lansing, Mich. Dental pellet	525,797	Sept. 11	826	188	68	1315
Richmond, George B., Lansing, Mich. Dental-pellet machine	525,798	Sept. 11	828	{ 188 189 }	68	1315
Richmond, Henry T., Malvern, Iowa. Neck-yoke attachment	527,372	Oct. 9	1144	280	69	227
Richmond, Henry T., Malvern, Iowa. Neck-yoke center	527,373	Oct. 9	1145	281	69	227
Richmond Locomotive and Machine Works. (See Mellin, Carl J., assignor.)						
Richmond, Samuel H., Norwalk, assignor of one-half to J. H. Clute and F. M. Raymond, Westport, Conn. Sectional ventilating-chimney	512,566	Jan. 9	1389	335	66	274
Richmond, Samuel H., Norwalk, assignor of one-half to J. H. Clute and F. M. Raymond, Westport, Conn. Sectional ventilating-chimney	515,482	Feb. 27	2488	{ 615 616 }	66	1364
Richter, Adolf, Rudolstadt, Germany. Damper for musical instruments	527,811	Oct. 23	1866	448	69	391
Richter, Carl H., Boizenburg, Germany. Sash-fastener	513,418	Jan. 23	2790	683	66	627
Richter, Ernest W., Washington, D. C. Means for preventing air-bubbles in ice	529,194	Nov. 13	1205	291	69	885
Richter, Ernst. (See Hoffmann and Richter.)						
Richter, Ernst, assignor to Siemens & Halske, Berlin, Germany. Utilizing electric motors for operating machinery	528,608	Nov. 6	145	36	69	673
Richter, Friedrich A., Rudolstadt, Germany. Spring-winding mechanism	513,532	Jan. 30	3015	744	66	703
Richter, Friedrich A., Rudolstadt, Germany. Musical instrument	518,929	Apr. 17	1538	383	67	313
Richter, Friedrich A., Rudolstadt, Germany. Musical instrument	519,737	May 15	1426	344	67	831
Richter, John A. (See Gilhaus and Richter.)						
Richter, Max. (See Sudheimer, Thon, and Richter.)						
Richter, Max M. F., Hamburg, Germany. Composition for pacifying waves of the sea	519,161	May 1	399	.....	67	614
Richter, Reinhold, Gablonz, Austria-Hungary. Apparatus for forming sand molds	519,350	May 8	766	187	67	699
Rick, John J., and L. Larson, Centralia, Wis. Horse-detacher	520,337	May 22	2454	595	67	1036
Rickabach, William H., assignor of one-half to W. L. Huston, Mishawaka, Ind. Elevator	517,768	Apr. 3	595	146	67	115
Rickard, Benjamin F. and W. H., Harrisonburg, and S. S. Miller, Bridgewater, Va. Vehicle-brake	529,668	Nov. 20	2045	490	69	1058
Rickard, Sidney A. (See Spaulding, Harlow E., assignor.)						
Rickard, William H. (See Rickard and Miller.)						
Ricker, John W., Chelsea, Mass., assignor of one-half to G. A. Horn, Newark, N.Y. Churn-dasher	514,164	Feb. 6	310	74	66	911
Ricker, John W., Chelsea, Mass., assignor of one-half to G. A. Horn, Newark, N.Y. Churn-dasher	521,920	June 26	2073	498	67	1626
Ricker, William H., Cambridge, Mass. Fountain for the distribution of soda-water	512,058	Jan. 2	546	128	66	104
Ricketts, James J., Pittsburg, Pa. Coupling for water-closets	515,925	Mar. 6	301	71	66	1510
Ricketts, John L., et al. (See Savage, Charles G., assignor.)						
Ricketts, Pierre D., New York, N. Y. Electrolytic separation of nickel from copper	514,276	Feb. 6	515	.....	66	950
Rickey, Israel E., Oakland, Cal. Electric annunciator	514,686	Feb. 13	1188	296	66	1094
Riddell, De Witt C., et al. (See Staniford, Frank C., assignor.)						
Riddell, John, Saugus, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Milling-machine	516,838	Mar. 20	1833	{ 433 434 }	66	1827
Riddell, John, Saugus, Mass., assignor to General Electric Company, of New York. Concentric clamp	523,009	July 17	1437	359	68	302
Riddell, Newton N., Raymond, Nebr. Boring-machine	529,506	Nov. 20	1784	425	69	1009
Ridelle, Philip S., Woodstock, Va. Revolving window-sash	514,773	Feb. 13	1330	333	66	1122
Ridder, John F., Quincy, Ill. Bill or account holder	517,590	Apr. 3	266	67	67	56
Riddle, John B., Morganfield, Ky. Protractor	513,828	Jan. 30	3494	860	66	792
Rider, Frederick W., et al. (See Walker, William E., assignor.)						
Rider, Herbert E., assignor to A. Falck, New York, N. Y. Electric railway	525,864	Sept. 11	968	217	68	1339
Rider, Herbert E., and J. H. Lewis, New York, N. Y. Apparatus for generating steam by electricity	516,167	Mar. 6	695	164	66	1583
Ridge, Fred. D., Nashville, Tenn. Fruit cutter and press	515,791	Mar. 6	103	24	66	1473
Ridge, Joseph, Chicago, Ill. Vehicle	530,552	Dec. 11	858	{ 211 212 }	69	1388
Ridgeway, Otto B., et al. (See Shaw, George V., assignor.)						
Ridgway, Edward, Jr., Philadelphia, Pa. Glove or garment fastening	523,547	July 24	2383	598	68	491
Ridgway, John J., Brooklyn, N. Y. Lock	513,279	Jan. 23	2584	625	66	588
Ridgway, John J., Brooklyn, N. Y. Lock	522,430	July 3	453	115	68	90
Ridings, John H., Morris, Ill. Combined bay rake, tedder, and loader	521,247	June 12	875	{ 207 208 }	67	1369
Ridout, Chester G., E. M., and M. T., assignors of one-fourth to W. D. Graham, Hutchinson, Minn. Carriage-top	514,383	Feb. 6	684	173	66	982
Ridout, Edgar M. (See Ridout, Chester G., E. M., and M. T.)						
Ridout, Moses T. (See Ridout, Chester G., E. M., and M. T.)						
Ridsdale, Charles H., Guisbrough, England. Lubricator	517,300	Mar. 27	2631	617	66	1995

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Riedel, John M. (See Frederick and Riedel.)						
Riedel, Josef, Vienna, Austria-Hungary. Self-acting brake for roller-skates.....	521,181	June 12	762	178	67	1348
Riedy, John P., Williamsport, Pa. Lumber-stamping attachment for sawing or trimming machines.....	529,195	Nov. 13	1206	291	69	885
Riegelmann, Emil, Angsburg, Germany. Valve for expansion-cylinders of vapor-compression engines.....	521,731	June 19	1735	412	67	1546
Riegle, David F., Portland, Oreg. Hotel-register.....	526,581	Sept. 25	2185	522	68	1580
Riehle, Frederick A. (See Buzzy, Charles E., assignor.)						
Riemann, Henry A., Hannibal, Mo. Mitering-machine.....	521,769	June 19	1816	431	67	1559
Rieppel, John, Cowanesque, Pa. Pump.....	514,336	Feb. 6	618	{ 157 158 257 }	66	969
Riera y Hernandez, José, Havana, Cuba. Cigarette-machine.....	516,392	Mar. 13	1084	257	66	1669
Ries Electric Specialty Company. (See Ries, Elias E., assignor.)						
Ries, Elias E., assignor to Ries Electric Specialty Company, Baltimore, Md. Regulating-socket for electrical apparatus.....	515,969	Mar. 6	374	88	66	1523
Ries, Elias E., assignor to Ries Electric Specialty Company, Baltimore, Md. Electric-current regulator.....	515,970	Mar. 6	378	89	66	1523
Ries, Elias E., assignor to Ries Electric Specialty Company, Baltimore, Md. Portable regulator for electric currents.....	515,971	Mar. 6	382	89	66	1524
Ries, Elias E., and G. J. Scott, Baltimore, Md. Electric motor.....	519,272	May 1	592	{ 144 145 }	67	652
Ries, George A., San Francisco, Cal. Cock for gas-burners.....	518,536	Apr. 17	1907	472	67	380
Riesen, Cornelius von, Beatrice, Nebr. Band-cutter and feeder.....	522,230	July 3	94	22	68	18
Riesinger, George, Buffalo, N. Y. Ice-velocipede.....	528,745	Oct. 2	127	30	69	25
Rife, William A., Waynesborough, Va. Hydraulic ram or engine.....	519,970	May 15	1800	{ 442 443 }	67	901
Rigby, Arthur. (See Reading and Rigby.)						
Rigby, Brierley K., Ditton, assignor of one-half to F. A. R. Neill, St. Helens, and A. C. Carr, Rainhill, England. Manufacture of cement.....	523,645	July 24	2541	637	68	521
Rigby, Brierley K., Ditton, assignor of one-half to F. A. R. Neill, St. Helens, and A. C. Carr, Rainhill, England. Manufacture of cement.....	526,910	Oct. 2	407		69	76
Rigby, Nicholas L., and H. B. Reeves, Los Angeles, Cal. Windmill.....	527,157	Oct. 9	784	{ 191 192 }	69	160
Rigby, Richard, Fall River, Mass. Loom-temple.....	515,720	Feb. 27	2873	716	66	1440
Rigdon, William. (See Crossley, Stout, and Rigdon.)						
Riggs, George P., assignor of one-half to W. Heald, Sistersville, W. Va. Bullet-mold.....	521,819	June 26	1897	455	67	1592
Righter, Thomas M., Mount Carmel, Pa. Coal washer and separator.....	531,562	Dec. 25	2618	627	69	1742
Rightmire, Harry C., assignor of one-half to T. A. Pearce, Philadelphia, Pa. Holddown for knitting-machines.....	513,441	Jan. 23	2827	694	66	633
Rightmyer, Genevieve M. (See Rightmyer, Homer W., assignor.)						
Rightmyer, Homer W., Ulysses, N. Y. Shaping attachment for stone-planers.....	530,903	Dec. 11	1433	340	69	1491
Rightmyer, Homer W., assignor to G. M. Rightmyer, Tanghannock Falls, N. Y. Guide-clamp for stone-sawing machines.....	530,242	Dec. 4	234	72	69	1269
Rightmyer, William T., Meriden, Conn. Penholder.....	530,603	Dec. 11	947	232	69	1404
Riker, Andrew L., New York, N. Y. Electrical converter.....	515,020	Feb. 20	1716	431	66	1209
Riker, Andrew L., New York, N. Y. Dynamo-electric machine or motor.....	518,768	Apr. 24	2313	{ 514 515 }	67	467
Riker, Andrew L., New York, N. Y. Brush-holder for dynamo-electric machines or motors.	520,169	May 22	2167	527	67	982
Riker, Andrew L., New York, N. Y. Means for mounting and driving dynamo-electric machines.....	525,118	Aug. 28	1907	488	68	1070
Riker, Mary, Yonkers, N. Y. Binder attachment for sewing-machines.....	514,606	Feb. 13	1059	265	66	1070
Riley, Alberta, assignor of one-half to W. and L. W. Jordan, Boston, Mass. Hinge.....	529,312	Nov. 13	1420	341	69	925
Riley, Frank. (See Taylor and Riley.)						
Riley, George, and H. H. York, Fayetteville, Ark.; said Riley assignor to said York. Combined wagon-body and weighing-scale.....	516,659	Mar. 20	1544	367	66	1773
Riley, Henry V. (See Selden and Riley.)						
Riley, Henry V., and C. Selden, Baltimore, Md. Electrical railway-signal.....	515,366	Feb. 27	2305	572	66	1330
Riley, James E., Wilmington, assignor of one-half to J. B. Alexander, Los Angeles, Cal. Apparatus for steaming and cleaning grain.....	516,114	Mar. 6	607	142	66	1566
Riley, James H., assignor to Curtis & Curtis, Bridgeport, Conn. Device for holding nipples during threading.....	513,147	Jan. 23	2365	571	66	544
Riley, John A. (See McIntyre, Byron F., assignor.)						
Riley, John E., et al. (See Traphagen, George W., assignor.)						
Riley, Joseph. (See Lawson, William, assignor.)						
Riley, Michael, London, Ohio. Foot-guard for railway-frogs.....	530,658	Dec. 11	1046	255	69	1420
Riley, Thomas C., Boston, Mass. Soda-fountain.....	515,456	Feb. 20	1777	448	63	1219
Riley, Thomas C., Boston, Mass. Soda-fountain.....	515,057	Feb. 20	1779	448	66	1219
Riley, Thomas C., Boston, Mass. Soda-fountain.....	519,433	May 8	899	216	67	724
Riley, Thomas C., Boston, Mass. Soda-fountain.....	519,434	May 8	900	217	67	724
Riling, Joseph, assignor to S. B. Rowley, Philadelphia, Pa. Cap and locking device for closing pipes or orifices.....	518,008	Apr. 10	991	248	67	199
Riling, William B., Girard, Kans. Tongue-support.....	512,902	Jan. 16	1985	471	66	403
Rineck, John, Jr. (See Wilt, Edwin F., assignor.)						
Ring, Daniel F., et al. (See Mackey, Frank M., assignor.)						
Ring, James W., Boston, Mass. assignor, by mesne assignments, to Van Wagoner & Williams Hardware Company, Jersey City, N. J. Pneumatic door-check.....	521,182	June 12	764	{ 178 179 }	67	1348
Ring, Williamson M., J. W. Smith, and A. Anness, assignors of one-fourth to A. W. Snyder; said Ring assignor of his remaining interest to L. B. Leonard, Liberty, Ind. Lawn-mower.	513,442	Jan. 23	2829	694	66	633
Ringheim, Knut, Nevada, Iowa. Spark-arrester.....	519,026	May 1	140	34	67	563
Ringness, John J. (See Grimland and Ringness.)						
Ringrose, Edward W., assignor of one-half to D. Bayne and C. E. Baldwin, Baltimore, Md. Machine for moving railway-cars.....	527,374	Oct. 9	1146	281	69	228
Rings, Julius A., New York, N. Y. Curtain-pole ring, &c.....	531,563	Dec. 25	2620	{ 627 628 }	69	1743
Rinman, Gustave O., Cincinnati, Ohio. Apparatus for reducing pipe-joints.....	524,400	Aug. 14	772	188	68	819
Rinn, James J., San Francisco, Cal. Tent-fastening.....	528,391	Oct. 30	2901	703	69	593
Rinn, James J., San Francisco, Cal. Tent.....	528,392	Oct. 30	2904	{ 703 704 }	69	593
Rinn, James J., San Francisco, Cal. Tent.....	528,393	Oct. 30	2907	704	69	594
Rinn, James J., San Francisco, Cal. Tent.....	528,394	Oct. 30	2910	{ 704 705 }	69	594
Riordan, John J., Jr., Baltimore, Md. Hat-fastener.....	520,660	May 29	2978	720	67	1149
Riordan, Joseph A., Harrison, N. J. Combination-tool for carriages.....	519,550	May 8	1114	267	67	762

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Rippey, William G., <i>et al.</i> (See Griesemer, Adam, assignor.)						
Rippen, Herbert A., assignor of one-half to D. H. Bokhof, Freeport, Ill. Spring-hinge.....	527,158	Oct. 9	788	192	69	161
Rippin, Charles, St. Louis, Mo. Mixing-machine	526,541	Sept. 25	2126	{ 509 510 }	68	1580
Rischmuller, George, San Francisco, Cal. Door-operating device	524,769	Aug. 21	1375	{ 334 335 }	68	943
Rischmuller, George, San Francisco, Cal. Door opener and closer	524,810	Aug. 21	1438	352	68	955
Rishel, George P. (See Lake and Rishel.)						
Rishworth, John M., S. Ingham, and J. Vickers, Leeds, England. Hopper of dressing or separating machines for flour or other materials	513,280	Jan. 23	2585	{ 625 626 }	66	588
Rising, G. Frank. (See Brien, James T. and T. R., assignors.)						
Risinger, D. H. (See Lawhon, David W., assignor.)						
Risinger, Frank, East Liverpool, Ohio. Bicycle	524,652	Aug. 14	1174	288	68	694
Risley, David, assignor of one-half to E. Baldwin, Colfax, Wash. Steam-boiler attachment	511,993	Jan. 2	403	94	66	77
Risley, Ward, Henrietta, Tex. Apparatus for burning garbage	517,301	Mar. 27	2631	{ 617 618 }	66	1995
Rison, Mastin L., Paris, Tenn. Gate	514,626	Feb. 13	1087	271	66	1076
Ritchey, James, Evansville, Ind. Table-leg fastening	512,992	Jan. 16	2134	507	66	429
Ritchey, Olivia M. (See Depp, Hezekiah E., assignor.)						
Ritchie, Matthew L., assignor to himself and Browne & Magown, New York, N. Y. Apparatus for sawing stone	525,283	Aug. 28	2269	552	68	1121
Ritchie, Walter S. (See McHenry, James W., assignor.)						
Rites, Francis M., Pittsburg, Pa. Governor	527,720	Oct. 16	1712	412	69	346
Ritscher, Adam, Taylorville, Ill. Drive-chain	514,774	Feb. 13	1333	334	66	1122
Rittberger, Max, Potsdam, Germany. Bedstead and couch	513,419	Jan. 23	2791	683	66	627
Ritter, Andrew J., Rahway, N. J. Envelope	519,093	May 1	264	62	67	586
Ritter, George B., New York, N. Y. Cover for jars, &c	513,731	Jan. 30	3354	827	66	764
Ritter, Gustavus A., New York, N. Y. Portable perfume-receptacle	515,169	Feb. 20	1955	428	66	1252
Ritter, J. P. V., <i>et al.</i> (See Fryer, Robert M., assignor.)						
Ritter, Wilhelm, Cologne, Germany. Street-lamp	526,870	Oct. 2	334	82	69	63
Ritter, William R. (See Keith, Ethan B., assignor.)						
Ritz, Augustus N. (See Thomas, Lincoln N., assignor.)						
Ritz, Ira A., Newton, Mass. Adjustable door-fender	515,792	Mar. 6	105	25	66	1473
Ritzler, John A. (See Miller, Alvin C., assignor.)						
Ritzmann, William, Chicago, Ill. Burglar-alarm	516,771	Mar. 20	1728	406	66	1805
Riza, Mike H., Centre Mill, Tex. Pipe-wrench	529,196	Nov. 13	1209	292	69	885
Roach, John H. (See Haygood and Roach.)						
Roadhouse, Levi, assignor to A. Ellwood, De Kalb, Ill. Wire-stretcher	524,352	Aug. 14	679	165	68	801
Roake, Stephen A., Peekskill, and F. G. Smith, Williamsbridge, N. Y. Railway-tie	515,409	Feb. 27	2374	589	66	1343
Roake, Stephen A., Peekskill, and F. G. Smith, Williamsbridge, N. Y. Railway-rail	518,679	Apr. 24	2151	538	67	439
Roark, Calvin M., assignor of one-half to A. J. McCuiston, Alto, Tex. Churn	523,030	Oct. 23	2280	550	69	465
Roat, Lewis, Milton, Pa. Fertilizer-distributor	525,922	Sept. 11	1053	239	68	1355
Robb, Thomas J., <i>et al.</i> (See Robinson, William S., assignor.)						
Robb, Willem D., Gorinchem, Netherlands. Waterproof roof-covering and the manufacture thereof	512,520	Jan. 9	1324	320	66	262
Robbins, Charles E., Memphis, Tenn. Filtering-ventilator for cars	514,277	Feb. 6	518	127	66	951
Robbins, Charles H., Owosso, assignor of one-half to S. Dean, Ann Arbor, Mich. Gas-burner	528,446	Oct. 30	2999	725	69	610
Robbins, Franklin S., Allentown, Pa. Nut-lock	523,237	Oct. 30	2646	638	69	547
Robbins, John A., <i>et al.</i> (See Salzman, Christian A., assignor.)						
Robbins & Myers Co. (See McGilvray, Charles F., assignor.)						
Robbins, Richard B., Adrian, Mich. Corn or cane harvester	515,483	Feb. 27	2490	{ 616 617 }	66	1365
Robbins, Richard B., Adrian, Mich. Fence-post	525,119	Aug. 28	1998	488	68	1071
Robbins, Samuel F., Langhorne, Pa. Holdback for vehicles	524,095	Aug. 7	211	49	68	700
Robbins, William O., New York, N. Y. Apparatus for-extracting oil	523,732	July 31	2715	672	68	567
Röber, Bernhard, Dresden, Germany. Steam-boiler furnace	514,197	Feb. 13	874	{ 222 223 }	66	1035
Robert, Charles A., assignor of one-third to M. D. Cremer, Portland, Oreg. Sash-lock	528,892	Nov. 6	672	162	69	769
Roberts, Albert E., Norwalk, Ohio. Metal railway-tie	517,302	Mar. 27	2633	{ 618 619 }	66	1996
Roberts, Andrew J., Boston, Mass. Street-sweeper	520,080	May 22	1995	488	67	952
Roberts, Benjamin, Jacksonville, Fla. Elevated railway	518,925	Apr. 24	2573	{ 636 637 }	67	515
Roberts, Charles E. (See Farnsworth and Roberts.)						
Roberts, Charles E., Oak Park, Ill. Machine for finishing bolt-heads and nuts	521,002	June 5	448	{ 106 107 }	67	1277
Roberts, Charles E., Oak Park, Ill. Rod-support for screw or other machines	526,790	Oct. 2	201	47	69	38
Roberts, Charles H. (See Smethurst, Aaron, assignor.)						
Roberts, Charles H., Hartwell, Ohio. Electric locomotive for elevated tracks	511,862	Jan. 2	184	45, 46	66	39
Roberts, Charles J., and J. W. Owen, Buford, Ga. Animal-trap	520,804	June 5	80	18	67	1212
Roberts, Charles R., Addison, Pa. Current-collector for dynamos	515,613	Feb. 27	2698	670	66	1406
Roberts, Charles W. (See Beckett and Roberts.)						
Roberts, Charles W., North Bennington, Vt. Method of and apparatus for producing wood-pulp	527,812	Oct. 23	1867	449	69	391
Roberts, Cyrus, deceased; J. B. and G. A. Roberts and C. B. Tucker, Three Rivers, Mich., and S. H. Roberts, Denver, Colo., executors. Hand-car	514,729	Feb. 13	1266	316	66	1109
Roberts, Cyrus, deceased; J. B. and G. A. Roberts, C. B. Tucker, Three Rivers, Mich., and S. H. Roberts, Denver, Colo., executors. Car-wheel	528,278	Oct. 30	2715	654	69	560
Roberts, David H., <i>et al.</i> (See Fox and Yates, assignors.)						
Roberts, Edward M., J. F. Blackwood, and J. P. Cahill, Charleston, S. C. Locomotive-diaphragm	514,337	Feb. 6	619	158	66	969
Roberts, F. W. (See Hill, Harry W., assignor.)						
Roberts, Frank. (See Jackson and Roberts.)						
Roberts, Frank C., Philadelphia, Pa. Blast-furnace charging apparatus	519,094	May 1	264	63	67	586
Roberts, Frank E., assignor to Yost Manufacturing Company, Toledo, Ohio. Bicycle	516,115	Mar. 6	609	142	66	1566
Roberts, Frank K., and G. M. Burroughs, Santa Cruz, assignors to Seller Bros. & Co., San Francisco, Cal. Fender for metallic tubs or boilers	517,827	Apr. 3	678	169	67	132
Roberts, George A., <i>et al.</i> , executors. (See Roberts, Cyrus.)						
Roberts, George A., Three Rivers, Mich. Dump-car	528,279	Oct. 30	2716	655	69	560
Roberts, George W. (See Rowley, Frank, assignor.)						
Roberts, Hara, Fort Wayne, Ind. Railway-rail joint	521,866	June 26	1969	476	67	1606
Roberts, Henry P., assignor to W. H. Quirk and L. H. Green, Boston, Mass. Self-sealing bottle.....	525,364	Sept. 4	77	21	68	1165

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Roberts, Hiram F. and R. H., Rochester, N. Y. Oil-can pump	512,220	Jan. 2	814	197	66	154
Roberts, Isaiah L., Brooklyn, N. Y. Electrolytic diaphragm	522,614	July 10	763	192	68	164
Roberts, Isaiah L., Brooklyn, N. Y. Electrolytic apparatus	522,615	July 10	764	192	68	164
Roberts, Isaiah L., Brooklyn, N. Y. Electrolytic decomposition of salts	522,616	July 10	765	193	68	164
Roberts, Isaiah L., Brooklyn, N. Y. Apparatus for manufacturing caustic alkali	522,617	July 10	767	193	68	164
Roberts, Isaiah L., Brooklyn, N. Y. Apparatus for electrolysis of salts	522,618	July 10	768	193	68	165
Roberts, Isaiah L., Brooklyn, N. Y. Electrolytic-decomposition tank	522,619	July 10	770	193	68	165
Roberts, James B., <i>et al.</i> , executors. (See Roberts, Cyrus.)						
Roberts, James H., Brooklyn, N. Y. Electric appliance for dumb-waiters	517,169	Mar. 27	2416	568 569	66	1953
Roberts, John A., <i>et al.</i> (See Markley, John A., assignor.)						
Roberts, John R., Homer City, Pa. Incubator	515,554	Feb. 27	2605	645	66	1387
Roberts, John W., assignor to Roberts Tinware Company, Cleveland, Ohio. Can-cripping machine	521,893	June 26	2014	486	67	1616
Roberts, John W., assignor to Roberts Tinware Company, Cleveland, Ohio. Can-seaming machine	521,894	June 26	2018	487 488	67	1616
Roberts, John W., assignor to Roberts Tinware Company, Cleveland, Ohio. Can-seaming machine	521,895	June 26	2025	488 489	67	1618
Roberts, John W., assignor to Roberts Tinware Company, Cleveland, Ohio. Can-soldering machine	521,896	June 26	2031	489 490	67	1619
Roberts, Llewelyn. (See Bagley and Roberts.)						
Roberts, Luke, Bradford, England. Perambulator	513,248	Jan. 23	2534	611	66	577
Roberts, Luke, Bradford, England. Brake for railway-cars	529,082	Nov. 13	1012	244	69	849
Roberts, Nate H., assignor of one-half to E. C. Atkins, Indianapolis, Ind. Draft-equalizer	524,790	Aug. 21	1404	343	68	949
Roberts, Nate H., assignor to E. C. Atkins, Indianapolis, Ind. Rotary plow	530,964	Dec. 18	1543	366	69	1526
Roberts, Orville T., assignor of one-half to W. E. Roberts, Allentown, Pa. Eaves-trough iron	516,576	Mar. 13	1395	332	66	1728
Roberts, Raphael H. (See Roberts, Hiram F. and R. H.)						
Roberts, Richard W., Chicago, Ill. Type-writing machine	529,410	Nov. 20	1601	380	69	978
Roberts, Robert M., Anderson, Ind. Glass-carrying truck	524,909	Aug. 21	1600	391	68	983
Roberts, Samuel H., <i>et al.</i> , executors. (See Roberts, Cyrus.)						
Roberts, Susie A. (See Forsberg, Carl A., assignor.)						
Roberts, Throp & Company. (See Donovan, James, assignor.)						
Roberts Tinware Company. (See Roberts, John W., assignor.)						
Roberts, Walter E. (See Roberts, Orville T., assignor.)						
Roberts, William H. (See Washington and Roberts.)						
Roberts, William J. (See Halaron, William, assignor.)						
Roberts, William J., <i>et al.</i> (See Paul, James and J. T., assignors.)						
Roberts, William W., North Bend, Nebr. Collapsible decoy	529,463	Nov. 20	1706	407	69	996
Robertshaw, Frederick W., Pittsburg, Pa. Lubricator	526,503	Sept. 25	2070	493	68	1570
Robertshaw, Frederick W., Pittsburg, and J. M. Cooper, Bellevue, Pa. Gas-stove	526,791	Oct. 2	202	48	69	38
Robertson, Charles R., <i>et al.</i> (See Dubelman, John, assignor.)						
Robertson, George W., London, England. Station-indicator	523,919	July 31	3042	757 758 759 760 761	68	629
Robertson, James, Manchester, England. Method of and apparatus for forming metal articles	524,504	Aug. 14	927	229 230 231	68	848
Robertson, James, Manchester, England. Apparatus for forming metal articles	524,505	Aug. 14	935	231	68	849
Robertson, James, Manchester, England. Apparatus for the manufacture of metal tubes, rods, &c	524,506	Aug. 14	937	231	68	849
Robertson, James, Manchester, England. Apparatus for the manufacture of metal tubes, rods, &c	524,507	Aug. 14	938	232	68	849
Robertson, James, Manchester, England. Forming metal articles	524,508	Aug. 14	939	232	68	849
Robertson, James, Manchester, England. Apparatus for forming metal articles	524,509	Aug. 14	941	232	68	850
Robertson, Joseph. (See Cooper, Harry, assignor.)						
Robertson, Lucius, Cincinnati, Ohio. Mechanical dentistry	514,201	Feb. 6	387	92	66	926
Robertson, Thomas, Toronto, Canada. Confectionery-machine	524,401	Aug. 14	772	189	68	819
Robertson, William A., Cedar Rapids, Iowa. Lathe for relieving taps	521,510	June 19	1365	318 319	67	1477
Robeson, Millard F., Elmira, N. Y. Ear for buckets, &c	519,874	May 15	1651	402	67	874
Robins, Henry S., Philadelphia, Pa. Safety-fender for tram, electric, or cable cars	525,233	Aug. 28	2188	534	68	1104
Robins, William B., Cincinnati, Ohio. Lamp	514,036	Feb. 6	97	25	66	872
Robinson, A. J., <i>et al.</i> (See Loughmiller, Benjamin F., assignor.)						
Robinson, Aaron B., Marysville, Ohio. Machine for cutting and shocking standing corn	518,551	Apr. 17	1927	476 477	67	384
Robinson, Aaron J., Fremont, N. H. Sawing-machine	529,839	Nov. 27	2337	555 556	69	1121
Robinson, Andrew F., Cambridge, and A. B. Dodge, Allston, Mass. Folding bed	520,244	May 22	2295	557	67	1006
Robinson, Andrew J. (See Pinkham, Frederick S., assignor.)						
Robinson, Andrew J., Boston, Mass. Detachable umbrella-cover	512,903	Jan. 16	1987	471	66	403
Robinson, Andrew J., Boston, Mass. Detachable umbrella-cover	512,904	Jan. 16	1988	471	66	403
Robinson, Andrew J., Boston, Mass. Detachable umbrella-cover	512,905	Jan. 16	1990	472	66	404
Robinson, Arthur W. (See Hayward and Robinson.)						
Robinson, Arthur W., Baltimore, Md. Lamp trimmer and regulator	514,627	Feb. 13	1088	271	66	1076
Robinson, Arthur W., Milwaukee, Wis. Dredge-bucket	519,551	May 8	1115	267	67	762
Robinson, Arthur W., Milwaukee, Wis. Journal-box for dredging or like machinery	523,407	July 24	2134	536	68	447
Robinson, Arthur W., Milwaukee, Wis. Bearing for amalgamator-screens	523,408	July 24	2135	536	68	447
Robinson, Arthur W., Milwaukee, Wis. Tailings-discharge apparatus for amalgamating-machines	523,409	July 24	2136	536	68	447
Robinson, Arthur W., Milwaukee, Wis. Water-jet for amalgamating-machines	523,410	July 24	2137	536	68	447
Robinson, Arthur W., Milwaukee, Wis. Amalgam-trough and water-supply pipe for amalgamating-machines	523,411	July 24	2139	537	68	448
Robinson, Arthur W., Milwaukee, Wis. Combined excavating and amalgamating machine	526,056	Sept. 18	1274	294 295	68	1408
Robinson, Charles H., St. Paul, Minn., assignor to A. S. Browne, Washington, D. C. Steam heating apparatus	521,440	June 12	1224	290	67	1434
Robinson, Charles M. (See Robinson, James T. and C. M.)						
Robinson, Clark, Hartley, Iowa. Tire-heater	527,541	Oct. 16	1423	346	69	293
Robinson & Co., John T. (See Robinson and Chamberlain, assignors.)						
Robinson & Company. (See Robinson, Francis W., assignor.)						
Robinson, Cyrus, Lynn, assignor to General Electric Company, Boston, Mass. Electrically-operating pump	516,840	Mar. 20	1837	434	66	1827

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Robinson, Dighton A., Minneapolis, Minn. Swivel-support for grain-spouts	512,394	Jan. 9	1103	267	66	220
Robinson, Dighton A., Minneapolis, Minn. Swivel-spout for elevators	524,984	Aug. 21	1740	425	68	1009
Robinson, Edward, London, England. Apparatus for drying tea, sugar, or other substances	515,446	Feb. 27	2434	603	66	1354
Robinson, Edward W., Deering, Me. Bottle-stopper extractor	528,031	Oct. 23	2282	550	69	466
Robinson, Eugene M., Chicago, Ill. Railway-switch stand	525,159	Aug. 28	2067	{ 504 505 }	68	1083
Robinson, Eugene M., assignor of one-half to Paige Iron Works, Chicago, Ill. Railway-track jack	512,750	Jan. 16	1703	407	66	349
Robinson, Francis W., assignor to Robinson & Company, Richmond, Ind. Thrashing-machine	524,954	Aug. 21	1678	411	68	996
Robinson, Frank, Gloucester, Mass. Sheet-shackle	517,068	Mar. 27	2248	532	66	1920
Robinson, Frederick C., East Fremont, Mich. Multiple gearing	531,220	Dec. 18	2013	477	69	1611
Robinson, George W., Albany, N. Y. Stencil	529,464	Nov. 20	1707	407	69	996
Robinson, Hanson, Baltimore, Md. Bottle-seal	518,277	Apr. 17	1451	353	67	298
Robinson, Helen A., Clymer, N. Y. Preserving-jar	520,338	May 22	2455	595	67	1037
Robinson, Henry, <i>et al.</i> (See Demmick, George W., assignor.)						
Robinson, Jay A., Denver, Colo. Tobacco or cigar moistener	527,291	Oct. 9	1010	245	69	202
Robinson, James E. (See Hopper, William J., assignor.)						
Robinson, James J. (See Moore, Francis A., assignor.)						
Robinson, James T. and C. M., Altoona, Pa. Car-truck	512,749	Jan. 16	1698	{ 406 407 }	66	348
Robinson, John, assignor of one-half to W. J. Chaninell, Philadelphia, Pa. Manufacture of electric conductors	529,411	Nov. 20	1602	381	69	578
Robinson, John, assignor of one-half to W. J. Chaninell, Philadelphia, Pa. Insulated electric conductor	529,412	Nov. 20	1605	381	69	979
Robinson, John, assignor of one-half to W. J. Chaninell, Philadelphia, Pa. Manufacture of electric conductors	529,413	Nov. 20	1606	382	69	979
Robinson, John C., Brooklyn, N. Y. Check-punch	528,280	Oct. 30	2717	655	69	560
Robinson, John J., Philadelphia, Pa. Veterinary tooth-cutter	522,855	July 10	1163	290	68	236
Robinson, John T., and H. J. Chamberlain, assignors to J. T. Robinson & Co., Hyde Park, Mass. Machine for forming box-blanks	516,709	Mar. 20	1623	387	66	1787
Robinson, Joseph, London, England. Door spring and check	513,621	Jan. 30	3162	776	66	730
Robinson, Lewis T. (See Knowles and Robinson.)						
Robinson, Lewis T., Middletown, Conn., assignor to Schuyler Electric Company, of Connecticut. Means for measuring electric currents	516,839	Mar. 20	1835	434	66	1827
Robinson, Mark H., assignor to Willans & Robinson, Limited, Thames Ditton, England. Expansion-gear for engines	521,573	June 19	1469	{ 343 344 }	67	1495
Robinson, Miner, Newton, Mass. Insulating-tube	517,591	Apr. 3	287	66	67	57
Robinson, Robert, Romiley, England. Apparatus for stretching felt hat-bodies	528,806	Nov. 6	507	122	69	738
Robinson, Samuel, Monmouth, Ill. Automatic fire-kindler	512,221	Jan. 2	815	{ 197 198 }	66	154
Robinson, Sannell, Monmouth, Ill. Hub-attaching device	515,842	Mar. 6	177	43	66	1486
Robinson, Thomas C., Jr., Ipawa, Ill. Driving-gear	517,303	Mar. 27	2633	619	66	1996
Robinson, William, Boston, Mass. Radial car-truck	524,402	Aug. 14	775	{ 189 190 }	68	820
Robinson, William, Boston, Mass. Center bearing for car-trucks	526,844	Oct. 2	285	68, 69	69	51
Robinson, William, and F. D. Fergusson, Makotuku, New Zealand. Hand-truck	513,201	Jan. 23	2147	591	66	560
Robinson, William F. S., Somerville, Mass. Street-car	525,284	Aug. 28	2270	553	68	1122
Robinson, William F. S., Somerville, Mass. Car-fender	525,285	Aug. 28	2271	553	68	1122
Robinson, William H., New York, N. Y. Car-coupling	514,964	Feb. 20	1634	409	66	1194
Robinson, William S., assignor of two-thirds to T. J. Robb and C. A. Haeseley, Fancy Farm, Ky. Ball-bearing for wheel-boxes	531,564	Dec. 25	2621	628	69	1743
Robinson, William S., assignor of thirteen-sixteenths to F. X. Pierceall, W. O. Ballard, C. A. Haeseley, J. M. Willett, T. J. Robb, and W. B. Willett, Fancy Farm, Ky. Transom-lifter	527,347	Oct. 9	1096	267	69	218
Robischung, Henry B., Kalamazoo, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Finger-guard clamp for brake-beams	527,159	Oct. 9	789	193	69	161
Robischung, Henry B., Kalamazoo, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam and reinforcing-clamp therefor	528,238	Oct. 30	2647	638	69	547
Robison, Alasco C. (See Robison, Frank L., assignor.)						
Robison, Charles W., Peoria, Ill. Steam-engine	517,015	Mar. 20	2122	{ 501 502 503 }	66	1881
Robison, Frank L., Albion, assignor of one-half to A. C. Robison, Canandaigua, N. Y. Baling-press	529,083	Nov. 13	1014	244	69	850
Roblin, John S., West Bay City, Mich. Apparatus for lighting buildings	527,005	Oct. 2	545	134	69	103
Roche, Charles W., Halifax, Canada. Brush	527,456	Oct. 16	1291	316	69	270
Roche, Edward J., Milford, Mass. Bone-cutter	516,510	Mar. 13	1286	305	66	1707
Roche, Edward J., Milford, Mass. Machine for comminuting bone and vegetable matter	531,426	Dec. 25	2377	{ 568 569 }	69	1696
Roche, Edward J., Milford, Mass. Means for controlling operative connection between feed-screws and followers	531,427	Dec. 25	2379	569	69	1696
Roche, Edward P., San Francisco, Cal. Buttonhole repair-patch	522,768	July 10	1041	257	68	212
Roche, James, assignor to Eagle Lock Company, Terryville, Conn. Master-key lock	520,121	May 22	2063	504	67	965
Roche, James, assignor to Eagle Lock Company, Terryville, Conn. Lock	524,148	Aug. 7	311	73	68	719
Roche, James, assignor to Eagle Lock Company, Terryville, Conn. Master-key padlock	525,562	Sept. 4	414	100	68	1228
Roche, Thomas C., Brooklyn, assignor to E. & H. T. Anthony & Company, New York, N. Y. Photographic plate	519,645	May 8	1281	.....	67	791
Roche, Thomas C., Brooklyn, assignor to E. & H. T. Anthony & Company, New York, N. Y. Photographic plate	519,646	May 8	1282	.....	67	791
Rochester Bunting Apparatus Company. (See Wolters, Henry J., assignor.)						
Rochester, George. (See Rochester and McArthur, assignors.)						
Rochester Lasting Machine Company. (See Combs, Edgar S., assignor.)						
Rochester Machine Screw Company. (See Brown and Smith, assignors.)						
Rochester, William Y., Ottawa, and J. McArthur; said McArthur assignor to G. Rochester, Nepean, Canada. Dynamite and making same	517,396	Mar. 27	2820	.....	66	2033
Rock Island Plow Company. (See Jewett, Charles C., assignor.)						
Rockford Manufacturing Company. (See Jones, James H., assignor.)						
Rockford Silver Plate Company. (See Kelley, George B., assignor.)						
Rockoff, August, New York, N. Y. Electrical cut-out	525,563	Sept. 4	415	100	68	1228
Rockoff, August, New York, N. Y. Handpiece for portable electric lamps	525,564	Sept. 4	417	100	68	1228
Rockwell, Edward D., assignor to New Departure Bell Company, Bristol, Conn. Bell	517,395	Mar. 27	2819	659	66	2033
Rockwell, Edward D., assignor to New Departure Bell Company, Bristol, Conn. Brake for bicycle-wheels	524,839	Aug. 21	1499	367	68	965

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Rockwell, Edward D., assignor to New Departure Bell Company, Bristol, Conn. Clamp for bicycle-bells.	524,840	Aug. 21	1500	367	68	965
Rockwell, Frederick C. (See Stevens, John C., assignor.)						
Rockwell, Frederick C., Hartford, Conn. Electric lamp.	517,069	Mar. 27	2248	532	66	1920
Rockwell, Gertrude P., Brooklyn, N. Y. Baking-pan.	511,801	Jan. 2	86	22	66	19
Rockwell, Herbert O., <i>et al.</i> (See Knapp, Charles, assignor.)						
Rockwell, Lucius A., and W. A. Hull; said Rockwell assignor to Fowler & Rockwell, New York, N. Y. Cracker-cutter.	519,293	May 1	635	155	67	660
Rockwood, George I., Worcester, Mass. Valve mechanism for engines.	513,999	Aug. 7	54	12, 13	68	671
Rodenbaugh, Charles, Allegheny, Pa. Double-acting pump.	523,240	July 17	1845	465	68	378
Roder, Adolphe, Philadelphia, Pa. Air-tight package.	528,260	Oct. 30	2681	647	69	555
Rodes, Tyree T., Paris, Mo. Hand-cultivator.	528,818	Oct. 2	242	59	69	46
Rodgers, Catharine E., adm. instratrix. (See Rodgers, George W.)						
Rodgers, George W., deceased; C. E. Rodgers, administratrix, assignor of two-thirds to I. Thomas, Bellefonte, Pa., and A. S. Valentine, Atlantic City, N. J. Car-heater.	519,644	May 8	1279	307	67	791
Rodgers, Howard S., Hartford, Conn. Dynamo-electric machine or motor.	512,843	Jan. 16	1879	444	66	382
Rodig, Adolf, Saband, Germany. Making plates, &c., of combined metals.	530,719	Dec. 11	1144	278	69	1437
Rodin, Charles F., assignor of one-half to A. Merle and A. Rudgear, San Francisco, Cal. Guiding device for discharge nozzles.	520,222	May 22	2260	550	67	999
Rodman, Charles W., Queens, N. Y. Tenpin-ball.	520,898	June 5	265	64	67	1246
Rödmann, Carl. (See Wettstein and Rödmann.)						
Rodriguez, Joseph, New York, N. Y. Separable button.	520,122	May 22	2065	504	67	965
Rodwell, George J. B., assignor to Rodwell Manufacturing Company, Buffalo, N. Y. Sign-letter.	513,281	Jan. 23	2587	626	66	588
Rodwell, George J. B., assignor to Rodwell Manufacturing Company, Buffalo, N. Y. Sign-letter.	513,282	Jan. 23	2587	626	66	588
Rodwell Manufacturing Company. (See Rodwell, George J. B., assignor.)						
Rodwell, Thomas, Baraboo, Wis. Tire-tightener.	531,064	Dec. 13	1715	407	69	1558
Roe, Arthur R. (See Merritt and Roe.)						
Roe, George H., <i>et al.</i> (See Van Emon, Burton C., assignor.)						
Roe, Isaac F. (See Solean, Edward R., assignor.)						
Roe, James P., Pottstown, Pa. Yoke for manhole-covers.	521,732	June 19	1737	413	67	1546
Roe, James P., Pottstown, Pa. Manhole-cover.	521,733	June 19	1732	413	67	1546
Roe, John P., assignor to Ropeways Syndicate, Limited, London, England. Apparatus for transporting loads by traveling cables.	530,720	Dec. 11	1146	278	69	1438
Roe, John P., assignor to Ropeways Syndicate, Limited, London, England. Running and carrying cable.	530,902	Dec. 11	1431	340	69	1491
Roedel, Adolph. (See Ward, William M., assignor.)						
Roedel, John, Jr., Buffalo, N. Y. Sunshade for hats, &c.	514,278	Feb. 6	519	127	66	951
Roehl, Charles E., St. Joseph, Mo. Induction electric railway.	517,531	Apr. 3	185	42	67	38
Roehm, Frank A., <i>et al.</i> (See Roehm, William H., assignor.)						
Roehm, William H., Portage, assignor of two-thirds to F. A. Roehm, Durand, and A. H. Tongen, Rio, Wis. Twine-reel.	520,189	May 22	2203	536	67	989
Roemer, Elizabeth. (See Roemer, William, assignor.)						
Roemer, John H. (See Jacobs, Keil, and Roemer.)						
Roemer, William, assignor to E. Roemer, Newark, N. J. Bag-lock.	524,811	Aug. 21	1440	352	68	955
Roennan, Frederick C. J., New York, N. Y. Milk-can or analogous receptacle.	526,460	Sept. 27	2012	479	68	1558
Roepfer, Charles W., <i>et al.</i> (See Blaine, George E., assignor.)						
Roese, Oscar, assignor to R. Hoe, T. H. Mead, and C. W. Carpenter, New York, N. Y. Clamping device for lithographic stones.	529,840	Nov. 27	2330	577	69	1122
Roethe, Henry E. (See Powers, Lyman A., assignor.)						
Roever, Julius, Brooklyn, N. Y. Coin-controlled game.	518,726	Apr. 24	2245	559	67	454
Roger, John, Denver, Colo. Filter.	517,240	Mar. 27	2526	593	66	1975
Roger, John, Denver, Colo. Roasting-furnace.	523,650	July 24	2551	639	68	523
Roger, John, assignor of one-half to T. B. Stearns, Denver, Colo. Automatic feed mechanism.	522,935	July 10	1302	324	68	262
Rogers, Andrew W., assignor to S. W. Winslow, trustee, Beverly, Mass. Abrasive cover for buffing-machines.	523,594	July 24	2456	616	68	505
Rogers, Arthur, assignor to Watt Mining Car Wheel Company and T. & A. Rogers, Barnesville, Ohio. Sled.	512,123	Jan. 2	655	157	66	126
Rogers & Bros., C. (See Lombard, Edward C., assignor.)						
Rogers, Charles D., Providence, R. I. Machine for making screw-blanks.	520,081	May 22	1997	488	67	953
Rogers, Charles D., Providence, R. I. Tack-driving implement.	529,958	Nov. 27	2535	611	69	1157
Rogers, Charles S., Atlanta, Ga. Churn-dasher.	525,519	Oct. 30	3121	756	69	633
Rogers, Charles T., Mansfield, Mass. Bicycle-saddle.	531,333	Dec. 25	2218	531	69	1664
Rogers, David, and T. Jones, Pittsburg, Pa. Gas stove or heater.	512,222	Jan. 2	818	198	66	155
Rogers, E. S. (See Scates, George R., assignor.)						
Rogers, Elroy L., Wakefield, Mass. Catcher's glove.	528,343	Oct. 30	2820	681	69	578
Rogers, Enos O. (See Coons and Rogers.)						
Rogers, Ethan, Ballston Spa, N. Y. Machine for making ax-polls.	531,221	Dec. 18	2014	478	69	1612
Rogers, George A., assignor of one-fourth to W. J. Helwig, Allegheny, Pa. Glazier's tool.	529,957	Nov. 27	2534	611	69	1157
Rogers, Henry C., Holstein, Iowa. Hay-rack.	527,292	Oct. 9	1011	245	69	202
Rogers, Homer, Boston, assignor to S. H. Howe, trustee, Marlborough, Mass. Heel.	513,622	Jan. 30	3164	777	66	730
Rogers, James H., Bladensburg, Md. Printing-telegraph instrument.	524,118	Aug. 7	251	58, 59	68	708
Rogers, James H., Washington, D. C., assignor of one-half to C. V. Graves, Natural Bridge, N. Y. Producing illuminated letters.	512,395	Jan. 9	1104	267	66	221
Rogers, James H., and W. Fracker, Washington, D. C. Electrically-propelled vehicle.	512,327	Jan. 9	983	241	66	198
Rogers, James W., London, England. Heel.	517,965	Apr. 10	911	228	67	187
Rogers, John A., and D. C. Burns, Hartsell's, Ala. Gin-saw-sharpening machine.	525,515	Sept. 4	324	81	68	1212
Rogers, John H., Fairland, Mich. Wire spacer and twister.	529,807	Nov. 27	2271	512	69	1108
Rogers, Merritt L., Exeter, Nebr. Neck-yoke.	511,908	Jan. 2	309	72	66	60
Rogers, Milton N., Minneapolis, Minn. Soaking-boot.	519,047	May 1	176	42	67	570
Rogers, Robert W., San Francisco, Cal. Treating air for medical purposes.	529,684	Nov. 20	2070	495	69	1063
Rogers, Stephen C., <i>et al.</i> (See Brown, Samuel, assignor.)						
Rogers, T. & A., <i>et al.</i> (See Rogers, Arthur, assignor.)						
Rogers, Thomas N., Sault Ste. Marie, Mich. Apparatus for heating and ventilating rooms.	526,792	Oct. 2	203	48	69	38
Rogers, Timothy, Springfield, Ohio, assignor, by mesne assignments, of one-half to Ohio Fence Company, Indianapolis, Ind. Wind-engine.	511,969	Jan. 2	405	94	66	77

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Rogginger, John, assignor to C. N. Brisco and J. F. Muchmore, Chicago, Ill. Bottle-stopper	525,470	Sept. 4	259	63	68	1199
Röhde, Charles A., <i>et al.</i> (See Wheeler, Fred A., assignor.)						
Rohlf, Henry J., Chicago, Ill. Rotary water-meter	522,502	July 10	1091	269	68	222
Rohrbach, Gabriel, Del Rio, Tex. Turn-table	517,304	Mar. 27	2637	619	66	1996
Rohrbach, Gabriel, Del Rio, Tex. Gate-latch	521,045	June 5	525	124	67	1292
Rohrer, M., <i>et al.</i> (See Harrison, William T., assignor.)						
Roletter, George W. (See Kennedy and Roletter.)						
Rolf, Frederick W., Lawrenceburg, Ind. Thill-coupling	531,565	Dec. 25	2624	628	69	1743
Rolfe, Charles A., Chicago, Ill. Police signal-telegraph system	521,183	June 12	766	179	67	1349
Rolfes, Carl, Hoboken, N. J. Sash-fastener	526,262	Sept. 18	1630	363	68	1474
Rolfson, Rolf J., San Francisco, Cal. Game apparatus	524,297	Aug. 7	556	132	68	761
Rolfson, Rolf J., San Francisco, Cal. Dynamometer	531,006	Dec. 18	1621	384 } 385 }	69	1540
Roll, Leonard, Wilkes-Barré, Pa. Car-wheel	513,623	Jan. 30	3165	777	66	730
Rollason, Sarah J., assignor to W. H. Fletcher, London, England. Windmill or wind-motor	529,197	Nov. 13	1210	292	69	885
Rollings, Winfield S., Indianapolis, Ind. Folding or extension table	527,077	Oct. 9	656	159	69	138
Rollins, Daniel G., Bucksport, Me. Spring-bed	515,793	Mar. 6	106	25	66	1474
Rollins, George A., Chicago, Ill. Commutator	513,533	Jan. 30	3016	745	66	703
Rollins, George L., assignor of one-half to Eagle Cotton Gin Company, Bridgewater, Mass. Condenser for cotton-gins	513,732	Jan. 30	3355	827	66	765
Rolph, Benjamin M., Dixon, Ill. Cultivator	531,566	Dec. 25	2625	629	69	1743
Roman, Reinhard I., London, England. Solder for use with aluminium and its alloys	513,654	Jan. 30	3227		66	741
Roman, Reinhard I., London, England. Aluminium alloy	528,181	Oct. 30	2540		69	529
Roman, Samuel, Montreal, Canada. Cigar-package	526,943	Oct. 2	456	112	69	86
Romans, Freeland H. (See Harman and Romans.)						
Romig, Eugen. (See Schraube and Romig.)						
Rondell, Carl, Minneapolis, Minn. Self-acting door	526,461	Sept. 25	2014	479	68	1559
Roney, Alexander B., Pittsburg, Pa., assignor of one-half to H. R. Walker, Chicago, Ill. Driving-gear	514,891	Feb. 13	1523	381	66	1158
Roney, Alexander B., assignor to J. E. Jacobs, Chicago, Ill. Electric-arc lamp	525,743	Sept. 11	735	170	68	1298
Roney, Will, Independence, Iowa. Expandible differential pulley	517,532	Apr. 3	188	43	67	38
Roney, William R., Boston, Mass., and O. A. Stranahan, Chicago, Ill., assignors to Westinghouse, Church, Kerr & Company, East Orange, N. J. Furnace-grate	519,775	May 15	1483	360	67	842
Ronk, Jacob B., Fort Wingate, N. Mex. Ter. Aquatic bicycle	520,899	June 5	266	64	67	1246
Rönne, C. Emil. (See Moore, Jacob J., assignor.)						
Rood, Henry W. (See Campbell, Stewart L., assignor.)						
Rooke, George, Emporia, Kans. Garment-protector	518,859	Apr. 24	2452	608	67	491
Rooke, George, Emporia, Kans. Boat	527,511	Oct. 16	1376	335	69	284
Rooks, Alva N., assignor of one-half to C. H. Neff, Inka, Ill. Buggy-top support	528,032	Oct. 23	2282	550	69	466
Rookwood, James W., Jerico, assignor to J. W. Davis, Jerico Springs, Mo. Hane-tug	516,404	Mar. 13	1100	262	66	1675
Rooney, Henry F., Randolph, Mass. Fender for street-cars	518,926	Apr. 24	2576	637	67	515
Rooney, Henry F., Randolph, assignor of one-half to M. Chisholm, Boston, Mass. Sanding device for cars	524,735	Aug. 21	1316	322	68	932
Rooney, M. F. (See Devers, William J., assignor.)						
Roos, Alfred. (See Krafft and Roos.)						
Roosevelt, James A., Austin, Tex. Car-coupling	520,380	May 22	2520	610	67	1050
Roosevelt, Samuel M. (See Powter, Nathaniel B., assignor.)						
Root, Albert A., Buffalo, N. Y. Advertising device	521,990	June 26	2222	535	67	1652
Root, Arthur, Alexandria, Va. Car-coupling	521,529	June 19	1399	323 } 324 }	67	1482
Root, Benjamin M., York, Pa. Feed for fertilizer-distributors	512,906	Jan. 16	1991	472	66	404
Root, Howard C., Brooklyn, N. Y. Automatic toll-box for telephone pay-stations	515,170	Feb. 20	1957	488 } 489 }	66	1253
Root, Howard C., Brooklyn, N. Y. Automatic toll-box for telephone pay-stations	525,623	Sept. 4	503	122	68	1245
Root, Isaac F., and W. O. Silvey, Middleport, Ohio. Funnel	531,388	Dec. 25	2317	553	69	1684
Root, Nevada L. (See McCamey and Root, assignors.)						
Root, Sebra H. (See McCamey and Root.)						
Roots Co., P. H. & F. M. (See Wainwright, William W., assignor.)						
Roper, Charles F., assignor to Hopedale Machine Screw Company, Hopedale, Mass. Machine for grinding and polishing	516,168	Mar. 6	697	164	66	1583
Roper, Sylvester H., Boston, Mass. Fire-escape	514,094	Feb. 6	139	43	66	890
Roper, Sylvester H., Boston, Mass. Fire-escape	516,116	Mar. 6	610	143	66	1566
Roper, Sylvester H., Boston, Mass. Fire-escape	516,117	Mar. 6	611	143	66	1567
Roper, Sylvester H., Boston, Mass. Fire-escape	516,118	Mar. 6	613	143	66	1567
Roper, Sylvester H., Boston, Mass. Fire-escape	531,567	Dec. 25	2628	629	69	1744
Ropeways Syndicate. (See Roe, John P., assignor.)						
Roraback, John Z. (See Edgar, Joseph M., assignor.)						
Rorer, Francis C. W., Philadelphia, Pa. Axle-box for wheels	524,791	Aug. 21	1406	343	68	949
Rosbrough, William. (See Green, Alfred, assignor.)						
Roscher, C. A. (See Thomas, Carl H., assignor.)						
Rose, Addison B., and J. H. Kelley, Palmyra, Mo. Tongue-support	520,339	May 22	2456	596	67	1037
Rose, Charles O., <i>et al.</i> (See Lake and Rishel, assignors.)						
Rose, James C., Aspen, Colo. Car-coupling	516,943	Mar. 20	2009	474	66	1859
Rose, Rufus E., Kissimmee, Fla. Apparatus for treating phosphate rock	519,393	Mar. 8	839	203	67	713
Rose, William E., assignor of one-half to S. C. Hicks, New Carlisle, Ind. Sign-printer	518,118	Apr. 10	1171	293	67	230
Rosenau, Nathaniel S. (See Mislé, David, assignor.)						
Rosenberg, Joseph A., and J. Hurst, Syracuse, N. Y. Ejector and mainspring mechanism	519,552	May 8	1116	268	67	762
Rosenberg, Leopold. (See Hurst and Rosenberg.)						
Rosenberger, Simon. (See Jackson and Brann, assignors.)						
Rosenblatt, Rudolph A., New York, N. Y. Disinfecting apparatus	520,540	May 29	2782	673	67	1113
Rosenfeld, Jesse, and S. W. Mackey, Baltimore, Md. Bottle-stopper	525,286	Aug. 28	2272	553	68	1122
Rosenfeld, Louis, New York, N. Y. Hoisting apparatus	526,263	Sept. 18	1631	383	68	1474
Rosenfeld, Louis, assignor to Rosenthal Brothers, New York, N. Y. Cigar-box	519,204	May 1	475	115	67	629
Rosenfeld, Samuel J., New York, N. Y., assignor to himself, and J. A. Lonchheim and E. S. Simon, Philadelphia, Pa. Fender for tram-cars	521,672	June 19	1634	383	67	1526
Rosegarten, Arthur H. (See Deisher, John R., assignor.)						
Rosenhauer, August G., and R. Brussel, New York, N. Y. Street-sweeper	529,198	Nov. 13	1211	292 } 293 }	69	885
Rosenkranz, Adam, Allegheny, Pa. Oil-well pump	530,350	Dec. 4	487	120	69	1303
Rosenstein, Louis. (See Davis, John B., assignor.)						
Rosenthal Brothers. (See Rosenfeld, Louis, assignor.)						
Rosenthal, Sigmund A., and V. C. Doubleday, London, England. Element for secondary batteries	520,614	May 29	2906	702	67	1137

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Rosentreter, Frank L., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Sash-balance.....	518,278	Apr. 17	1452	363	67	298
Rosenwald, Gustave, London, England. Machine for corrugating stiffeners for ladies' dresses, &c.....	515,615	Feb. 27	2702	671	66	1407
Rosenzweig, Aaron, New York, N. Y. Hydrocarbon-stove.....	523,054	July 17	1512	378	68	317
Rosenzweig, Paul, Philadelphia, Pa. Illusion apparatus.....	530,128	Dec. 4	91	24	69	1232
Rosewater, Benjamin J. (See Miller, George H., assignor.)						
Roslosnik, John, New York, N. Y. Vegetable-cutter.....	519,095	May 1	268	63	67	587
Ross, Alfred, Wichita, Kans. Conductor's check.....	526,264	Sept. 18	1632	383	68	1474
Ross, Ebenezer. (See Wood and Ross.)						
Ross, Frank, assignor to T. W. Smith, London, England. Apparatus for securing type or matter in printers' galleys.....	531,568	Dec. 25	2630	630	69	1744
Ross, Frederick W., Boston, Mass., assignor to Electric Gas Lighting Company, of Maine. Annunciator.....	513,956	Jan. 30	3629	907	66	831
Ross, Frederick W., Boston, Mass., assignor to Electric Gas Lighting Company, of Maine. Electrical annunciator.....	521,046	June 5	526	124	67	1292
Ross, Henry S. (See Seabury, Samuel, assignor.)						
Ross, Henry S., New York, N. Y. Ferrule for boiler-tubes.....	530,721	Dec. 11	1150	279	69	1438
Ross, James C., Jr., Joliet, Ill. Grain-cleanser.....	514,498	Feb. 13	876	223	66	1036
Ross, James J., assignor of one-half to G. R. Holden, Detroit, Mich. Electric alarm-signal for railway-crossings.....	522,431	July 3	455	115	68	90
Ross, James M., Glasgow, Scotland. Percussion apparatus for drilling.....	527,078	Oct. 9	657	160	69	138
Ross, Jasper S., Sharon, Pa. Invalid's cuspidor.....	520,967	June 5	346	94	67	1268
Ross, John, Halifax, Canada. Animal-trap.....	526,582	Sept. 25	2166	522	68	1391
Ross, John T. (See Preston, John D., assignor.)						
Ross-Keller Brick Machine Company. (See Keller, Henry H., assignor.)						
Ross-Moyer Manufacturing Company. (See Miller, Louis L., assignor.)						
Ross, P. Sanford. (See Ross, William L., assignor.)						
Ross, Peter S., Newark, N. J. Subaqueous rock-breaker.....	517,556	Apr. 3	230	52, 53	67	45
Ross, Robert H., Philadelphia, Pa. Copy-holder.....	518,652	Apr. 24	2101	524, 525	67	429
Ross, Simon, Cincinnati, Ohio. Leather-shaping machine.....	515,614	Feb. 27	2700	671	66	1406
Ross, Solon D., Manhattan, Kans. Inhaler.....	529,808	Nov. 27	2273	542	69	1109
Ross, Thomas, Westerly, R. I. Car-fender.....	525,516	Sept. 4	327	81	68	1212
Ross, Walter, Detroit, Mich. Self-heating soldering-iron.....	511,802	Jan. 2	87	22	66	19
Ross, William, Montreal, Canada. Portable and variable shafting for drilling-machines.....	512,486	Jan. 9	1278	307	66	253
Ross, William, Edinburgh, Scotland. Umbrella.....	529,629	Nov. 20	1978	471	69	1046
Ross, William F., and W. Wilckow, Rochester, N. Y. Soap-distributor.....	531,599	Dec. 25	2083	644	69	1735
Ross, William H., Waco, Tex. Soil-breaking machine.....	529,959	Nov. 27	2530	612	69	1153
Ross, William L., assignor to P. S. Ross, Newark, N. J. Subaqueous rock-breaking chisel.....	531,334	Dec. 25	2219	531	69	1665
Rosser, Charles M. (See Busbee and Rosser.)						
Rossetti, Charles de, London, England. Means for supporting velocipede-saddles.....	526,265	Sept. 18	1633	383, 384	68	1474
Rosson, George A., and C. A. Wever, Clayton, Ill. Churn.....	515,058	Feb. 20	1780	449	66	1219
Röstel, Carl B., Jacksonville, Oreg. Truss.....	517,194	Mar. 27	2458	578	66	1962
Roth, Charles H., Cincinnati, Ohio. Pneumatic tire.....	531,335	Dec. 25	2320	531	69	1665
Roth, David, Cleveland, Ohio. Garment-clasp.....	527,857	Oct. 23	2013	483	69	416
Roth, George, Newark, N. J. Hat setting or flanging machine.....	520,082	May 22	1999	489	67	953
Roth, John C., Lowell, Mich. Oil-can.....	525,744	Sept. 11	736	170	68	1298
Roth, William, assignor to T. Shriver & Co., New York, N. Y. Hoisting apparatus.....	519,294	May 1	637	155	67	660
Rothchild, Joseph, Bath Beach, assignor to G. W. Renton, G. C. and R. L. Cranford, Brooklyn, N. Y. Pump-regulator.....	518,927	Apr. 24	2577	637	67	516
Rothenberg, Daniel M., assignor of one-half to J. B. Russel, Lancaster, Pa. Bank-safe.....	523,946	July 31	3103	772, 773	68	641
Rothmann, Friederick. (See Streuber, Gustav A. F., assignor.)						
Rothbrock, Issac N., assignor of one-fourth to M. P. Flegal, Morrisdale Mines, Pa. Wheel-hub.....	517,241	Mar. 27	2527	594	66	1975
Rothbrock, Oscar, New York, N. Y. Track-clearer.....	523,595	July 24	2458	616, 617	68	505
Rothschild, Moses L., Chicago, Ill., assignor to Genett Air Brake Company, of Illinois. Air-brake apparatus.....	515,616	Feb. 27	2703	672	66	1407
Rothschild, Moses L., Chicago, Ill., assignor to Genett Air Brake Company, of Illinois. Air-brake system.....	515,617	Feb. 27	2704	672, 673	66	1407
Rothwell, James F., St. Louis, Mo. Movable house.....	528,131	Oct. 23	2458	594	69	498
Rotter, Herman, assignor of one-half to E. Schaeffer, Philadelphia, Pa. Washboiler.....	516,877	Mar. 20	1895	448	66	1839
Rothhoff, William, Rankin Station, Pa. Combination bosh-plate.....	515,694	Feb. 27	2834	703, 706	66	1432
Rottmer, Henry E., Washington, D. C. Boat-detaching apparatus.....	515,021	Feb. 20	1717	431	66	1209
Rotzien, Christopher, and P. Arnold, Beville, Tex. Stock-loader.....	515,794	Mar. 6	107	25	66	1474
Rounds, Herbert G., West Bay City, Mich. Combined step-ladder, ironing-table, and washbench.....	530,625	Dec. 11	982	241	69	1410
Rounds, Herbert G., West Bay City, Mich., assignor to W. Goldie, Wilkinsburg, Pa. Multiple-plug strip.....	519,553	May 8	1119	269	67	763
Rounseville, George L. B., Chicago, Ill. Surgical tourniquet.....	515,367	Feb. 27	2307	573	66	1331
Rourke, John, Norwich, Conn. Cylinder-pin catch for revolvers.....	519,875	May 15	1651	402	67	874
Rourke, John, Salt Lake City, Utah Ter. Condensing apparatus.....	530,553	Dec. 11	860	212, 213	69	1388
Rouse, John H., assignor of one-half to J. H. and C. A. Schonhoff, Advance, Mo. Stump-extractor.....	519,821	May 15	1560	382	67	857
Rouse, John H., and C. A. Schonhoff, Advance, Mo. Churn.....	525,865	Sept. 11	970	217	68	1339
Rouse, Seymour A., Chicago, Ill. Tower for windmills.....	526,793	Oct. 2	204	48	69	39
Rouse, William H., Fairmont, Minn. Combined hay stacker and loader.....	526,367	Sept. 18	1824	433	68	1513
Roussy de Sales, Jules F. G. de, Ste. Meneshould, France. Horseshoe-calk.....	515,619	Feb. 27	2708	673	66	1408
Roust, Joseph, Quincy, Mass. File-holder.....	519,738	May 15	1427	344	67	832
Routh, Oswald R., Jersey City, N. J. Safety appliance for street-railway cars.....	521,477	June 19	1303	304	67	1466
Rouy, Gustave, Chicago, Ill. Brake for railway-cars.....	530,460	Dec. 4	657	163, 164	69	1336
Ronze, Joseph E., McPherson, Kans. Surgical chair.....	515,303	Feb. 20	2191	543	66	1297
Row, Oliver M., Liverpool, England. Surface condenser.....	514,338	Feb. 6	620	158, 159	66	969
Row, Samuel H. (See Godfrey, Joseph S., assignor.)						
Rowand, Lewis G., assignor to Universal Fire Alarm Company, Camden, N. J. Thermostat.....	527,375	Oct. 9	1147	281	69	228
Rowell, Hiram C., Berlin, N. H. Apparatus for the construction of chimneys.....	521,820	June 26	1895	456	67	1592
Rowell, Joseph W., San Francisco, Cal. Terra-cotta and other fireproof constructions.....	531,134	Dec. 18	1850	439	69	1583

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Rowenhagen, Emil. (See Klein and Rowenhagen.)						
Rowland, Charles L., Brooklyn, N. Y. Welding apparatus	519,776	May 15	1487	360	67	843
Rowland, David E., Canton, Ohio. Hoist	524,403	Aug. 14	778	190	68	820
Rowland, George, Conshohocken, Pa. Lantern	530,626	Dec. 11	983	241	69	1410
Rowland, Henry A., Baltimore, Md. Cooling the iron of transformers	513,420	Jan. 23	2792	684	66	627
Rowland, Henry A., Baltimore, Md. Cooling transformers	513,421	Jan. 23	2793	684	66	627
Rowland, Henry A., Baltimore, Md. Means for cooling electric conductors	513,422	Jan. 23	2794	{ 684 685 }	{ 66 66 }	628
Rowland, William H., <i>et al.</i> (See Tatem, James W., assignor.)						
Rowland, William P. (See Heckert and Rowland.)						
Rowlands, John R., assignor of one-half to W. H. Boles, Syracuse, N. Y. Can-cleaning machine	523,713	July 31	2684	{ 665 666 666 }	{ 68 68 68 }	562
Rowlands, John R., assignor of two-thirds to W. H. Boles and W. H. Wales, Syracuse, N. Y. Game apparatus	523,712	July 31	2677	{ 664 665 665 }	{ 68 68 68 }	561
Rowlands, Walter, Montreal, Canada. Railway-frog	524,469	Aug. 14	873	{ 215 216 }	{ 68 68 }	839
Rowley, Frank, West Superior, Wis. Mail and express car	530,243	Dec. 4	295	73	69	1269
Rowley, Frank, assignor of one-half to G. W. Roberts, West Superior, Wis. Dish-cleaner.	531,389	Dec. 25	2318	553	69	1684
Rowley & Hermance Company. (See Marsh, Calvin D., assignor.)						
Rowley, James F., Des Moines, Iowa. Coapating pad for artificial limbs	526,057	Sept. 18	1277	295	68	1409
Rowley, Leslie B., Ashland, Wis. Battery system for electric railways	512,907	Jan. 16	1993	{ 472 473 }	{ 66 66 }	404
Rowley, Leslie B., Ashland, Wis. Secondary battery	515,502	Feb. 27	2517	624	66	1369
Rowley, Leslie B., Ashland, Wis. Electric heater	517,170	Mar. 27	2420	569	66	1954
Rowley, Salmon B. (See Fischer, Cleophas, assignor.)						
Rowley, Salmon B. (See Gault and Schrader, assignors.)						
Rowley, Salmon B. (See Grebe, Christian, assignor.)						
Rowley, Salmon B. (See Rilling, Joseph, assignor.)						
Rowntree, Harold, assignor of one-half to J. B. Burdett, Kansas City, Mo. Indicator for elevators	512,223	Jan. 2	819	{ 198 199 }	{ 66 66 }	155
Rowntree, Harold, assignor of one-half to J. B. Burdett, Kansas City, Mo. Device for operating elevator-doors	520,833	June 5	144	32	67	1223
Roy, Antoine, <i>et al.</i> (See Chazotte, Jean E., assignor.)						
Roy, Joseph K., <i>et al.</i> (See Hall, Charles H., assignor.)						
Roy, Joseph P., <i>et al.</i> (See Fortin, Jules E., assignor.)						
Royal Arc Electric Company. (See Marks, Louis B., assignor.)						
Royall, John P., Columbia, Mo. Adding-machine	521,221	June 12	834	{ 195 196 }	{ 67 67 }	1361
Royer, Louis C., Dayton, Ohio, assignor to F. B. Brock, Washington, D. C. Steam-engine	515,695	Feb. 27	2835	706	66	1433
Royle, John J., Flixton, near Manchester, England. Steam-trap	523,496	July 3	546	139	68	108
Royster, Sigel A. (See Cutler, Lorrain L., assignor.)						
Ru Ton, Hiram W., Goshen, Ind., assignor to Goshen Sweeper Company, Grand Rapids, Mich. Carpet-sweeper	525,721	Sept. 11	694	161	68	1291
Ru Ton, Hiram W., assignor to Goshen Folding Bed Company, Goshen, Ind. Folding bed	526,609	Nov. 6	148	37	69	674
Rübenkamp, August, Dortmund, Germany. Apparatus for drying raw or prepared goods	528,807	Nov. 6	508	{ 122 123 }	{ 69 69 }	738
Rubens, Lee, assignor to L. Rubens, Chicago, Ill. Undershirt	528,988	Nov. 13	856	203	69	823
Rubens, Lillie. (See Rubens, Lee, assignor.)						
Rubenstein, Barnet, Chicago, Ill. Bung-stopper	527,888	Oct. 23	2013	483	69	416
Rubenstein, Nathan, Chicago, Ill. Cloth-cutting machine	521,003	June 5	450	107	67	1278
Rubin, Max, New York, N. Y. Fan	511,900	Dec. 13	1120	269	67	763
Rubin, Max, New York, N. Y. Writing-tablet	511,900	Dec. 13	1715	408	69	1558
Rubin, Max, New York, assignor to Automatic Faucet Company, Brooklyn, N. Y. Stopper	521,047	June 5	527	124	67	1293
Rubinstein, Nicolas, C. Cluley, and E. Clarke, Coventry, England. Pedal and crank for velocipedes	523,596	July 24	2461	617	68	505
Ruby, Alba A., Quincy, Ill. Stove	528,929	Nov. 13	857	203	69	823
Ruby, John C., and M. E. Frey, York, Pa., assignors to National Manufacturing Ice and Refrigerating Machine Company, Baltimore City, Compressor-pump	512,664	Jan. 9	1547	372	66	305
Ruehill Chemical Company. (See Meikle, James, Jr., assignor.)						
Rucinski, Szymon, and F. M. Kozlowski, Hazelton, Pa. Bellows for forges, &c.	528,808	Nov. 6	510	123	69	739
Ruckel, John F., <i>et al.</i> (See Smith, Norton, assignor.)						
Rucker, Martin D., London, and G. P. Mills, Beeston, England. Wheel for cycles	514,965	Feb. 20	1636	409	66	1195
Rucker, William H., Hillsborough, Oreg. Combined water-motor and fan	516,901	Mar. 20	1934	457	66	1846
Ruckstnat, Johannes. (See Alihans and Ruckstnat.)						
Ruddy, John, Denver, Colo. Water-gate safety-valve	531,387	Dec. 25	2316	552	69	1684
Rudert, Max, Duquesne, Pa. Hot-air furnace	524,653	Aug. 14	1175	289	68	894
Rudge, Frederick S., and R. E. Doolittle, Brooklyn, N. Y. Ink-blotter	522,432	July 3	456	115	68	91
Rudge, Henry C., Denver, Colo. Ore-roasting furnace	523,487	July 24	2285	{ 574 575 }	{ 68 68 }	472
Rudgegear, Andrew, <i>et al.</i> (See Rodin, Charles F., assignor.)						
Rudkins, William. (See Brooks, Reilly, and Rudkins.)						
Rudman, Charles. (See Gordon, Minthorne T., assignor.)						
Rudolph, Alexander J., San Francisco, Cal. Slip-cutter for index purposes	516,119	Mar. 6	614	143	66	1567
Rudolph, Alexander J., San Francisco, Cal. Card-catalogue	528,692	Nov. 6	307	75	69	702
Rudolph, Alexander J., San Francisco, Cal. Binder for books or pamphlets	528,693	Nov. 6	308	75	69	702
Rudolph, Christian, assignor to Firm of K. Oehler, Offenbach-on-the-Main, Germany. Brown azo dye	516,380	Mar. 13	1066	.....	66	1666
Rudolph, Christian, assignor to Firm of K. Oehler, Offenbach-on-the-Main, Germany. Azo dye from amidophenolsulfo-acid	516,381	Mar. 13	1067	.....	66	1666
Rudolph, Justus H., Slatington, Pa. Slate-frame	524,333	Aug. 14	680	165	68	801
Rudolph, Paul, and O. Näther, assignors to Firm of Carl Zeiss, Jena, Germany. Iris-diaphragm shutter	524,670	Aug. 14	1200	294	68	899
Rudy, Robert C., Detroit, Mich., assignor, by mesne assignments, to M. E. Griswold Company, Chicago, Ill. Bicycle mud-guard	520,245	May 22	2298	558	67	1007
Ruebel, Ernst, assignor to himself, S. B. Pike, and W. N. Matthews, St. Louis, Mo. Electrical switch	517,664	Apr. 3	422	{ 102 103 }	{ 67 67 }	81
Rueben, Joseph, Aix-la-Chapelle, Germany. Fireproof ceiling	530,129	Dec. 4	93	25	69	1232
Rueff, Emil, New York, N. Y. Apparatus for distributing carbonic acid	518,513	Apr. 17	1870	463	67	373
Rueff, Emil, New York, N. Y. Apparatus for charging liquids with gas	518,514	Apr. 17	1871	463	67	374
Ruehr, Emil F., Vienna, Austria-Hungary. Combined heater, cooler, and ventilator	516,405	Mar. 13	1101	262	66	1673
Ruehs, Charles L., assignor to Ruehs Moulding Sandpapering Machine Company, Chicago, Ill. Sandpapering-machine	526,845	Oct. 2	237	69	69	55

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Ruehs Moulding Sandpapering Machine Company. (See Ruehs Charles L., assignor.)						
Ruemmler, Gustav A., assignor of two-thirds to W. E. Hodgman and W. D. Baldwin, Yonkers, N. Y. Golf-stick.	513,733	Jan. 30	3356	828	66	765.
Ruffhead, Fred C., and W. F. Anthony, Williamsport, Pa., assignors to Clark Stamping Company, Rochester, N. Y. Buckle.	531,336	Dec. 25	2224	531	69	1666.
Ruffin, Marie C. A. (See Bang and Ruffin.)						
Ruffner, Daniel B., Philadelphia, Pa. Clamp for railway-rails.	517,665	Apr. 3	424	103	67	81
Ruffner, Jonas F., assignor of one-fourth to P. P. Fanning, Raton, N. Mex. Ter. Retainer for scarf-pins.	526,746	Oct. 2	122	30	69	25.
Rugger, Charles, Lucky Valley, Iowa. Vehicle-top.	511,909	Jan. 2	310	72	66	60.
Ruggles, Willis R. (See Cross, Joel W., assignor.)						
Ruhland, Henry. (See Fochi, Charles, assignor.)						
Rubnstroth, H. (See Lepley, Thomas B., assignor.)						
Rumley, Charles, Helena, Mont. Rotary pump.	516,406	Mar. 13	1104	263	66	1674.
Rumley, Charles, Helena, Mont. Blower.	523,548	July 24	2334	598	68	491.
Rumley, Charles, Helena, Mont. Pump.	526,944	Oct. 2	456	112	69	86.
Rummel, John C. Sheridan, Wyo. Water-gage.	517,483	Apr. 3	113	25.26	67	24.
Rumrell, James, Boston, Mass. Car-fender.	524,841	Aug. 21	1501	367	68	965.
Rumrille, Henry J., Haddonfield, N. J., assignor of one-half to E. H. Williams, Philadelphia, Pa. Knockdown adjustable packing-case.	519,521	Jan. 9	1325	320	66	262.
Rumsey, Oscar C., assignor of one-half to J. Bell, Whitman, Mass. Door-knob fastener.	527,560	Oct. 16	1451	353	69	298.
Rumsey, William D., Detroit, Mich. Fire-escape.	531,007	Dec. 18	1625	385	69	1541.
Runck, Daniel and W., Delhi, Ohio. Garden implement.	517,888	Apr. 10	770	192	67	163.
Runck, William. (See Runck, Daniel and W.)						
Rundberg, Charles J., Centropolis, Mo. Bake-pan.	526,747	Oct. 2	129	31	69	26.
Rundell, Fred H., Horseheads, N. Y. Chopping-knife.	518,279	Apr. 17	1453	363	67	299.
Rundle, Anthony M. (See Murphy, Frank J., assignor.)						
Rundquist, William, Elgin, Ill. Feeder for jewel-setting machines.	519,027	May 1	141	35	67	563.
Rundquist, William, assignor of one-half to H. G. Weatherill, Elgin, Ill. Lawn-sprinkler.	513,957	Jan. 30	3690	908	66	831.
Ruyny, Leroy, Iola, Kans. Ridging attachment for corn-planters.	527,160	Oct. 9	791	193	69	161.
Rupp, Gottlieb. (See Reiffer, Ulrich, assignor.)						
Ruppel, Albert. (See Hackman and Ruppel.)						
Ruppel, Henry. (See Dangler and Ruppel.)						
Ruppel, Henry, Cleveland, Ohio. Vapor-burner.	520,805	June 5	81	18	67	1213.
Ruppel, Henry, Cleveland, Ohio. Vapor-stove.	521,128	June 5	664	156 157	67	1317.
Ruppel, Henry, assignor of one-half to A. E. Gilbert, Cleveland, Ohio. Oil-radiator.	517,242	Mar. 27	2528	594	66	1976.
Ruppel, Henry, assignor to Dangler Stove and Manufacturing Company, Cleveland, Ohio. Air-valve for gas-burners.	522,344	Oct. 30	2821	682	69	578.
Ruppel, Leonard. (See Hackman and Ruppel.)						
Ruppert, Matthew. (See Thomas, William, assignor.)						
Rusco, Philip, assignor of one-half to W. H. Wyckoff, Elmira, N. Y. Kettle attachment.	516,991	Mar. 20	2089	494	66	1474.
Rush, George L., Dodge, Tex. Nut and bolt lock.	528,990	Nov. 13	858	203	69	823.
Rush, Jacob D., San Diego, Cal. Chamber or other liquid-receiving vessel.	515,131	Feb. 20	1895	476	66	1241.
Rush, John, Norwich, Conn. Copy-holder.	523,906	July 31	3014	750	68	624.
Rush, William S., Alexandria, assignor of one-third to J. S. Derrough and W. F. Holton, Walnut Hill, La. Steam-engine.	531,276	Dec. 18	2110	507	69	1629.
Rushmore, Samuel W., Brooklyn, N. Y. Electric arc lamp.	515,022	Feb. 20	1719	432	66	1209.
Rushton, Kenneth. (See Vancian and Rushton.)						
Rushton, Thomas H., Bolton, England. Gearing for imparting differential motion in machinery.	526,413	Sept. 25	1929	459	68	1544.
Rushworth, Isaac. (See Kay, Wilkinson, and Rushworth.)						
Rushworth, Isaac, Jamestown, N. Y. Dabbing-brush apparatus for wool-combing machines.	525,429	Sept. 4	190	48	68	1186.
Rushworth, Isaac, Jamestown, N. Y. Loom-shuttle.	526,748	Oct. 2	131	31	69	26.
Russ Car Fender Company. (See Fitzhugh, William L., assignor.)						
Russel, Jacob B. (See Rothenberger, Daniel M., assignor.)						
Russell, Albert N., Mound Valley, Kans. Corn-shocking device.	513,734	Jan. 30	3357	828	66	765.
Russell, Alonzo, Russellville, Ark. Monument.	512,396	Jan. 9	1105	268	66	221.
Russell, Andrew J., and J. A. Mattoon, Bryan, Ohio. Gate.	517,070	Mar. 27	2250	532	66	1921.
Russell, Charles H., Ennis, Tex. Breast-strap for harness.	531,569	Dec. 25	2630	630	69	1745.
Russell, Charles L., Philadelphia, Pa. Seat and back-rest.	513,735	Jan. 30	3358	828	66	765.
Russell, Charles T., et al. (See Dnbbs, Jesse A., assignor.)						
Russell & Co. (See Heggem, Charles O., assignor.)						
Russell, Edgar A. (See Crandall and Russell.)						
Russell, Edgar A., and N. W. Crandall, assignors to Housatonic Manufacturing Company, Wallingford, Conn. Shade-holder for incandescent lamps.	527,623	Oct. 16	1554	376	69	316.
Russell & Erwin Manufacturing Company. (See Burgess, Charles M., assignor.)						
Russell, Frederick C. (See Swan, George C., assignor.)						
Russell, Frederick V., Stratford, England. Station-indicator.	516,944	Mar. 20	2010	474	66	1859.
Russell, George, McKeesport, Pa. Apparatus for coating metal sheets.	524,736	Aug. 21	1317	322	68	932.
Russell, George, Hamilton, Canada. Farm-fence.	524,737	Aug. 21	1319	322	68	933.
Russell, George R., San Diego, Cal. Kitchen-table.	512,665	Jan. 9	1548	372	66	305.
Russell, Huntley, Grand Rapids, Mich. Coin-receptacle.	517,071	Mar. 27	2251	533	66	1921.
Russell, James R., Hopewell Hill, Canada. Ice-creper.	521,821	June 26	1900	456	67	1593.
Russell, John N., Los Angeles, Cal. Advertising-wagon.	520,541	May 29	2783	673	67	1113.
Russell, N. F., et al. (See Smith, Orison M., assignor.)						
Russell, Philip G., et al. (See Kimball, William W., assignor.)						
Russell, Presley J., and L. De Vaux, Maryville, Mo. Washing-machine.	530,854	Dec. 11	1357	324	69	1477.
Russell, Thomas, et al. (See Burson, Harvey, assignor.)						
Russell, William E., Rome, Ga., and M. S. Woods, Tecumseh, Ala. Nut-lock.	516,382	Mar. 13	1068	253	66	1666.
Russell, William H., Vancouver, Canada. Grip for cable cars.	513,283	Jan. 23	2588	626 627	66	588.
Russell, William H., New City, and H. C. Earl, New York, N. Y. Inhaler.	516,448	Mar. 13	1177	282	66	1688.
Russell, William T., Worcester, Mass. Broiler or toaster.	514,568	Feb. 13	987	249	66	1057.
Russell, Winfield S., New York, N. Y. Fountain ink-well.	523,010	July 17	1438	359	68	302.
Russo, Mario, assignor of one-half to G. B. Zanardo, Rome, Italy. Reproducing objects in relief or intaglio by the aid of photography.	520,707	May 29	3076	.....	67	1167.
Rust, Henry A. (See Scheelo and Rust.)						
Rust, Robert S., assignor of one-fourth to G. W. Chancellor, Delaplane, Va. Truck.	529,960	Nov. 27	2541	612	69	1158.
Rust, Robert S., Warren county, assignor of three-fourths to J. R. Green, Fauquier county, and J. W. Yates, Rappahannock county, Va. Wrench.	516,281	Mar. 13	893	211	66	1636.
Ruth, Charles W., Mobile, Ala. Name-plate attachment.	525,287	Aug. 28	2273	554	68	1122.
Ruth, David C., Halstead, Kans. Band-cutter and feeder for thrashing-machines.	524,267	Aug. 7	499	116	68	751.

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Ruth, Frank J. (See Smith, Henry W., assignor.)						
Ruth, Linford F., Connellsville, Pa. Combined sleeping and parlor car	529,961	Nov. 27	2542	{ 612 613 }	{ 69 }	1158
Ruthenberg, August, assignor of one-half to J. S. Gunsaul, Rochester, N. Y. Extension-ladder truck	524,047	Aug. 7	126	29	68	685
Rutherford, Adrian S., New York, N. Y. Metallic-covered wax for dental or other purposes	527,218	Oct. 9	880	214	69	179
Rutherford, Adrian S., New York, N. Y. Wax product for dental or other purposes	527,219	Oct. 9	881	214	69	179
Rutherford, Clementine D., Brooklyn, N. Y. Pin	514,132	Feb. 6	244	59	66	900
Rutherford, James, Brooklyn, N. Y. Railway-crossing gate	531,066	Dec. 18	1717	{ 408 409 }	{ 69 }	1558
Rutherford, James R., Paris, Tex. Attachment for locomotives	520,615	May 29	2907	702	67	1137
Rutledge, Charles A. (See Crounse and Rutledge.)						
Rutter, George S. M., assignor of one-half to J. J. Renkert, Canton, Ohio. Brick-kiln	528,113	Oct. 23	2421	586	69	492
Rutter, John F. (See Sprague and Rutter.)						
Rutterer, Albert, <i>et al.</i> (See Bright, William H., assignor.)						
Rutherford, Charles F., London, England. Artificial tooth	516,120	Mar. 6	616	144	66	1568
Ryan, Arthur, assignor of one-half to W. Guy, Colbergen, Nebr. Combined hay rake and stacker	526,819	Oct. 2	244	59, 60	69	46
Ryan, Della, Owosso, Mich. Pattern for drafting garments	516,449	Mar. 13	1178	{ 282 283 }	{ 66 }	1688
Ryan, George F., assignor of one-half to J. L. Duplissis, Chicago, Ill. Bridge-gate	516,121	Mar. 6	616	{ 144 145 }	{ 66 }	1568
Ryan, James B., New York, N. Y. Metallic bedstead	524,955	Aug. 21	1660	412	68	997
Ryan, James E. (See Santee and Ryan.)						
Ryan, John F., Toronto, Canada. Life-guard for street-cars	527,813	Oct. 23	1869	449	69	392
Ryan, Michael B., Boston, Mass., assignor of two-thirds to C. L. Backus and C. F. Lincoln, Andover, Conn. Folding bicycle	518,330	Apr. 17	1539	384	67	313
Ryan, Michael J., assignor to himself and J. F. Kelly, New Orleans, La. Leather-stripping machine	521,048	June 5	522	{ 124 125 }	{ 67 }	1293
Ryan, Patrick J. (See Allen, Frederick E., assignor.)						
Ryan, Patrick S., Rutland, Vt. Milk strainer and aerator	526,637	Sept. 25	2275	544	68	1608
Ryan, Richard H., Brooklyn, N. Y. Pencil-case	531,135	Dec. 18	1851	439	69	1583
Ryan, Richard H., Brooklyn, N. Y. Pencil-case	531,136	Dec. 18	1852	439	69	1583
Ryan, Thomas J., Buffalo, N. Y. Stop-cock box	520,542	May 29	2786	{ 673 674 }	{ 67 }	1114
Ryan, Thomas J., Buffalo, N. Y. Ventilating-cap	527,185	Oct. 9	825	{ 200 201 }	{ 69 }	169
Ryan, William, Globe, Ariz. Ter. Hot-air furnace	526,087	Sept. 18	1333	310	68	1418
Ryan, William W., Alpena, Mich. Machine for cutting excelsior	515,059	Feb. 20	1781	449	66	1219
Ryberg, Charles J., Chicago, Ill. Cash register and indicator	513,443	Jan. 23	2830	{ 695 696 }	{ 66 }	633
Ryberg, Charles J., Chicago, Ill. Multiple adding-machine for cash-registers	531,277	Dec. 18	2112	{ 507 508 }	{ 69 }	1629
Ryckman, Garrett E., and M. Tucker, Brockton, N. Y. Grape-vine fastener	517,484	Apr. 3	115	26	67	24
Ryden, Swen, assignor of one-half to J. Gothenor, Duluth, Minn. Locomotive or car replacer	512,487	Jan. 9	1280	308	66	254
Ryder, Andrew V., Bellevue, Ohio. Cultivator-tooth	512,485	Jan. 9	1479	357	66	291
Ryder, Andrew V., Bellevue, Ohio. Cultivator-tooth	523,597	July 24	2462	618	68	505
Ryder, David C., Catskill, assignor to J. N. Briggs, Coeymans, N. Y. Ice-handling implement	525,923	Sept. 11	1055	239	68	1355
Ryder, Malcolm P., New York, N. Y. Voltage-regulator for dynamos	526,583	Sept. 25	2188	523	68	1591
Ryding, Herbert C., Johnstown, Pa. Cambering-machine	520,708	May 29	3078	744	67	1167
Ryding, Herbert C., Johnstown, Pa. Apparatus for cambering rails	520,865	June 5	202	45	67	1234
Ryding, Herbert C., Johnstown, Pa. Cambering-machine	531,448	Dec. 25	2433	579	69	1706
Rylander, William P., <i>et al.</i> (See Bessonette, William T., assignor.)						
Rymer-Jones, Thomas M., London, England. Heating forced draft	523,598	July 24	2463	618	68	506
Rymes, George W., Newton, assignor to J. F. Wood, Boston, Mass. Device for balancing rotating parts	525,799	Sept. 11	833	189	68	1316
Ryno, Frederick A., assignor of one-half to A. H. Warren, St. Paul, Minn. Button-attaching machine	517,485	Apr. 3	116	26	67	24
Ryno, Frederick A., assignor of one-half to A. H. Warren, St. Paul, Minn. Button-riveting machine	520,451	May 29	2631	{ 636 637 }	{ 67 }	1086
Ryon, Francis M., Streator, Ill. Wire-glass machine	531,570	Dec. 25	2631	630	69	1745
S. Bottomley & Brothers. (See Waddington, Alfred, assignor.)						
S. S. White Dental Manufacturing Company. (See Browne, Arthur W., assignor.)						
S. S. White Dental Manufacturing Company. (See Doriot, Constant, assignor.)						
S. S. White Dental Manufacturing Company. (See Hollingsworth, Jephtha G., assignor.)						
S. S. White Dental Manufacturing Company. (See How, Woodbury S., assignor.)						
S. S. White Dental Manufacturing Company. (See Lusby and Richardson, assignors.)						
S. S. White Dental Manufacturing Company. (See Richardson, Charles H., assignor.)						
S. W. Jamison Boot and Shoe Crimping Machine Company. (See Jamison, Samuel W., assignor.)						
Saalberg, Jacob, <i>et al.</i> (See Hirschfeld, Leo., assignor.)						
Saankopf, Hermann, Brunswick, Germany. Car-coupling	515,251	Feb. 20	2095	520	66	1278
Saati, Newman M., assignor to himself and W. A. Walton, Providence, R. I. Watch	512,328	Jan. 9	985	{ 241 242 243 }	{ 66 }	199
Sabin, Belle C., Tacoma, Wash. Cooking-kettle	525,924	Sept. 11	1057	240	68	1355
Sabin, Harvey D., St. Albans, Vt. Valve seating tool	514,687	Feb. 13	1188	296	66	1095
Sabin, Horace D., Xenia, Ohio. Cultivator	515,843	Mar. 6	181	43	66	1487
Sabin, John I., San Francisco, Cal. Telephone system	529,465	Nov. 20	1708	{ 407 408 }	{ 69 }	997
Sabin, John I., and W. Hampton, San Francisco, Cal. Signaling system for telephone-circuits	513,534	Jan. 30	3017	745	66	703
Sabin, John I., and W. Hampton, San Francisco, Cal. Single-line telephone system	517,243	Mar. 27	2529	594	66	1976
Sabin, John I., and W. Hampton, San Francisco, Cal. Telephone-exchange system	518,331	Apr. 17	1541	384	67	313
Sabin, John I., and W. Hampton, San Francisco, Cal. Telephone system	518,332	Apr. 17	1544	385	67	314
Sabin, John I., and W. Hampton, San Francisco, Cal. Telephone-exchange system	518,333	Apr. 17	1548	385	67	315
Sabin, John I., and W. Hampton, San Francisco, Cal. Telephone-exchange system	518,334	Apr. 17	1551	384	67	316
Sabin, John I., and W. Hampton, San Francisco, Cal. Telephone trunk-line system	520,083	May 22	2000	489	67	953
Sabroe, Axel V. T., Haderslev, Germany. Releasing-cleat or belaying-pin	525,624	Sept. 4	506	122	68	1246
Sabroe, Axel V. T., Haderslev, Germany. Releasing belaying-pin	530,722	Dec. 11	1151	279	69	1439
Sachers, Ralph J., New York, N. Y. Manufacture of printing-plates	518,826	Apr. 24	2409	596	67	483

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Sachs, Gustav A., Engene, Oreg. Ejector for breakdown guns	523,130	July 17	1659	416	68	345
Sachs, Joseph. (See Huber and Sachs.)						
Sachs, Joseph, New York, N. Y. Electrical means for propelling canal-boats	513,466	Jan. 23	2582	709	66	644
Sachs, Joseph, New York, N. Y. Auxiliary fire-alarm telegraph	514,279	Feb. 6	520	128	66	951
Sachs, Joseph, New York, N. Y. Auxiliary fire-alarm-telegraph system	515,503	Feb. 27	2518	624	66	1370
Sachs, Joseph, New York, N. Y. Electric cigar-lighter	516,878	Mar. 20	1896	448	66	1839
Sachs, Joseph, New York, N. Y. Auxiliary fire-alarm-signal system	522,231	July 3	97	22	68	19
Sachs, Joseph, New York, N. Y. Electric safety-fuse	522,232	July 3	100	23	68	19
Sachs, Joseph, and A. Müller-Jacobs, New York, N. Y. Mineral color	512,224	Jan. 2	821	-----	66	156
Sachs, Joseph, and A. Müller-Jacobs, New York, N. Y. Mineral color	512,225	Jan. 2	822	-----	66	156
Sachs, Joseph, and A. Müller-Jacobs, New York, N. Y. Mineral color	512,226	Jan. 2	823	-----	66	156
Sachs, Joseph, and E. Huber, New York, N. Y. Manufacturing metallic powders	521,991	June 26	2225	535	67	1653
Sachs, Joseph, and E. Huber, New York, N. Y. Manufacturing metallic powders	521,992	June 26	2226	-----	67	1653
Sackett, Augustine, New York, N. Y. Inside-wall covering	520,123	May 22	2066	504	67	965
Sackett, Charles E., Danbury, Conn. Machine for cutting fur from pelts	517,397	Mar. 27	2820	660	66	2033
Sacksteder, Henry J., Louisville, Ky. Unicycle	521,673	June 19	1636	383	67	1526
Saddler, Robert A., assignor of one-half to W. Balser, Canton, Ohio. Calipers and dividers	524,611	Aug. 14	1109	273	68	882
Sadler, James F. (See Gibson, Wyatt, assignor.)						
Saeman, Daniel C. and T. W., assignors of one-third to A. C. Seaman, Philadelphia, Pa. Conveying machinery	523,083	July 17	1547	388	68	324
Saeman, Thomas W. (See Saeman, Daniel C. and T. W.)						
Safety Car Heating and Lighting Company. (See Dixon, John A., assignor.)						
Safety Car Heating and Lighting Company. (See Dixon, Robert M., assignor.)						
Safety Car Heating and Lighting Company. (See Towne, Henry R., assignor.)						
Safold, Ray P., Selma, Ala. Penholder	528,809	Nov. 6	511	123	69	739
Safford, Joseph A., Malden, Mass. Leather-splitting machine	514,730	Feb. 13	1268	316 317	66	1109
Sage, Charles H., Jr., et al. (See Wegner, Frederick A., assignor.)						
Sagendorph, Longley L., Philadelphia, Pa. Machine for stamping sheet metal	519,555	May 8	1122	269	67	763
Sague, George. (See Womersley, Sague, and Clapp.)						
Sague, George, Poughkeepsie, N. Y. Side-registering mechanism for paper-feeders	529,084	Nov. 13	1016	245	69	850
Sague, George, Poughkeepsie, N. Y., assignor, by mesne assignments, to Economic Machine Company, of New York. Paper-feeding machine	529,414	Nov. 20	1609	382	69	979
Sahlstrom, August, Minneapolis, Minn. Urinal	525,925	Sept. 11	1058	240	68	1355
Sailer, Zachary T., New York, N. Y. Dental-tool-sterilizing apparatus	526,462	Sept. 25	2015	480	68	1559
Saks, Andrew, et al. (See Taylor, Isaiah H., assignor.)						
Saks, Isadore, et al. (See Taylor, Isaiah H., assignor.)						
Saladin, Jules A., Nancy, France. Barley or other grain washer	515,618	Feb. 27	2706	673	66	1408
Saladin Pneumatic Malting Construction Company. (See Prinz, William H., assignor.)						
Salathé, Frederick, Santa Paula, Cal. Swivel	515,023	Feb. 20	1721	432	66	1210
Salberg, Frederick S., London, England. Dust-bin, dust-cart, &c.	530,057	Nov. 27	2740	657	69	1198
Sale, Robert A. (See Hardesty and Sale.)						
Salenius, Erik G. N., Stockholm, Sweden. Producing cheese curds in a continuous manner	526,165	Sept. 18	1464	-----	68	1442
Salfield, David, and H. Kohlberg, San Francisco, Cal. Jail construction	516,450	Mar. 13	1180	283	66	1688
Salinger, Julius. (See Baril, Thomas A., assignor.)						
Salisbury, Levi E., Providence, R. I. Knitting-machine	520,452	May 29	2635	637	67	1087
Salisbury, Levi E., Providence, R. I. Knitting-machine	521,248	June 12	881	208	67	1370
Salisbury, Levi E., assignor to H. A. Church, Providence, R. I. Knitting-machine	528,810	Nov. 6	512	124	69	739
Salmon, Ira A., Boston, Mass. Autoharp	511,970	Jan. 2	408	95	66	78
Salmon, Wilmer W., Chicago, Ill., assignor to Hall Signal Company, of Maine. Electric signal apparatus	526,414	Sept. 25	1930	460	68	1544
Salmon, Wilmer W., Chicago, Ill., assignor to Hall Signal Company, of Maine. Electric signal apparatus	526,415	Sept. 25	1932	460	68	1544
Salomon, Etienne, assignor of one-half to G. Schrade, New York, N. Y. Speed-regulator	513,148	Jan. 23	2367	571 572	66	545
Salisbury, Lant K., et al. (See Selleck, Theodore G., assignor.)						
Saltmarsh, Nehemiah, Concord, N. H. Hanger and guide for blinds	525,745	Sept. 11	736	170	68	1299
Saltzman, Aaron J., Albany, assignor to M. Nellis, St. Johnsville, N. Y. Egg-beater, &c.	522,944	July 10	1318	328	68	265
Saltzman, Harry A., Erie, Pa. Trousers-stretcher	525,258	Aug. 28	2275	554	68	1122
Saltzkorn, Emil, and L. Nicolai, Dresden, Germany. Stamping-punch	517,171	Mar. 27	2421	569	66	1954
Saltzkorn, Emil, and L. Nicolai, Dresden, Germany. Riveting-machine	517,172	Mar. 27	2422	569	66	1955
Saltzkorn, Emil, and L. Nicolai, Dresden, Germany. Machine for fastening metal strips on pasteboard, &c.	529,752	Nov. 27	2184	521	69	1092
Saltzkorn, Emil, and L. Nicolai, Dresden, Germany. Apparatus for pressing or stamping articles from wood-pulp, &c.	529,753	Nov. 27	2186	521	69	1092
Saltzkorn, Emil, and L. Nicolai, Dresden, Germany. Stamping or pressing machine	531,337	Dec. 25	2225	532	69	1666
Salveter, Theodore C., St. Louis, Mo. Metallic draft-sill for cars	512,329	Jan. 9	991	243	66	199
Salveter, Theodore C., St. Charles, Mo. Transom for cars	523,378	July 24	2080	524	68	438
Salzer, Henry, Baltimore, Md. Packing-vessel and method of preserving food articles	523,649	Nov. 6	233	58	69	688
Salzer, Leopold, et al. (See Strakosch, Max, assignor.)						
Salzman, Christian A., assignor of two-thirds to E. P. Kennel, Hamilton, Ohio, and J. A. Robbins, Indianapolis, Ind. Combination-tool	529,962	Nov. 27	2544	613	69	1159
Salzman, Joseph A., Merrimac, Iowa. Machine for wiring fence-pickets	524,612	Aug. 14	1110	273 274	68	882
Sammis, John W., Dover, N. J. Bolt	526,266	Sept. 18	1635	384	68	1475
Samper, Ednardo, Paris, France. Machine for extracting fiber from agaves, &c.	521,956	Aug. 21	1681	412	68	997
Sample, Charles, Valley Grove, W. Va. Vehicle-brake	521,329	June 12	1130	266 267	67	1418
Sample, John A., Rankin, Pa. Draw-bar for railway-cars	512,488	Jan. 9	1281	308	66	254
Sampson, James A., New Orleans, La. Brush	532,535	July 3	610	156	68	120
Sampson, David E., East Bend, N. C. Fruit-drier	523,626	July 31	2628	653	68	552
Samuel C. Tatum Company (See Mendenhall, Walter S., assignor.)						
Samuel, Edward, assignor to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Railway-track structure	521,004	June 5	454	108	67	1278
Samuels, Barney, St. Joseph, Mo. Electric railway-signal	521,553	June 19	1433	334	67	1489
Samuels, Marks, New York, N. Y. Folding bed	527,006	Oct. 2	547	134	69	104
Samuels, Marks, New York, N. Y. Folding bed	530,855	Dec. 11	1358	324	69	1477
Sammelson, Alexander. (See Everett and Sammelson.)						
Sanborn, Augusta L. (See Sanborn, Hermann L., assignor.)						
Sanborn, George E. (See Waterston, James, assignor.)						
Sanborn, Hermann L., assignor, by mesne assignments, to A. L. Sanborn, Brooklyn, N. Y. Phonograph	517,072	Mar. 27	2252	533	66	1921

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Sanborn, William H., assignor of one-half to M. A. Bourne, Rutland, Vt. Muzzle for animals.....	522,696	July 10	888	219	68	186
Sanborn, William H., assignor of one-half to M. A. Bourne, Rutland, Vt. Harness.....	530,461	Dec. 4	660	164	69	1336
Sanchez, Hercules, Detroit, Mich. Electrical connection. (Reissue).....	11,397	Jan. 2	874	210	66	165
Sanche, Hercules, Detroit, Mich. Electrical connection. (Reissue).....	11,398	Jan. 2	876	211	66	165
Sanchez, Alberto, Gibara, Cuba. Sugar-cane-transferring device.....	520,271	May 22	2342	568	67	1015
Sandell, Gustav R., assignor to Eagle Pencil Company, New York, N. Y. Pencil.....	525,966	Sept. 11	1129	257	68	1369
Sandeman, Fraser, London, England. Combined photographer's bath and printing-frame.....	513,149	Jan. 23	2369	572	66	545
Sander, Carl B., Chemnitz, Germany. Knitting-machine.....	512,059	Jan. 2	547	129	66	104
Sander, Carl B., Chemnitz, Germany. Warp-knitting machine.....	592,123	June 26	2432	584	67	1691
Sander, Gustav, Brunswick, Germany. Organ.....	512,522	Jan. 9	1327	585	66	262
Sanders, Carew C. (See Stover, William R., assignor.)				320		
Sanders, Frank, assignor to J. Wetter, Brooklyn, N. Y. Numbering-machine.....	515,368	Feb. 27	2309	573	66	1331
Sanders, Frank, assignor to J. Wetter, Brooklyn, N. Y. Numbering-machine.....	520,968	June 5	387	94	67	1268
Sanders, Frank, assignor to J. Wetter, Brooklyn, N. Y. Numbering-machine.....	520,969	June 5	389	95	67	1268
Sanders, Martin W., et al. (See Low and Thompson, assignors.)						
Sanders, Richard D., Eastbourne, England. Manufacture of wire strips or the like by electrodeposition.....	525,800	Sept. 11	835	189	68	1316
Sanders, Richard H., Philadelphia, Pa. Agglomerated iron ore and making same.....	516,710	Mar. 20	1628		66	1788
Sanders, Samuel T., Granite, Mont. Electric alarm.....	514,775	Feb. 13	1335	334	66	1123
Sanders, Thomas, Birmingham, England. Lamp-holder for bicycles.....	528,811	Nov. 6	514	124	69	739
Sanders, W. E., et al. (See Norcross, George A., assignor.)						
Sanders, William C., Jr., Luverne, Ala. Combined corn and cotton planter.....	526,000	Sept. 11	1181	270	68	1379
Sanderson, Edmund L., Waltham, Mass. Drawing-instrument.....	523,733	July 31	2716	672	68	567
Sanderson, Ephraim, Cleveland, Ohio. Suction-box for paper-machines.....	528,261	Oct. 30	2683	647	69	555
Sanderson, George. (See Hudson and Sanderson.)						
Sanderson, Rufus A., and J. C. Earl, Chicago, Ill. Dish-cleaner.....	524,510	Aug. 14	943	232	68	850
Sanderson, Samuel, Waltham, Mass. House construction.....	522,856	July 10	1164	233	68	236
Sandrock, Henry, New York, N. Y. Hose-bridge.....	519,136	May 1	347	82	67	605
Sands, George, Beaver Falls, Pa. Rail-brake.....	526,001	Sept. 11	1183	276	68	1379
Sands, James T., St. Louis, Mo. Apparatus for bleaching smoke.....	526,542	Sept. 25	2127	510	68	1580
Sands, Thomas, Nashua, N. H. Folding cot.....	522,183	June 26	2539	610	67	1712
Sanford, Clifford F., Findlay, Ohio. Gas generator and burner.....	521,822	June 26	1901	456	67	1593
Sanford, James A., Lansing, Mich. Device for adjusting journal-boxes.....	514,837	Feb. 13	1436	361	66	1143
Sanford, Ross M., assignor of one-half to T. Rich, Hobart, N. Y. Stock-watering device.....	526,911	Oct. 2	407	101	69	76
Sanford, Sydney J., Barrie, Canada. Fire telegraphy.....	516,879	Mar. 20	1898	448	66	1839
Sanford, Townsend W. (See Litchfield and Sanford.)						
Sanger, John N., assignor to F. Adee, Brooklyn, N. Y. Siphon mechanism for water-closets.....	529,466	Nov. 20	1711	408	69	997
Sanger, Whiting P. (See Kingsland and Sanger.)						
Sanguinette, David, St. Louis, Mo. Necktie.....	527,129	Oct. 9	744	182	69	153
Saukey, Matthew H. P. R., assignor to Willans & Robinson, Limited, Thames Ditton, England. Expansion-gear for engines.....	521,574	June 19	1471	344	67	1495
Sanner, Henry H., assignor of one-half to J. J. Fisher, Quincy, Ill. Automatic fire-kindler.....	522,353	July 3	304	78	68	60
Santee, Willard N., and J. E. Ryan, Letcher, S. D. Railway-switch.....	524,395	Oct. 20	2213	705	69	595
Santmier, Jacob, Buffalo, N. Y. Tree-transplanter.....	524,404	June 14	110	190	68	821
Saqui, Horatio, London, England. Fastener for doors.....	529,923	Nov. 27	2546	613	69	1159
Sarapata, Paul C., and P. Souvazoglu, Manchester, England. Cigar or cigarette.....	527,724	Oct. 16	1720	415	69	347
Sarfert, Theodor, Chemnitz, Germany. Machine for sponging cloth.....	516,945	Mar. 20	2012	474	66	1860
Sargant, Thomas. (See Willcock, Stephen, assignor.)				475		
Sargent, Albert J., Wilkesburg, Pa. Flexible pipe-joint.....	524,613	Aug. 14	1113	274	68	883
Sargent, Allan C. (See Sargent, Frederick G. and A. C.)						
Sargent & Company. (See Page, Albert A., assignor.)						
Sargent & Company. (See Sparks, William E., assignor.)						
Sargent & Company. (See Wright and Page, assignors.)						
Sargent, Frederick G., Graniteville, Mass. Wool-washing machine.....	521,823	June 26	1902	456	67	1593
Sargent, Frederick G. and A. C., Graniteville, Mass. Fiber-drier.....	521,824	June 26	1904	457	67	1593
Sargent, Frederick G. and A. C., Graniteville, Mass. Fiber-drier.....	525,967	Sept. 11	1131	257	68	1310
Sargent, Frederick G. and A. C., Graniteville, Mass. Fiber-drying machine.....	527,721	Oct. 16	1714	413	69	347
Sargent, Frederick G. and A. C., Graniteville, Mass. Wire apron.....	527,722	Oct. 16	1717	414	69	347
Sargent, Frederick G. and A. C., Graniteville, Mass. Conveyor.....	527,723	Oct. 16	1718	414	69	347
Sargent, Frederick G. and A. C., Graniteville, Mass. Wool-washing machine.....	528,182	Oct. 30	2540	616	69	529
Sargent, John W., Providence, R. I. Eccentric for operating valves of steam-engines.....	516,633	Mar. 13	1491	354	66	1746
Sargent, John W., Providence, R. I. Valve-gear.....	516,634	Mar. 13	1492	355	66	1747
Sargent, John W., and R. H. Rice, Providence, R. I. Valve-gear.....	526,267	Sept. 18	1636	385	68	1475
Sargent, William D., Chicago, Ill. Brake-shoe.....	516,992	Mar. 20	2039	494	66	1874
Sargent, William D., Chicago, Ill. Brake-shoe.....	523,084	July 17	1549	388	68	325
Sargent, Willis L., Norwich, Conn. Lubricant for bicycle chains and bearings.....	519,096	May 1	270		67	587
Sargent's Sons, C. G. (See Rice, David H., assignor.)						
Saripkin, Abraham, Philadelphia, Pa. Pocket-book guard or fastener.....	523,178	July 17	1746	438	68	360
Sarnmark, Axel, assignor of one-half to J. Hall, Torsby, Sweden. Watch-protector.....	525,666	Sept. 4	581	139	68	1258
Sarvent, Joseph G., South Englewood, Ill. Releasing-valve for air-brakes.....	518,199	Apr. 10	1320	330	67	258
Sass, Christian H. F. (See Axldorfer, Gottfried, assignor.)						
Sass, William, Detroit, Mich. Logging-car.....	514,499	Feb. 13	877	223	66	1036
Sasse, Gustus, Vienna, S. D. Safety-fork holder.....	513,202	Jan. 23	2448	592	66	560
Sattelkau, Paul, Philadelphia, Pa. Cigar-holder.....	514,280	Feb. 6	524	128	66	952
Sattelkau, Paul, and H. R. Winkelmann, Brooklyn, N. Y. Storage-reservoir for steam vacuum water-elevators.....	521,390	June 12	1132	267	67	1418
Sattelkau, Paul, and H. R. Winkelmann, Philadelphia, Pa., assignors to Automatic Water Tank Company, Camden, N. J. Steam vacuum water-elevator.....	521,441	June 12	1228	290	67	1435
Sattley, Archibald. (See Sattley, Marshall and A.)				291		
Sattley Manufacturing Company. (See Sattley, Marshall and A., assignors.)						
Sattley, Marshall and A., assignors to Sattley Manufacturing Company, Springfield, Ill. Draft-equalizer.....	525,667	Sept. 4	582	139	68	1258

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Sandek, Jacob, Pittsburg, Pa. Identification device	513,150*	Jan. 23	2370	572	66	545
Sauer, Emil L., Chicago, Ill. Steam-engine valve	529,841	Nov. 27	2341	557	69	1122
Sauer, Friedrich, and C. Heintzschel, Berlin, Germany. Electric alarm	514,202	Feb. 6	388	92	66	926
Sauer, Philip, Pomeroy, Ohio. Coal-drill	527,814	Oct. 23	1870	449	69	392
Sauerburger, Joseph, St. Louis, Mo. Sash-balance	526,945	Oct. 2	453	113	69	86
Saulmann, Willy, Berlin, Germany. Fiber-drying apparatus	526,201	Sept. 18	1536	{ 360 361 }	{ 63 63 }	1455
Saunders, Aleck, Goderich, Canada. Hot-water generator for stoves	514,732	Feb. 13	1271	317	66	1110
Saunders, Aleck, and J. Story, Goderich, Canada. Wood-carving machine	514,731	Feb. 13	1270	317	66	1110
Saunders, Henry R., Nassau, New Providence. Holder for pins or the like	515,369	Feb. 27	2311	573	66	1331
Saunders, Ira J., New York, N. Y. Automatic button-fastening machine	529,139	Nov. 13	1104	{ 257 268 }	{ 69 69 }	868
Saunders, J. Ashton, <i>et al.</i> (See Banwell, James, assignor.)						
Saunders, Theodore, assignor of one-half to E. Tweedy, Danbury, Conn. Gasket	519,413	May 8	868	210	67	718
Saur, William, assignor of two-thirds to G. H. Hammer, W. H. Yeatman, and J. J. Beck, Washington, D. C. Steam-boiler	520,742	May 29	3126	757	67	1176
Sanbrey, George J., assignor of one-half to Capital City Carriage Company, Columbus, Ohio. Carriage-body	514,776	Feb. 13	1336*	{ 334 335 }	{ 66 66 }	1123
Saussure, René de. (See Coleman and Saussure.)						
Santers, Anthony R., Cleveland, Ohio. Bearing for clothes-wringers	525,722	Sept. 11	696	161	68	1292
Sautter, John R., San Francisco, Cal. Door-bell	518,077	Apr. 10	1100	278	67	217
Savacool, George H., Newton, N. J. Folding box	524,910	Aug. 21	1601	391	68	983
Savage, Charles G., assignor of two-thirds to J. L. Ricketts and G. C. Osborne, Philadelphia, Pa. Electric gas-lighter	529,313	Nov. 13	1421	342	69	925
Savage, Charles M., Warren, Pa. Electrical retoucher	528,564	Nov. 6	63	17	69	658
Savage, Ernest L., Walpole, Mass. Stuff-chest for paper-mills	515,941	Mar. 6	326	78	66	1514
Savage, Granville L., and W. H. Harrison, New York, N. Y. Letter-box	521,993	June 26	2227	535	67	1653
Savage, Sylvester S., Harrison, N. J. Apparatus for preserving fruit	531,067	Dec. 18	1719	409	69	1558
Savage, Thomas N., Walnut Springs, Tex. Tongue-support	515,060	Feb. 20	1784	450	66	1220
Savage, William O., assignor of two-thirds to C. Ditsch and J. A. Cady, Belleville, Mich. Liquid-cooler	522,721	July 10	934	233	68	195
Savill, Edward, assignor of two-thirds to J. W. Newman and J. C. Oliver, Lexington, Ky. Air-pump	513,535	Jan. 30	3018	745	66	704
Savill, Joseph H., Philadelphia, Pa. Coupling for water-closets	526,088	Sept. 18	1334	310	68	1419
Savill, Joseph H., Philadelphia, Pa. Coupling for water-closets	526,089	Sept. 18	1335	310	68	1419
Sawade, Gustave C., assignor of two-thirds to P. M. Kling and G. J. Kobusch, St. Louis, Mo. Curtain guide and stop	519,647	May 8	1283	307	67	791
Sawer, James F., and J. L. Purves, Manchester, England. Coin-controlled vending apparatus	524,511	Aug. 14	945	{ 233 234 }	{ 68 68 }	850
Sawyer, Albert A. (See Nugent, William W., assignor.)						
Sawyer, Albert A., Gandy, Nebr., assignor of one-half to W. W. Nugent, Chicago, Ill. Flat-iron rest or holder	514,500	Feb. 13.	879	223	66	1036
Sawyer, Charles E., Boston, Mass. Device for counting and separating tags, cards, &c.	512,060	Jan. 2	550	{ 130 131 432 }	{ 66 66 }	105
Sawyer, Charles E., Boston, Mass. Machine for making tags and counting and separating same into piles	515,024	Feb. 20	1721	{ 433 434 435 436 }	{ 66 66 }	1210
Sawyer, Charles H., <i>et al.</i> (See Simpson, John A., assignor.)						
Sawyer, Enoch. (See Davis and Sawyer.)						
Sawyer, Henry G., Carpentersville, Ill. Mechanism for shaping the welding edges of plow-points	530,204	Dec. 4	223	55, 56	69	1256
Sawyer, Howard M., <i>et al.</i> (See Simpson, John A., assignor.)						
Sawyer, Samuel B. (See Deane, Herbert C., assignor.)						
Sawyer, Samuel P., Valley View, Tex. Cotton-seed planter	516,613	Mar. 13	1456	344	66	1740
Sawyer, Victory L. (See Schoenmehl, Charles B., assignor.)						
Sawyer, Willard N., assignor to B. D. Whitney, Winchendon, Mass. Feed-roller for wood-planing machines	519,739	May 15	1493	345	67	832
Saxe, John L., Waterbury, Conn. Suspension fly-fan	515,972	Mar. 6	386	89	66	1524
Saxton, Elwin F., St. Joseph, Mo. Metallic post and fastener for wire fences	523,799	July 31	2832	704	68	589
Saxton, Lionel D. (See Latham, Ephraim, assignor.)						
Saxton, Thomas G. (See Feiner and Saxton.)						
Sayer, Frederick P., assignor of one-third to G. F. Woodley, Providence, R. I. Sash-fastener	512,330	Jan. 9	993	243	66	200
Sayers, William B., Glenwood, Bearsden, Scotland. Armature for dynamo-electric machines or motors	516,553	Mar. 13	1354	{ 322 323 }	{ 66 66 }	1721
Sayers, William B., Glasgow, Scotland. Dynamo-electric machine	524,119	Aug. 7	254	59, 60	68	708
Sayre & Fisher Company. (See Macarthy, Fred, assignor.)						
Saylor, A. R., <i>et al.</i> (See Manderfield, George J., assignor.)						
Saylor, August, <i>et al.</i> (See Howell, John L., assignor.)						
Sayward, William P. (See Pettingell, Benjamin C., assignor.)						
Scaife, William L., Allegheny, Pa. Hydraulic crane	523,445	July 24	2197	{ 553 554 }	{ 68 68 }	458
Scales, Edward. (See Bronsdon, Edward, assignor.)						
Scales, John C., Chicago, Ill. Hatchet	516,772	Mar. 20	1729	407	66	1805
Scales, John C., Chicago, Ill. Hatchet	517,934	Apr. 10	848	213	67	177
Scales, William S., Everett, assignor to J. B. Humphrey and J. H. Clarke, Somerville, Mass. Raisin-seeder	511,803	Jan. 2	88	22	66	20
Scamman, Charles F., Deering, Me. Toothpick-machine	521,734	June 19	1740	413	67	1547
Scamman, Charles F., Deering, Me. Apparatus for handling and packing toothpicks	521,736	June 19	1743	414	67	1547
Scamman, Charles F., and H. P. Churchill, Deering, Me. Apparatus for handling and packing toothpicks	521,735	June 19	1741	413	67	1547
Scanlan, Edward, Louisville, Ky., and J. Zipp, New Albany, Ind. Combined fireplace and grate	528,610	Nov. 6	150	37	69	674
Scanlan, Edward, F. W. Keifel, Jr., Louisville, Ky., and J. Zipp, New Albany, Ind. Fireplace and grate	530,627	Dec. 11	983	{ 241 242 }	{ 69 69 }	1411
Scanlan, Thomas. (See Magovern and Scanlan.)						
Scanlon, Patrick, Chicago, Ill. Drainage system	520,146	May 22	2125	519	67	975
Scaramanga, Andrew P. and E. P., London, England. Cigarette-machine	522,620	July 10	771	{ 194 195 }	{ 68 68 }	165
Scaramanga, Andrew P. and E. P., London, England. Cigarette-machine	525,060	Aug. 23	1896	{ 464 465 }	{ 68 68 }	1053
Scaramanga, Eustratio P. (See Scaramanga, Andrew P. and E. P.)						
Scarborough, Josiah S., assignor of one-half to O. Lusk, New Philadelphia, Ohio. Combined nut-wrench and lubricator	521,421	June 12	1181	281	67	1427

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Scarinci, Beniamino, Philadelphia, Pa. Slipper.....	518,078	Apr. 10	1101	279	67	217
Scarinci, Beniamino, Philadelphia, Pa. Shoe.....	518,079	Apr. 10	1102	279	67	217
Scarinci, Beniamino, Philadelphia, Pa. Shoe.....	519,556	May 8	1123	270	67	763
Scarinci, Beniamino, Philadelphia, Pa. Shoe.....	529,964	Nov. 27	2549	614	69	1159
Scarlett, John W. W. (See Yates, Samuel B., assignor.)						
Scarritt Furniture Company. (See Hoffman, Samuel, assignor.)						
Scarritt Furniture Company. (See Weatherly, Robert H., assignor.)						
Scarritt, Sanford G. (See Little, Peter, assignor.)						
Scarritt, Sanford G., St. Louis, Mo. Spring-seat.....	516,773	Mar. 20	1730	407	66	1805
Scates, George R., assignor to one-half to E. S. Rogers, Knoxville, Tenn. Dry-air closet.....	523,379	July 24	2081	524	68	438
Scates, George R., assignor to S. H. George, G. R. Scates, M.D. and S. Arnold, Knoxville, Tenn. Open-fireplace furnace or heater.....	515,942	Mar. 6	327	78	66	1514
Scattergood, Charles F., Albany, N. Y. Electrical annunciator.....	514,501	Feb. 13	831	224	66	1037
Seacree, Jefferson B., Chillicothe, Ohio, assignor to B. D. Miner, Indianapolis, Ind. Invalid- hed machine.....	520,576	May 29	2845	687	67	1125
Scettrini, George H., and G. Cade, assignors to H. K. Bridger, London, England. Sewing- machine.....	527,348	Oct. 9	1098	{ 267 268 }	{ 69 69 }	{ 218 218 }
Schaadt, Henry S., St. Louis, Mo., assignor to Bradley Stencil Machine Company, of Missouri. Die-punch and process of and means for making same.....	531,600	Dec. 25	2684	644	69	1755
Schaag, August, Berlin, Germany. Tinning iron castings.....	525,471	Sept. 4	261		68	1199
Schaahe, Henry, San Francisco, Cal. Fluxing attachment for seaming-machines.....	525,625	Sept. 4	507	{ 122 123 }	{ 68 68 }	{ 1246 1246 }
Schaahe, Henry, San Francisco, Cal. Crimping-machine for can-bodies.....	528,305	Oct. 30	2759	667	69	568
Schaahe, Henry, San Francisco, Cal. Machine for crimping can-head flanges.....	528,306	Oct. 30	2762	667	69	568
Schaal, Jacob, et al. (See Zanger, Theodor, assignor.)						
Schaaer, Martin, Boiling Springs, N. J. Toy vehicle.....	522,741	July 10	994	246	68	204
Schachel, John L., assignor to J. Blum, New York, N. Y. Game-table.....	518,860	Apr. 24	2453	608	67	492
Schad, Barnhard, assignor to five-sixths to J. C. and F. J. Shults, H. C. Tiffany, and L. M. Hackley, Batavia, N. Y. Vehicle-hub.....	512,666	Jan. 9	1550	372	66	305
Schade, John, Brooklyn, N. Y. Lock.....	528,114	Oct. 23	2423	586	69	492
Schade, Julius, Los Angeles, Cal. Ladder.....	523,011	July 17	1439	360	68	303
Schaefer, Edmund. (See Floyd, John, assignor.)						
Schaefer, Fred, Minneapolis, Minn. Potato-harvester.....	515,171	Feb. 20	1961	459	66	1253
Schaefer, Fred, Minneapolis, Minn. Level and key-seat rule.....	516,024	Mar. 6	474	110	66	1540
Schaefer, George N., et al. (See Schaefer, John H., assignor.)						
Schaefer, John H., assignor to G. N. and J. H. Schaefer, Jr., Baltimore, Md. Meat-mix- ing machine.....	523,646	July 24	2542	638	68	521
Schaefer, John V., Jr. (See Lebeau, Telesphar L., assignor.)						
Schaefer, Louise, Oneida, N. Y. Method of and apparatus for marking patterns.....	519,927	May 15	1727	424	67	888
Schaefer, Louise, Oneida, N. Y. Marking-tool.....	522,433	July 3	457	115	68	91
Schaefer, Peter, assignor to one-half to G. W. Bunce, St. Peter, Minn. Veterinary drench- ing-bottle.....	521,596	June 19	1512	354	67	1502
Schaefer, Remigius, New York, N. Y. Vent-bung.....	515,095	Feb. 20	1831	462	66	1230
Schaeffer, Elias. (See Rotter, Herman, assignor.)						
Schaeffer, Henri N. P., Lowell, Mass. Soluble alizarin blue.....	527,457	Oct. 16	1292		69	270
Schaeffer, Henry, Durango, Colo. Car-coupling.....	527,376	Oct. 9	1148	282	69	228
Schaeffer, Rosa, New York, N. Y. Automatic shut-off mechanism for water-tanks.....	530,659	Dec. 11	1047	255	69	1420
Schaefer, Christian E. (See Connolly and Schaefer.)						
Schaefer, Edward, and H. A. Levy, New York, N. Y. Stamp-affixing machine.....	516,511	Mar. 13	1287	306	66	1708
Schaefer, Frank, Philadelphia, Pa. Machine for coiling or winding match-splints.....	512,061	Jan. 2	552	131	66	105
Schaefer, Frank, Philadelphia, Pa. Machine for cutting match-splints.....	512,062	Jan. 2	555	{ 131 132 }	{ 66 66 }	{ 106 106 }
Schaefer, Frederick, London England. Riding-habit.....	521,478	June 19	1305	304	67	1466
Schäfer, Julius. (See Stutzer and Schäfer.)						
Schaefer, Theodore, Maroa, Ill. Combined match-box and ash-receiver.....	523,599	July 24	2463	618	68	506
Schaff, Peter. (See Gleixner and Schaff.)						
Schäffer & Budenberg. (See Carpenter, Rolla C., assignor.)						
Schaffer, Morse B., St. Louis, Mo. Car-truck.....	516,993	Mar. 20	2091	495	66	1874
Schaffhirt, William G., Washington, D. C. Roundabout.....	511,910	Jan. 2	310	72	66	60
Schagen, Gerhard, Eschweiler, assignor to M. Heymann, Aix-la-Chapelle, Germany. Writ- ing-pen.....	530,604	Dec. 11	948	233	69	1404
Schaibly, Theobald E. J. and W., Philadelphia, Pa. Grip-testing machine.....	514,281	Feb. 6	525	{ 129 130 }	{ 66 66 }	{ 932 932 }
Schaibly, Walter. (See Schaibly, Theobald E. J. and W.)						
Schairer, George E., Saline, Mich. Sash-holder.....	530,660	Dec. 11	1049	255	69	1421
Schairer, John J., assignor to seven-twentieths to A. O. Hubbard, Clint, W. W. Fink, and F. E. Hunter, El Paso, Tex. Car-coupling.....	526,202	Sept. 18	1538	361	68	1455
Schalcke, Franz, Pittsburg, Pa. Car-coupling.....	527,725	Oct. 16	1721	415	69	348
Schall, Michael. (See Hoffheins, Franklin G., assignor.)						
Schaller, Jules, Paris, Franco. Ice-cream freezer.....	518,280	Apr. 17	1454	364	67	299
Schambrue, John, assignor to L. H. Mace & Co., New York, N. Y. Refrigerator-shelf.....	525,723	Sept. 11	697	162	68	1292
Schanck, Ephraim L., Lewis Centre, Ohio. Wire fence.....	519,928	May 15	1728	424	67	888
Schanck, George H., Libertyville, Ill. Corn-harvester.....	512,124	Jan. 2	656	157	66	126
Schanck, Henry L., Holmdel, N. J. Means for increasing crank-throw of steam-engines.....	526,584	Sept. 25	2189	523	68	1591
Scharar, Christian H., Scranton, Pa. Centrifugal separator.....	517,363	Mar. 27	2733	{ 642 643 }	{ 66 66 }	{ 2016 2016 }
Scharf, Hermann, Halle-on-the-Saale, Germany. Safety-belt.....	530,799	Dec. 11	1271	307	69	1462
Scharff, Ernst, Frankfurt-on-the-Main, Germany. Safety-razor.....	512,125	Jan. 2	659	157	66	126
Scharling, John H., Newark, N. J. Atomizer.....	515,504	Feb. 27	2519	624	66	1370
Schatz, Adam E., New York, N. Y. Canal-boat propeller-rail.....	511,911	Jan. 2	313	73	66	60
Schanb, Eduard, Paterson, N. J. Curtain-fixture.....	515,172	Feb. 20	1963	490	66	1254
Schauer, Michael G., and A. A. Bartlett, Pipe Stone, Minn. Band-cutter and feeder for thrashers.....	528,396	Oct. 30	2914	705	69	595
Schaum, Otto W., Philadelphia, Pa. Jacquard apparatus for looms.....	531,390	Dec. 25	2319	553	69	1684
Schaum, Otto W., and C. Alvord, Philadelphia, Pa. Driving-gear for bicycles.....	530,058	Nov. 27	2741	657	69	1198
Schauman, John, Anaheim, Cal. Cultivator.....	521,272	June 12	919	218	67	1377
Scheeffer, Gustave A., Peoria, Ill. Electric meter.....	522,674	July 10	852	212	68	181
Scheeffer, Gustave A., assignor to Diamond Electric Company, Peoria, Ill. Electric meter.....	530,351	Dec. 4	488	121	69	1303
Scheele, Henry and J. P., and H. A. Rust, Milwaukee, Wis. Trolley.....	521,184	June 12	768	180	67	1349
Scheele, John P. (See Scheele and Rust.)						
Scheer, William H., Frankfort, Ill. Hay-loader.....	512,908	Jan. 16	1996	473	66	405
Scheerer, Wilhelm, Tuttlingen, Germany. Inhaling apparatus.....	516,841	Mar. 20	1839	435	66	1828
Scheerer, Wilhelm, Tuttlingen, Germany. Speculum.....	516,842	Mar. 20	1840	435	66	1828
Scheerer, Wilhelm, Tuttlingen, Germany. Surgical instrument.....	521,555	June 19	1439	334	67	1490

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Scheetz, Charles, Hanover, Kans. Corn-harvester	530,352	Dec. 4	490	121	69	1304
Scheffbauer, Rupert, Paterson, N. J. Combined hanger and automatic switch for trolley-wires	522,621	July 10	773	195	68	166
Scheffers, Louis W., St. Louis, Mo. Lamp or lantern	520,866	June 5	203	45, 46	67	1234
Scheffel, Wilhelm, Remscheid, Germany. Meat-chopping machine	517,148	Mar. 27	2371	560	66	1945
Scheffler, Frederick A. (See Scheffler, Theodore, assignor.)						
Scheffler, Theodore, Paterson, assignor of one-half to F. A. Scheffler, Passaic, N. J. Cooling refrigerators	523,412	July 24	2140	537	68	448
Scheibel, Richard, assignor of one-half to P. M. King, St. Louis, Mo. Animal-trap	530,723	Dec. 11	1152	279	69	1439
Scheid, Adam. (See Christy, William T., assignor.)						
Scheithaner, Arnold, Berlin, Germany. Machine for cutting meat or other substances	513,342	Jan. 23	2673	648	66	604
Scheldrup, A. F., et al. (See Lilleberg, Charles L., assignor.)						
Schell, Absalom, assignor of one-half to C. R. McClave, Elmira, N. Y. Boiler-cleaner	516,979	Mar. 20	2064	488	66	1870
Schell, Henry A. (See Billing, Kaspar, assignor.)						
Schelp, Fred, Jr., St. Louis, Mo. Thill-coupling	520,834	June 5	147	32	67	1224
Schenck, Charles S., New York, N. Y. Conveyer	524,842	Aug. 21	1503	{ 367 368 }	68	966
Schenck, John D. P., Nashville, Tenn. Air-brake	524,073	Aug. 7	173	40	68	694
Schenck, John D. P., Newark, N. J. Air-brake	531,137	Dec. 13	1854	440	69	1583
Schenck, Marcus P., Springfield, Mass. Electric governor	522,920	July 10	1272	315	68	256
Schenck, Silvester B., Newark, N. J. Fertilizer	517,486	Apr. 3	119	.....	67	25
Schenck, William T., Mareo, Ill. Shield for knoter-fingers of binders	526,463	Sept. 25	2016	480	68	1559
Schendzelos, Paul, Duellm, Minn. Hand corn-planter	517,487	Apr. 3	120	27	67	25
Scherb, Victor J., North Pasadena, Cal. Animal-trap	531,571	Dec. 25	2633	631	69	1745
Scherer, Albert G., assignor to Excelsior Steel Furnace Company, Chicago, Ill. Machine for seaming sectional sheet-metal pipes	523,687	July 31	2630	653	68	552
Schermerhorn, Alexander B., Athens, Pa. Rotary lawn-mower	515,795	Mar. 6	108	26	66	1474
Schermerhorn, George W., Philadelphia, Pa. Vessel	518,702	Apr. 24	2194	543	67	446
Schermuly, William, London, England. Differential hoisting-tackle	511,863	Jan. 2	185	46, 47	66	39
Schetzl, Marx P., San Francisco, Cal. Tap or faucet	520,327	Sept. 18	1744	413	68	1498
Scheuer, Max, et al., executors. (See Scheuer, Simon.)						
Scheuer, Max, New York, N. Y. Pocket-book	515,096	Feb. 20	1833	462	66	1230
Scheuer, Ralph, et al., executors. (See Scheuer, Simon.)						
Scheuer, Simon, deceased, M. and R. Scheuer, New York, N. Y., executors. Frame for pocket-books, purses, or satchels	527,512	Oct. 16	1376	335	69	284
Scheuerecker, Joseph, Indianapolis, Ind., assignor of seven-eighths to W. A. Miles and O. H. Perry, Columbus, Ohio, E. E. Perry, Indianapolis, Ind., and J. W. Hahn, Toledo, Ohio. Apparatus for manufacturing ice and for refrigerating	518,791	Apr. 24	2348	582	67	473
Schevey, Alvin E., Mayfair, Ill. Cotton-chopper	530,724	Dec. 11	1153	280	69	1439
Schick, Charles. (See Liston and Schick.)						
Schier, Oscar B. W., Baltimore, Md. Receptacle for sterilizing purposes	522,235	July 3	103	24	68	20
Schierholz, August H., San Francisco, Cal. Ore-crusher	531,068	Dec. 18	1721	{ 409 410 }	69	1559
Schifferdecker, Charles, Fort Assinaboine, Mont. Target and indicator	521,049	June 5	531	125	67	1293
Schifferly, Conrad, Fort Wayne, Ind. Fruit-can	521,921	June 26	2074	498	67	1626
Schill, John G., Jersey City, N. J. Window-screen	530,353	Dec. 4	491	121	69	1304
Schilling, Charles R. (See Schraubstadter and Schilling.)						
Schimmkatt, Carl G. (See Eberhard and Schimmkatt.)						
Schimmeyer, Max. (See Sowatsky and Schimmeyer.)						
Schindel, Samuel M., Hagerstown, Md. Shield for pneumatic tires	521,005	June 5	454	108	67	1279
Schindel, Samuel M., Hagerstown, Md. Shield for pneumatic tires	521,006	June 5	456	108	67	1279
Schindel, Samuel M., Hagerstown, Md. Armor for pneumatic tires	526,846	Oct. 2	288	70	69	55
Schinke, Max G., Milwaukee, Wis. Drawbridge	517,809	Apr. 3	657	{ 164 165 }	67	127
Schinner, Augustin F., Milwaukee, Wis. Railway-switch	514,037	Feb. 6	101	25	66	873
Schinner, Augustin F., Milwaukee, Wis. Railway-switch	527,293	Oct. 9	1012	246	69	202
Schinner, Augustin F., Milwaukee, Wis. Track-switch for electric railways	527,294	Oct. 9	1015	247	69	203
Schirman, Moritz, Baltimore, Md. Talking-board	520,616	May 29	2907	702	67	1137
Schirmer, Valentine, New York, N. Y. Sash-balance	516,687	Mar. 20	1587	379	66	1781
Schirza, Julius, assignor of seven-twentieths to C. Thier, Pittsburg, Pa. Nut-lock	513,203	Jan. 23	2449	592	66	560
Schisgall, Solomon, Waterbury, Conn. Watch-winding	526,871	Oct. 2	335	82, 83	69	63
Schjerling, Ludvig A. (See Druschky and Schjerling.)						
Schlangen, Simon, and I. Neumann, Chicago, Ill. Bung-stopper and bung-bush	526,464	Sept. 25	2017	450	68	1559
Schlarbaum, John C., San Francisco, Cal. Compound pocket implement	515,973	Mar. 6	389	90	66	1525
Schlatter, Moses, Burrton, Kans. Feed and hand-cutting attachment for thrashing-machines	521,674	June 19	1637	{ 383 384 }	67	1527
Schlatter, Moses, Inman, Kans. Floor-clamp	528,033	Oct. 23	2284	551	69	466
Schlegel, Robert A., St. Louis, Mo. Manufacturing signs	530,354	Dec. 4	492	122	69	1304
Schlegelmilch, George E. (See Welch, Robert K., assignor.)						
Schleicher, Andrew J., et al. (See Schleicher, Edward G., assignor.)						
Schleicher, Edward G., Stamford, Conn. Wheel for vehicles	527,727	Oct. 16	1724	416	69	348
Schleicher, Edward G., assignor to himself, A. J. Schleicher, Stamford, Conn., and G. and J. C. Schleicher, New York, N. Y. Piano-sounding board	522,124	June 26	2435	586	67	1691
Schleicher, Erhart, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Basic yellow dye	516,577	Mar. 13	1397	.....	66	1729
Schleicher, George, et al. (See Schleicher, Edward G., assignor.)						
Schleicher, John C., et al. (See Schleicher, Edward G., assignor.)						
Schleicher, Otto, Magdeburg, Germany. Steering-gear for vessels	528,183	Oct. 30	2542	{ 616 617 }	69	529
Schleicher, Robert, Louisville, Ky. Machine for manufacturing boxes	515,026	Feb. 20	1732	437	66	1211
Schleiningner, Ferdinand R., New York, N. Y. Game apparatus	526,946	Oct. 2	459	113	69	86
Schlemmer, Oliver, Cincinnati, Ohio. Fitting for vents	526,912	Oct. 2	410	102	69	77
Schlesinger, Julius M., San Francisco, Cal. Lace, veiling, or ribbon holder	528,447	Oct. 30	3000	725	69	610
Schlientz, Joseph J., and J. F. Fink, Defiance, Ohio. Caster	528,210	Oct. 30	2597	627	69	538
Schlieper, John E., Pittsburg, Pa., assignor to Stirling Company, Chicago, Ill. Steam-boiler	526,947	Oct. 2	460	113	69	87
Schlieper, John E., and J. H. Harrison; said Harrison assignor to W. D. Webb, Pittsburg, Pa. Smokeless furnace and stoker	519,663	May 8	1341	{ 323 324 }	67	802
Schloer, Charles A., Camden, N. J. Support for bicycles	531,338	Dec. 25	2227	532	69	1666
Schloss, Nathan, Baltimore, Md. Coat	527,561	Oct. 16	1452	353	69	298
Schlusser, Elias E., Williamsport, Ind. Corn-planter	526,749	Oct. 2	132	31	69	26
Schlusser, Adolph H., Oakland, Cal. Gas-regulator for water-heaters	514,428	Feb. 6	744	189	66	994
Schlusser, Adolph H. and T. A., Oakland, Cal. Apparatus for agitating and discharging liquids	512,489	Jan. 9	1282	308	66	254
Schluter, Adolph H. and T. A., Oakland, Cal. Self-regulating discharge for closed vessels	517,305	Mar. 27	2639	620	66	1997
Schluter, Adolph H. and T. A., Oakland, Cal. Liquid containing and discharging device	519,478	May 8	976	236	67	737

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Schlueter, Theodore A. (See Schneter, Adolph H. and T. A.)						
Schluns, Fredrick A., Milton, Mass. Coiled sliding door	514,966	Feb. 20	1637	410	66	1195
Schmadeke, John F. (See Thompson and Schmadeke.)						
Schmadeke, John F., Brooklyn, N. Y. Coal-chute regulator	518,653	Apr. 24	2103	525	67	429
Schmall, Octavius B., Cincinnati, Ohio. Building-block	513,423	Jan. 23	2796	685	66	628
Schmaltz, Mikle, assignor of one-half to W. J. Wanless, Bay City, Mich. Propeller-wheel	512,751	Jan. 16	1706	407	66	349
Schmelz, Victor, Sylvan Lake, Fla. Box-strap	522,354	July 3	305	78	68	61
Schmid, Albert, Allegheny, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Field-magnet for electric machines	519,097	May 1	270	64	67	587
Schmid, Albert, Allegheny, and B. G. Lamme, assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Self-exciting constant-potential electric generator	519,098	May 1	271	64	67	588
Schmid, Charles, assignor to American Valve and Governor Company, Chicago, Ill. Valve mechanism for engines	523,742	Nov. 6	378	92	69	715
Schmid, Jakob, assignor to Society of Chemical Industry in Basle, Basle, Switzerland. Blue-black disazo dye	525,626	Sept. 4	509		68	1246
Schmid, Jakob, and J. Bachelut, assignors to Society of Chemical Industry in Basle, Basle, Switzerland. Blue dye	519,971	May 15	1804		67	902
Schmid, Jakob, and J. Bachelut, assignors to Society of Chemical Industry in Basle, Basle, Switzerland. Blue basic dye	525,627	Sept. 4	510		68	1246
Schmid, Wolfgang, Munich, Germany. Brake	516,122	Mar. 6	620	145	66	1568
Schmidt, Albrecht, Berlin, Germany. Hypo-eliminator	530,965	Dec. 18	1545		69	1527
Schmidt, August L., Dusseldorf, Germany. Vehicle-wheel	514,502	Feb. 13	882	224	66	1037
Schmidt, Charles G., Cincinnati, Ohio. Switch for overhead trolley tracks	519,351	May 8	763	188	67	699
Schmidt, Charles G., Cincinnati, Ohio. Switch for overhead-trolley tracks	530,661	Dec. 11	1050	256	69	1421
Schmidt, Charles R. (See Mackin and Schmidt.)						
Schmidt, Charles R., Baltimore, Md. Core-making machine	519,006	May 1	109	26, 27	67	556
Schmidt, Charles R., Baltimore, Md. Water-closet. (Reissne)	11,441	Sept. 11	1203	278	68	1383
Schmidt, Christian A., New York, N. Y. Woven chenille fabric	513,284	Jan. 23	2599	627	66	589
Schmidt, Edward D., Cuyahoga Falls, Ohio. Friction-clutch	529,755	Nov. 27	2190	522	69	1093
Schmidt, Frank F. (See Cookerly, Charles E., assignor.)						
Schmidt, Frederick M. (See Gerry and Schmidt.)						
Schmidt, George C., assignor of one-half to A. Harman, Baltimore, Md. Safety car-fender	519,648	May 8	1284	307	67	791
Schmidt, Gottlieb, et al. (See Parkinson, John, Sr., assignor.)						
Schmidt, Henry, Elgin, Ill. Cooper's lathe	525,160	Aug. 28	2076	506	68	1083
Schmidt, Henry, and C. J. Werner, New York, N. Y. Cigar-bunching machine	530,554	Dec. 11	862	213 } 214 }	69	1389
Schmidt, Henry M., Saginaw, Mich. Safe-door hook-rack	515,335	Feb. 27	2577	638	66	1381
Schmidt, Joseph, et al. (See Reinhard, Thomas J., assignor.)						
Schmidt, Julius, and J. Weitzel, Ludlow, Ky. Sheet-metal pipe	525,061	Aug. 28	1897	465	68	1053
Schmidt, Nickolaus. (See Holtmann and Schmidt.)						
Schmidt, O. M., et al. (See Farmer, John R., assignor.)						
Schmidt, Oscar K., St. Louis, Mo., assignor of two-thirds to R. Klau and G. Pohligh, Philadelphia, Pa. Drill-clutch	514,165	Feb. 6	311	74	66	911
Schmidt, Philip J., and G. Weber, Hoboken, N. J. Car-replacer	515,620	Feb. 27	2709	674	66	1408
Schmidt, Robert H., Hohenstein, Germany. Folding feed-box	514,203	Feb. 6	389	92	66	927
Schmidt, Theodore F. W., assignor of one-half to Dayton Paper Novelty Company, Dayton, Ohio. Bottle-wrapper	515,721	Feb. 27	2874	717	66	1440
Schmidt, Theodore F. W., assignor of one-half to Dayton Paper Novelty Company, Dayton, Ohio. Paper box	518,898	Apr. 24	2530	625	67	507
Schmidt, Theodore F. W., assignor of one-half to Dayton Paper Novelty Company, Dayton, Ohio. Egg-case	518,899	Apr. 24	2530	625	67	507
Schmidt, Theodore F. W., assignor to Dayton Paper Novelty Company, Dayton, Ohio. Bottle-wrapper	524,219	Aug. 7	430	102	68	740
Schmidt, W. C. (See Titus, John C., assignor.)						
Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, Germany. Superheating steam	518,162	Apr. 10	1238	311	67	241
Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, Germany. Generation of steam	529,754	Nov. 27	2188	522	69	1093
Schmiedeberg, Oswald, Strasburg, assignor to C. F. Boehringer & Soehne, Waldhof, Germany. Making compounds of iron and albumin	523,688	July 31	2633		68	553
Schmiedl, Anton I., assignor of one-half to J. Mundell, Philadelphia, Pa. Shoe-heading machine	519,162	May 1	400	96	67	615
Schmiedl, Anton I., assignor of one-half to J. Mundell, Philadelphia, Pa. Seam-hammering device for shoe-uppers	525,161	Aug. 28	2080	507	68	1084
Schmitt, Frederick E., assignor to Milwaukee Sander Manufacturing Company, Milwaukee, Wis. Polishing-cylinder for sandpapering machines	525,087	Aug. 29	1945	475 } 476 }	68	1061
Schmitt, Frederick E., assignor to Milwaukee Sander Manufacturing Company, Milwaukee, Wis. Cylinder-adjusting mechanism for polishing machines	525,472	Sept. 4	262	63, 64	68	1200
Schmitt, George, assignor to P. Sherrer and M. A. Short, Cleveland, Ohio. Barrel-pitching apparatus	526,504	Sept. 25	2072	493	68	1370
Schmitt, George, assignor to P. Sherrer and M. A. Short, Cleveland, Ohio. Barrel-pitching apparatus	526,660	Sept. 25	2322	553 } 556 }	68	1616
Schmitt, Louis H., assignor of one-half to G. E. Sternberg, New York, N. Y. Tool-handle	522,031	June 26	2239	548	67	1664
Schmitz, Egon L., New York, N. Y. Safety-razor	519,479	May 8	978	236	67	737
Schmitz, Egon L., New York, N. Y. Razor-stropping device	520,272	May 22	2344	569	67	1015
Schmitz, Engelbert W., and J. Wallmann, Berlin, Germany. Car-conpling	516,123	Mar. 6	623	145 } 146 }	66	1569
Schmitz, Ernest, and J. Mendenhall, Chicago, Ill. Starter and propeller for electric cars	513,598	Jan. 30	3120	767	66	723
Schmohl, John C., Newberry, Pa. Sliding door	511,404	Jan. 2	89	22, 23	66	20
Schmoll, Armand. (See Schmoll, Lucien and A.)						
Schmoll, Lucien and A., Newark, N. J. Polishing and staining machine	527,889	Oct. 23	2014	483	69	416
Schnarr, Henry G., New York, N. Y. Extension-table	529,140	Nov. 13	1108	268 } 269 }	69	868
Schnarr, Joseph, et al. (See Cook, George, assignor.)						
Schnautz, Frederick W., New York, N. Y. Grate-bar	524,866	Aug. 21	1537	375	68	972
Schneider, August, Lexington, Ky., assignor of one-half to C. Newbold, Washington, D. C. Billiard-cue-tip fastening	522,305	July 3	225	60	68	45
Schneider, August, and D. W. Bromley, assignors of one-third to B. McClelland, Lexington, Ky. Bottle-stopper	527,726	Oct. 16	1722	416	69	348
Schneider, Charles W. (See Van Berkel and Fliess, assignors.)						
Schneider, Franz S. E., Fulda, Germany. Apparatus for transforming continuous electric currents into alternating currents	524,911	Aug. 21	1602	392	68	984
Schneider, G., et al. (See Marquart, Rudolf, assignor.)						
Schneider, George L., assignor of seven-eighths to W. J. Pattosien, F. L. Waibel, C. Fisher, G. Brandt, G. A. Paul, F. Brandt, and A. R. Paul, San Francisco, Cal. Electric advertising or signaling apparatus	520,223	May 22	2261	550	67	999

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Schneider, George P., Cleveland, Ohio. Pumping apparatus for gas, air, water, &c.....	521,675	June 19	1640	384	67	1527
Schneider, Henri, Creuzot, France. Cementing armor-plates	515,505	Feb. 27	2521	{ 624 625 }	{ 66	1370
Schneider, Henry G. (See Schwalbe and Schneider.)						
Schneider, Herman. (See Pauly and Schneider.)						
Schneider, Hugo, Cleveland, Ohio. Filler	515,884	Mar. 6	234	55	66	1497
Schneider, Jacob, <i>et al.</i> (See Bosman, Nicolas, assignor.)						
Schneider, Jakob, New York, N. Y. Life-guard for cars	531,391	Dec. 25	2320	554	69	1685
Schneider, John B. and J. J., St. Louis, Mo. Metal-bending machine.....	523,413	July 24	2141	{ 537 538 }	{ 68	448
Schneider, John G., Boston, Mass. Washboard.....	525,628	Sept. 4	511	123	68	1246
Schneider, John J. (See Schneider, John B. and J. J.)						
Schneider, Otto, Berlin, Germany. Fare-indicator for cars	519,972	May 15	1805	443	67	902
Schneider, Philipp, assignor of one-half to G. C. Witte, Chattanooga, Tenn. Spoke-socket	519,373	May 1	600	145	67	653
Schneider-Preiswerk, Theodor, Basle, Switzerland. Parachute-sail for balloons	512,450	Jan. 9	1214	294	66	241
Schnell, August, Clinton, Iowa. Spirit-level attachment	517,935	Apr. 10	849	214	67	177
Schnell, August, Clinton, Iowa. Spirit-level attachment	527,815	Oct. 23	1872	449	69	392
Schnepf, John, assignor of one-half to W. H. Bellamy, New York, N. Y. Pneumatic signal-switch	514,503	Feb. 13	884	225	66	1037
Schnepf, John, assignor of one-half to W. H. Bellamy, New York, N. Y. Pneumatic bell.....	515,447	Feb. 27	2437	604	66	1355
Schnepf, John, assignor of one-half to W. H. Bellamy, New York, N. Y. Pneumatic door-lock opener	518,119	Apr. 10	1172	293	67	230
Schmitzler, Charles H. (See Meany, James A., assignor.)						
Schnurr, William, Brooklyn, N. Y., assignor to United States Printing Company, of Ohio. Adjustable gearing	526,750	Oct. 2	135	32	69	27
Schoaf, John W., McKeesport, Pa. Nut-lock	514,339	Feb. 6	632	159	66	969
Schoch, Gottfried, Wüldingen, Switzerland. Mixing-machine	512,332	Jan. 9	996	244	66	290
Schoch, Martin L., New Berlin, Pa. Scoop	514,038	Feb. 6	102	26	66	873
Schoeffel, George J. (See Ongley, Charles E., assignor.)						
Schoelkopf, Jacob, <i>et al.</i> (See Fatkin, James, assignor.)						
Schoeller, Carl F. (See Jahr, Rudolph H., assignor.)						
Schoen Brake Shoe Company. (See Schoen, Charles T., assignor.)						
Schoen, Charles T., Allegheny, Pa. Making brake-shoes	513,655	Jan. 30	3228	793	66	741
Schoen, Charles T., Allegheny, Pa. Brake-shoe	513,656	Jan. 30	3329	793	66	741
Schoen, Charles T., Allegheny, Pa. Brake-beam	522,032	June 26	2290	548	67	1664
Schoen, Charles T., Allegheny, Pa. Bolster for railway-cars	529,809	Nov. 27	2274	543	69	1109
Schoen, Charles T., Allegheny, Pa. Pressed-steel fence-post	540,725	Dec. 11	1155	280	69	1439
Schoen, Charles T., assignor to Schoen Brake Shoe Company, Allegheny, Pa. Brake-shoe	520,900	June 5	267	64	67	1246
Schoen, Paul, Glens Falls, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Cording attachment for sewing-machines	529,415	Nov. 20	1610	383	69	979
Schoen, Paul, Glens Falls, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Guide for two-needle sewing-machines	529,416	Nov. 20	1611	383	69	980
Schoen, Paul, Glens Falls, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Guide for sewing-machines	529,417	Nov. 20	1613	383	69	980
Schoen, Paul, Glens Falls, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Hemstitching attachment for sewing-machines	529,418	Nov. 20	1614	{ 384 383 }	{ 69	980
Schoen, Paul, Glens Falls, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Sewing-machine hemmer	529,419	Nov. 20	1615	384	69	980
Schoen, Paul, Glens Falls, N. Y., assignor to Singer Manufacturing Company, of New Jersey. Plaiting attachment for sewing-machines	529,420	Nov. 20	1616	384	69	980
Schoenberg, William H., Philadelphia, Pa. Oil-cloth-printing machine	518,120	Apr. 10	1173	294	67	230
Schoenbrun, Samuel, assignor of one-half to A. Sellner, New York, N. Y. Trousers	518,727	Apr. 24	2246	559	67	454
Schoeneck, Charles, <i>et al.</i> (See Buckley, John P., assignor.)						
Schoeneck, Charles A., Syracuse, N. Y. Awning	512,490	Jan. 9	1253	308	66	254
Schoenmehl, Charles B., assignor of three-fourths to V. L. Sawyer, Waterbury, Conn. Bottle-stopper	524,096	Aug. 7	212	49	68	700
Schoenmehl, Charles B., assignor of three-fourths to V. L. Sawyer, Waterbury, Conn. Bottle-stopper	527,161	Oct. 9	791	193	69	162
Schoeppl, Joseph F., Pittsburg, Pa. Hook and eye	521,391	June 12	1133	267	67	1418
Schoeppl, Joseph F., Pittsburg, Pa. Hook and eye	530,800	Dec. 11	1272	307	69	1462
Schoessel, Christian A., Rock Island, Ill. Saw-swing	531,222	Dec. 18	2018	481	69	1612
Schoff, Henry W., B. Finkel, and F. E. Probert, Oak Park, Ill. Self-opening umbrella	521,222	June 12	836	196	67	1362
Schofield, Albert B., Brooklyn, N. Y. Curtain-ring	515,077	Feb. 20	1833	463	66	1230
Schofield, Silas C., Freeport, Ill. Runner attachment for wheeled vehicles	520,606	June 5	83	19	67	1213
Schofield, James D., Dallas, Tex., assignor to Texas Implement and Machine Company, of Texas. Gearing and gear-covering for agricultural machinery	531,278	Dec. 18	2118	508	69	1630
Schofield, William. (See Malam and Schofield.)						
Schofield, William, Philadelphia, Pa. Power-transmitting device	524,354	Aug. 14	681	166	68	802
Scholding, Frederiek W. (See Scholding, John H. and F. W.)						
Scholding, John H. and F. W., Yonkers, N. Y. Shoe-protector	515,173	Feb. 20	1964	490	66	1254
Scholl, Carl, Göttingen, Germany. Corset-steel	514,242	Feb. 6	472	115	66	941
Scholtzen, Paul, Wattenscheid, Germany. Frame for carrying cans or other vessels	521,554	June 19	1438	334	67	1489
Scholz, August, New York, N. Y. Cigar-stump receptacle	518,827	Apr. 24	2410	596	67	483
Schomburg, Rudolf, Berlin, Germany. Fixing electric conducting-wires to insulators supporting same	515,448	Feb. 27	2438	604	66	1355
Schönig, Gustav, Vienna, Austria-Hungary. Piano for children	518,200	Apr. 10	1322	331	67	259
Schon, Hubert, Apollo, assignor to himself, N. C. Davison, Pittsburg, G. Muth and J. P. Sipe, Allegheny, Pa. Chill for making chilled castings	528,034	Oct. 23	2285	551	69	466
Schönemann, August, Hasserode, Germany. Life-boat	513,424	Jan. 23	2797	686	66	628
Schonhoff, C. A., <i>et al.</i> (See Rouse, John H., assignor.)						
Schonhoff, Clemens A. (See Rouse and Schonhoff.)						
Schonhoff, J. H., <i>et al.</i> (See Rouse, John H., assignor.)						
Schooley, John C., <i>et al.</i> (See Pritchard, Nathaniel J., assignor.)						
Schoolhouse, Lewis, New York, N. Y. Ribbon-display cabinet	528,035	Oct. 23	2286	551	69	467
Schoonmaker, Peter H., Concord, N. H. Trace trimmer and finisher	523,131	July 17	1661	416	68	345
Schoop, Paul, Zurich, Switzerland. Electric traction apparatus	520,340	May 22	2457	596	67	1037
Schoop, Paul, Zurich, Switzerland. Method of and apparatus for circulating liquid electrolytes	529,199	Nov. 13	1216	293	69	886
Schopp, Andrew, and J. Liese, assignors to Sucker State Drill Company, Belleville, Ill. Grain-drill	513,060	Jan. 16	2231	{ 536 537 538 }	{ 66	448
Schopper, Louis, Leipsic, Germany. Testing-machine	521,323	June 12	1014	{ 239 238 }	{ 67	1394

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Schott, Cyrns. (See Miltonberger, Wynant, and Schott.)						
Schott, John C., <i>et al.</i> (See Grant, Robert A., assignor.)						
Schotte, Frank, <i>et al.</i> (See Zanger, Theodor, assignor.)						
Schotzko, Rudolf M., Tacoma, Wash. Apparatus for returning exhaust-steam to boilers and heating feed-water	512,993	Jan. 16	2136	508	66	430
Schowalter, Peter C., Moundridge, Kans. Twine-holder	528,694	Nov. 6	311	76	69	702
Schpanowsky, Leonid P., Odessa, Russia. Melharmonium	530,605	Dec. 11	949	233	69	1404
Schrade, George. (See Salomon, Etienne, assignor.)						
Schrader, Carl L., Hamburg, Germany. Heel	522,234	July 3	103	24	68	20
Schrader, Charles F. (See Gault and Schrader.)						
Schrader, George H. F., and H. P. Kraft, New York, N. Y.; said Kraft assignor to said Schrader. Valve	531,392	Dec. 25	2322	554	69	1685
Schrader, Henry C., Hammondville, Pa. Mold-moistener	526,948	Oct. 2	461	113	69	87
Schrader, Paul, Witten, Germany. Wire-rolling apparatus	529,200	Nov. 13	1218	294	69	886
Schrader, Paul, Witten, Germany. Wire-rolling apparatus	529,201	Nov. 13	1219	294	69	887
Schramm, Bernhard. (See Schramm, Constant and B.)						
Schramm, Charles W., Des Moines, Iowa. Measuring device	529,202	Nov. 13	1220	294	69	887
Schramm, Constant and B., Harrison, N. J. Bottle-stopper	519,777	May 15	1490	361	67	843
Schramm, Theobald. (See Pleukharp and Schramm.)						
Schraube, Conrad, assignor to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Substantive blue dye	524,220	Aug. 7	431	.....	68	740
Schraube, Conrad, and E. Romig, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Phenylrosindulin sulfo-acid	524,221	Aug. 7	432	.....	68	741
Schraube, Conrad, and E. Romig, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen, Germany. Violet-red dye	524,222	Aug. 7	433	.....	68	741
Schraubstadter, Carl, Jr., and C. R. Schilling, assignors to Western Engravers' Supply Company, St. Louis, Mo. Routing-machine	527,025	Oct. 2	579	140	69	109
Schreiber, Moritz. (See Oettinger and Schreiber.)						
Schreidt, Frank, Mansfield, Ohio. Automatic relief-valve	525,629	Sept. 4	512	123	68	1247
Schreiner, Friedrich, Plainfield, N. J. Stove for drying matrices	520,578	May 20	2848	688	67	1126
Schreuder, Jens G., Wilkensburg, Pa. Compensator for signals	515,722	Feb. 27	2875	717	66	1440
Schreuder, Jens G., Wilkensburg, Pa. Switch apparatus	526,328	Sept. 18	1746	{ 413 414 }	68	1498
Schriver, Oliver P., Newport, Ky. Roller-staple	519,435	May 8	902	217	67	725
Schrock, William M. (See Vogel and Schrock.)						
Schroder, Nicholas, New York, N. Y. Display-box	521,050	June 5	533	125	67	1294
Schroeder, Max, Dusseldorf, assignor of one-half to Actien-Gesellschaft für Zink-Industrie, vormals Wilhelm Grillo, Oberhausen, Germany. Producing glue and gelatine from bones	518,861	Apr. 24	2455	609	67	492
Schroeder, Richard D., San Francisco, assignor to W. F. Pierce, Oakland, Cal. Beer-pressure apparatus	520,224	May 22	2262	550	67	999
Schroeder, Theodor, New Prague, Minn. Adjustable odometer	519,592	May 8	1184	{ 285 286 }	67	775
Schroedter, August W., Berlin, Germany. Closing device for bottles	526,329	Sept. 18	1749	415	68	1498
Schroeffel, John. (See Voegtly and Schroeffel.)						
Schroll, William S. (See Able and Gross, assignors.)						
Schröter, Emil, Berlin, Germany. Folding bed	516,660	Mar. 20	1545	368	66	1773
Schröter, Ernst W. R., assignor to Ichthyol Gesellschaft, Cordes, Hermann & Co., Hamburg, Germany. Making pure sulfonic compounds	513,204	Jan. 23	2450	.....	66	560
Schroth, William J. (See Sturts, Charles F. A., assignor.)						
Schubert, George, Walnut Springs, Tex. Baling-press	517,936	Apr. 10	850	214	67	177
Schubert, Hermann, Berlin, Germany. Axle-box	512,752	Jan. 16	1707	408	66	350
Schubert, Louis, St. Louis, Mo. Piano-action	516,451	Mar. 13	1181	283	66	1689
Schubert, Frank, Chicago, Ill. Float for refrigerators	525,668	Sept. 4	583	139	68	1258
Schuckers, Jacobs W., Belleville, N. J. Type-writing machine	529,810	Nov. 27	2276	{ 543 544 }	69	1109
Schulemann, Frederick, New York, N. Y. Embroidery-hoop holder	512,909	Jan. 16	1998	473	66	405
Schuler, James C., Lanier, Ga. Extracting turpentine	530,205	Dec. 4	225	56	69	1256
Schuler, Louis, Göppingen, Germany. Stamping-press	518,080	Apr. 10	1103	279	67	217
Schuler, Otto, assignor of one-third to M. Wengert, New York, N. Y. Circular loom	522,742	July 10	995	{ 247 248 }	68	204
Schuller, Carl H. (See Jans, William P., assignor.)						
Schulte, Anton, assignor of one-half to W. B. Krueger, St. Louis, Mo. Car-curtain stretcher-rod and guide attachment-hook	524,972	Aug. 21	1709	421	68	1002
Schulte, Franz, Hamburg, Germany. Molder's tack	519,164	May 1	403	97	67	615
Schultz, Adam, assignor of one-half to J. Deck, Cincinnati, Ohio. Malting-machine	529,842	Nov. 27	2342	{ 557 558 }	69	1122
Schultz, Adam, assignor of one-half to J. Deck, Cincinnati, Ohio. Mashing-machine	531,601	Dec. 25	2686	644	69	1755
Schultz, Carl H., Jr., deceased, New York, N. Y.; C. H. Schultz, administrator. Filter	517,488	Apr. 3	122	27	67	25
Schultz, Carl H., Jr., deceased, Murray Hill, N. J.; C. H. Schultz, administrator. Out-board propeller-shaft for vessels	526,751	Oct. 2	137	32, 33	69	27
Schultz, Frederick B., New York, N. Y. Doll	526,667	Sept. 25	2333	558	68	1618
Schultz, Johann C. H., Hamburg, Germany. Roofing	522,330	July 3	266	70	68	54
Schultz, John L., and A. C. Westlake, Brooklyn, N. Y.; said Schultz assignor to said Westlake. Manufacture of stove-boards. (Reissue)	11,444	Oct. 2	603	146	69	113
Schultze, Frederick W., Philadelphia, Pa. Lock	531,008	Dec. 18	1626	386	69	1541
Schultze, George T., Evansville, Ind. Apparatus for drying lumber	519,352	May 8	769	188	67	699
Schultze, Gustav F. W. (See Ench, Fügél, Cooke, and Schultze.)						
Schultze, Gustav F. W., Berkeley, Cal. Coin-controlled apparatus	514,664	Feb. 13	1147	286	66	1087
Schulz, Gustav C. (See Tiefel, Charles G., assignor.)						
Schulz, Herman C., assignor to Lumber District Mill Company, Chicago, Ill. Boring-machine	528,307	Oct. 30	2765	668	69	569
Schulz, Ludwig. (See Müller and Schulz.)						
Schulze, Andrew, Lott, Tex. Breast for cotton-gins	517,937	Apr. 10	850	214	67	178
Schulze, Andrew, Lott, Tex. Governor for seed-cotton-handling apparatus	521,676	June 19	1642	385	67	1527
Schulze, Andrew, Lott, Tex., assignor to Kingsland & Douglas Manufacturing Company, St. Louis, Mo. Dog or stop device for haling-presses	521,511	June 19	1367	318	67	1477
Schumacher, Albert C., Ann Arbor, assignor to Muskegon Chemical Fire Engine Company, Muskegon, Mich. Process of and compound for extinguishing fires	520,012	May 15	1268	.....	67	913
Schumacher, Gustave W., assignor to G. F. Gould, Portland, Me. Keyhole-guard	530,206	Dec. 4	226	56	69	1256
Schumacher, Henry, San Francisco, Cal. Winding mechanism for timepieces	524,671	Aug. 14	1203	{ 294 295 }	68	899
Schumacher, Hermann G., Hockheim, assignor of one-half to J. Mueller, Moulton, Tex. Insect-powder distributor	511,805	Jan. 2	90	23	66	20

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Schumacher, Wwe. J. (See Barthelmess, Johannes, assignor.)						
Schumm, Bleichard, New York, N. Y. Apparatus for preparing and manipulating fermenting mixtures	514,340	Feb. 6	623	159	66	970
Schumm, Hermann, assignor to Gas-Motoren-Fabrik-Deutz, Cologne-Deutz, Germany. Gas or oil motor-engine	528,115	Oct. 23	2424	587	69	492
Schunke, Carl. (See Gedies and Schunke.)						
Schüpphans, Robert C., Brooklyn, N. Y. Nitro compound and making same	514,838	Feb. 13	1439	.....	66	1143
Schüpphans, Robert C., Brooklyn, assignor to H. Maxim, New York, N. Y. Nitrating cellulose	526,752	Oct. 2	138	.....	69	27
Schüpphans, Robert C., Brooklyn, assignor to Arlington Manufacturing Company, New York, N. Y. Pyroxyline compound and making same	528,812	Nov. 6	515	.....	69	740
Schüpple, Charles, and C. Hübel, Philadelphia, Pa. Cigar-press	519,163	May 1	402	97	67	615
Schureman, David S., Rockford, Ill. Electric alarm	513,829	Jan. 30	3494	860	66	792
Schureman, David S., Rockford, Ill. Electric-circuit breaker	516,025	Mar. 6	475	110	66	1540
Schuricht, John E. W., St. Louis, Mo. Transformable carriage	523,179	July 17	1747	438	68	360
Schurkens, John P., Westphalia, Kans. Corn-husker	519,929	May 15	1728	424	67	888
Schurmeier, Edward J., St. Paul, Minn. Stake-pocket for drays	515,796	Mar. 6	111	26, 27	66	1474
Schutte, Louis, Philadelphia, Pa. Check-valve	516,407	Mar. 13	1106	263	66	1674
Schutte, Louis, Philadelphia, Pa. Steam-jet nozzle	519,796	May 15	1525	371	67	850
Schutte, Louis, Philadelphia, Pa. Check-valve	524,048	Aug. 7	127	29	68	6-6
Schutte, Louis, Philadelphia, Pa. Check-valve	524,049	Aug. 7	129	30	68	686
Schutte, Louis, Philadelphia, Pa. Stop-valve	529,879	Nov. 27	2401	574	69	1134
Schütz, Alwin, and A. Landerer, Leipsic, assignors to W. J. Tenfel, Stuttgart, Germany. Bandage for varicose veins	519,894	May 15	1681	410	67	880
Schutz, Emile, and J. H. Henderson, Sierra City, Cal. Hydraulic air-compressor	517,628	Apr. 3	347	82	67	68
Schutz, Joseph M., Minneapolis, Minn. Pulverizing apparatus	522,945	July 10	1319	{ 328 329 }	68	266
Schuman, Reynderdt. (See Kershaw, Daniel, assignor.)						
Schnyer, Abram, assignor of one-half to A. Schuyler, Scott's, Mich. Churn	514,095	Feb. 6	190	44	66	890
Schnyer, Abram, assignor of one-half to A. Schuyler, Scott's, Mich. Refrigerator	522,306	July 3	227	61	68	46
Schnyer, Adely. (See Schnyer, Abram, assignor.)						
Schuyler Electric Company. (See Knowles, Edward R., assignor.)						
Schuyler Electric Company. (See Knowles and Park, assignors.)						
Schuyler Electric Company. (See Knowles and Robinson, assignors.)						
Schuyler Electric Company. (See Lemp and Wightman, assignors.)						
Schuyler Electric Company. (See Offrell, Olof, assignor.)						
Schuyler Electric Company. (See Robinson, Lewis T., assignor.)						
Schuyler, William H., Milton, Pa. Index	513,343	Jan. 23	2675	648	66	605
Schwaab, Adam, Jr., New York, N. Y. Head-rest	520,577	May 29	2847	687	67	1126
Schwahn, Heinrich F. D., Kansas City, Mo. Purifying aluminous minerals	514,039	Feb. 6	103	.....	66	873
Schwahn, Heinrich F. D., Kansas City, Mo. Purifying native sulfate of barium	514,040	Feb. 6	104	.....	66	874
Schwahn, Heinrich F. D., Kansas City, Mo. Separating and recovering the constituents of ores, earths, clays, &c.	514,041	Feb. 6	106	.....	66	874
Schwahn, Heinrich F. D., Kansas City, Mo. Apparatus for generating gas	521,479	June 19	1307	{ 304 305 }	67	1466
Schwahn, Heinrich F. D., Kansas City, Mo. Apparatus for reducing, alloying, remelting, and mixing metals	522,675	July 10	853	212	68	181
Schwalbe, Henry. (See Methke and Schwalbe.)						
Schwalbe, Henry, and H. G. Schneider, assignors of one-fourth to T. Donnell, Philadelphia, Pa. Nut-lock	523,549	July 24	2385	598	68	492
Schwalbe, Joseph. (See Knowlton, Ephraim H. B., assignor.)						
Schwan, August H., Moundridge, Kans. Twine-holder	529,756	Nov. 27	2191	522	69	1093
Schwane, Christian C., Winterset, Iowa. Neck-yoke attachment	530,355	Dec. 4	493	122	69	1304
Schwane, Christian C., Winterset, Iowa. Trace-carrier	530,356	Dec. 4	494	122	69	1304
Schwartz, Charles W., Jr., assignor to Philadelphia Textile Machinery Company, Philadelphia, Pa. Truck	525,162	Aug. 28	2031	507	68	1085
Schwartz, Jacob. (See Bettegar and Schwartz.)						
Schwartz, Morris, Chicago, Ill. Adjustable picture-hanger	517,195	Mar. 27	2459	578	66	1962
Schwarz, Jacob, New York, N. Y. Waistband for trousers and device for attaching shirt-waists thereto	530,130	Dec. 4	94	25	69	1232
Schwarz, Julius, New York, N. Y. Waistband for trousers	517,924	Apr. 10	944	237	67	192
Schwarz, Rudolf. (See Eppers, Heinrich, assignor.)						
Schwarz, Solomon, Philadelphia, Pa. Garment-clasp	524,405	Aug. 14	780	191	68	821
Schwarz, Solomon, Philadelphia, Pa. Garment-clasp	524,406	Aug. 14	781	191	68	827
Schwarzenberger, Siddi, Zittau, Germany. Grinding-mill	526,203	Sept. 18	1539	361	68	1456
Schwarzschild, Alexander, Frankfort-on-the-Main, Germany. Railway-rail	530,131	Dec. 4	95	25	69	1233
Schwéers, Raphael, and C. Fuchs, Dantzic, Germany. Device for altering speed of cycles	525,030	Aug. 28	1834	{ 447 448 }	68	1043
Schwehr, Albert, Sandusky, Ohio. Cigar-bunch machine	524,565	Aug. 14	1033	255	68	867
Schweiger, Samuel, et al. (See Probola, Adam, assignor.)						
Schwein, Herman, assignor of one-half to G. Stark and W. E. Brinkerhoff, Detroit, Mich. Pneumatic hoist	519,436	May 8	903	217	67	725
Schweinefleisch, Ernst, Mülhausen, Germany. Cloth-napping machine	522,497	July 3	547	{ 139 140 }	68	108
Schweitzer, Albert, assignor of two-thirds to F. Goellner, Allegheny, and C. Weber, Shaler, Pa. Electric-arc lamp	522,233	July 3	101	23	68	20
Schweitzer, Fritz, Düsseldorf, Germany. Wall	528,239	Oct. 30	2649	638	69	548
Schweizer, John T., Wilmington, Del., and J. H. Burger, Philadelphia, Pa. Cable-car transfer device	512,910	Jan. 16	1999	474	66	405
Schwenke, Paul, Zerst, Germany. Electrical signaling apparatus for railways	525,866	Sept. 11	971	{ 217 218 }	68	1340
Schwer, Theodore, assignor to Universal Lock and Stopper Company, St. Louis, Mo. Bottle-stopper	515,723	Feb. 27	2876	717	66	1440
Schwerdt, Charles F. G. R., London, England. Box for pattern or other cards	516,452	Mar. 13	1184	284	66	1689
Schwesinger, Henry and J., Detroit, Mich. Pump for organs	522,184	June 26	2541	610	67	1713
Schwesinger, John. (See Schwesinger, Henry and J.)						
Schweizer, Adolph, assignor of two-thirds to M. M. Hirsh and W. F. Jobbins, Chicago, Ill. Extracting fats from animal or vegetable substances	520,743	May 29	3127	757	67	1176
Schwickart, Philip, Brooklyn, N. Y. Trimmer for vault-lights	520,273	May 22	2346	569	67	1015
Schwiebert, Jean, Barmen, Germany. Oil-can	528,565	Nov. 6	64	17	69	658
Schwieger, Heinrich, assignor to Siemens & Halske, Berlin, Germany. Electric tramway	530,286	Dec. 4	375	92, 93	69	1283
Schwinghammer, Kaspar. (See Kirchmann and Schwinghammer.)						
Schwoerer, Emil, Colmar, Germany. Tube for superheating steam	515,974	Mar. 6	389	90	66	1525
Schwoerer, Emil, Colmar, Germany. Compound engine	515,975	Mar. 6	390	90, 91	66	1525

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Schwörer, Rudolf. (See Zwigard and Schwörer.)						
Scidmore, Arthur W., Three Rivers, Mich. Storm-hood for top-carriages	527,162	Oct. 9	793	193	69	162
Scotfield, Edward S., and J. J. Jennings, Ridgeway, N. Y. Wire fence	530,244	Dec. 4	297	73	69	1269
Scognamille, Salvatore, Richmond, Va., assignor of one-half to A. Amoroso, Washington, D. C. Steam-engine	513,830	Jan. 30	3495	861	66	792
Scognamille, Salvatore, and C. Dominici, Richmond, Va. Pedal for bicycles	527,349	Oct. 9	1101	269	69	218
Scognamille, Salvatore, and C. Dominici, Richmond, Va. Bicycle	527,723	Oct. 16	1725	416	69	348
Scollay, John P. (See Perkins and Scollay.)						
Scott, John H., Portland, Oreg. Voting-machine	512,994	Jan. 16	2137	508	66	430
Scott, Louis K., Chicago, Ill. Method of and apparatus for making rubber type	528,308	Oct. 9	2768	668	69	569
Scott, Louis K., assignor to Superior Rubber Type Company, Chicago, Ill. Machine for cutting rubber type	531,069	Dec. 18	1722	416	69	1559
Scott, Barton W., San José, assignor to himself, and W. Rice, Saratoga, Cal. Writing-table or manuscript-holder	514,777	Feb. 13	1338	335 336	66	1123
Scott, Bertie C., Bruges, Belgium. Means for propelling canal-boats	518,680	Apr. 24	2151	538	67	439
Scott, Brigham R. (See Scott, Harvey, and Scott.)						
Scott, Charles F. (See Westinghouse and Scott.)						
Scott, Charles F., Pittsburg, Pa. System of electrical distribution by alternating currents	521,051	June 5	534	126	67	1294
Scott, Charles F., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Self-induction coil	513,425	Jan. 23	2798	686	66	629
Scott, Charles F., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Electrical transmission of power	515,885	Mar. 6	236	56	66	1498
Scott, Charles F., assignor to Westinghouse Electric and Manufacturing Company, Pittsburg, Pa. Economizing the energy of alternating currents	520,970	June 5	390	95	67	1268
Scott, Charles H., C. H. Harvey, and B. R. Scott, Fitchburg, Mass. Bevel	526,638	Sept. 25	2276	545	68	1608
Scott, Clinton A., et al. (See Hersh, Elmer E., assignor.)						
Scott, Dennis M., assignor of two-thirds to W. J. Bell, Warner's, and I. B. Hoyt, Syracuse, N. Y. Door-plate	522,677	July 10	857	213	68	181
Scott, Dugald, assignor to Jones Brothers & Co., Manchester, England. Woven duster or polishing-cloth	525,669	Sept. 4	585	68	1259	
Scott, Ebenezer, and J. O. Burke, Red Bank, N. J. Attachment for bicycles	530,726	Dec. 11	1156	250	69	1439
Scott, Edward. (See Oliver and Scott.)						
Scott, Edward, Chattanooga, Tenn. Combustible material	523,600	July 24	2464	618 619	68	506
Scott, Erastus W., Danielsenville, Conn. Bicycle	525,724	Sept. 11	698	162	68	1292
Scott, Frank D., assignor of one-half to F. S. Taylor, Mount Morris, Mich. Hoof-weight	523,180	July 17	1748	438	68	360
Scott, George. (See Lowrie, Barr, and Scott.)						
Scott, George A., London, England, assignor to Western Union Telegraph Company, of New York. Printing-telegraph	529,630	Nov. 20	1979	472 473	69	1046
Scott, Gordon J. (See Ries and Scott.)						
Scott, Gordon J., assignor of one-half to A. H. Henderson, Philadelphia, Pa. Electromagnetic machine	529,085	Nov. 13	1019	245	69	851
Scott, Jacob R., New York, N. Y. Take-up for sewing-machines	515,252	Feb. 20	2997	520 521	66	1279
Scott, Jacob R., New York, N. Y. Sewing-machine	515,621	Feb. 27	2710	674	66	1408
Scott, Jacob R., New York, N. Y. Leather-scoring machine	520,709	May 29	3079	745	67	1168
Scott, Jacob R., New York, N. Y. Leather-skiving machine	521,090	June 5	604	142 143	67	1306
Scott, Jacob R., New York, N. Y. Skiving-machine	523,448	Oct. 30	3002	725 726	69	610
Scott, James G. (See Halstead, Benton, assignor.)						
Scott, Joseph H., Aspen, Colo. Indicator	531,572	Dec. 25	2634	631	69	1745
Scott, Joseph T., Cœur d'Alene, Idaho. Perforator	514,778	Feb. 13	1343	336	66	1124
Scott-Moncrieff, William D., London, England. Treatment of sewage and apparatus therefor	530,622	Dec. 11	975	239	69	1409
Scott, Peter, Allegheny, Pa. Measuring apparatus for deep wells	516,635	Mar. 13	1494	355	66	1747
Scott, Robert P., Cadiz, Ohio. Bicycle-tire	521,273	June 12	921	218	67	1377
Scott, Robert P., Cadiz, Ohio. Cern-silker	524,223	Aug. 7	435	102	68	741
Scott, Robert W. (See Williams, Louis N. D., assignor.)						
Scott, Walter, Plainfield, N. J. Mechanism for transmitting motion	516,227	Mar. 13	812	189 122	66	1620
Scott, Walter, Plainfield, N. J. Bed and cylinder printing-machine	530,357	Dec. 4	495	123 124	69	1305
Scott, William, assignor of one-half to B. H. Oldfield, Leavenworth, Kans. Window-screen	514,871	Feb. 13	1459	374	66	1152
Scott, William A., Jr., Pittsburg, Pa. Covering for boilers	519,137	May 1	347	82, 83	67	605
Scott, William G., Liverpool, England. Railway signaling apparatus	522,676	July 10	855	213	68	181
Scott, William H., Toledo, Ohio. Bicycle-support	526,543	Sept. 25	2129	510	68	1580
Scovell, Halsey B., Dixon, Ill. Bicycle	515,449	Feb. 27	2439	604	66	1335
Scovill & Adams Company. (See Flammang, Mathias, assignor.)						
Scovill Manufacturing Company. (See Barbour, Robert C., assignor.)						
Scovill Manufacturing Company. (See Shipley, Alfred J., assignor.)						
Scovill Manufacturing Company. (See Shipley and Hyde, assignors.)						
Scovill Manufacturing Company. (See Wolf and Hyde, assignors.)						
Scoville, Elijah U., Manlius, N. Y. Grate	525,163	Aug. 28	2082	507	68	1085
Scoville, Grace E. (See Scoville and Dornin, assignors.)						
Scoville, Horace B., New Waterford, Ohio. Fireplace-heater	518,862	Apr. 24	2458	609	67	492
Scoville, Levi W., and W. W. Dornin, said L. W. Scoville assignor, by mesne assignments, to G. E. Scoville, Lynchburg, Va. Mouthpiece for slop-jars	523,488	July 24	2286	575	68	473
Scowden, Ransom T., Chicago, Ill. Apparatus for purifying water	513,536	Jan. 30	3020	745	66	704
Scowden, Ransom T., Chicago, Ill. Apparatus for purifying water	513,666	Jan. 30	3270	805	66	749
Scribner, Charles E., Chicago, Ill. Double-carbon arc lamp	512,667	Jan. 9	1551	372 373	66	305
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Regulator for dynamo-electric machines	512,227	Jan. 2	824	199 200	66	156
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Spark-regulator for dynamo-electric machines	512,397	Jan. 9	1106	268 269	66	221
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards	512,398	Jan. 9	1109	269	66	221
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Apparatus for telephone-switchboards	512,399	Jan. 9	1111	269	66	221
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. American district electric signal apparatus	512,400	Jan. 9	1113	269 270	66	222
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Duplex arc lamp	512,401	Jan. 9	1116	270	66	222

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Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Signaling system for telephone trunk-lines.....	513,537	Jan. 30	3032	746	66	704
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Current-regulator for dynamo-electric machines.....	514,504	Feb. 13	885	225	66	1037
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Electric-arc lamp.....	514,506	Feb. 13	890	226	66	1038
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Duplex arc lamp.....	518,792	Apr. 24	2350	582	67	473
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Telephone-circuit.....	519,876	May 15	1652	402	67	874
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Testing system for multiple switchboards.....	520,543	May 29	2729	674	67	1114
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Dynamo-electric machine.....	522,274	July 3	180	49	68	37
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Regulator for dynamo-electric machines.....	522,275	July 3	182	49, 50	68	37
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Magneto call-box.....	523,132	July 17	1662	416	68	345
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Multiple-switchboard system.....	529,421	Nov. 20	1618	385	69	981
Scribner, Charles E., assignor to Western Electric Company, Chicago, Ill. Switching apparatus for incandescent electric lamps.....	529,532	Nov. 20	1834	436	69	1019
Scribner, Charles E., and E. P. Warner, assignors to Western Electric Company, Chicago, Ill. Electric-arc lamp.....	514,505	Feb. 13	888	225 } 226 }	66	1038
Scribner, Elmer C., Neversink, N. Y. Combination rubber and steel horseshoe.....	518,863	Apr. 24	2460	609	67	493
Scudder, John L., Middle Grove, Ill. Harrow.....	531,009	Dec. 18	1627	386	69	1541
Scullin, Thomas F. (See Moore, Channey G., assignor.).....						
Scully, John, South Amboy, N. J. Coal-chute.....	521,059	June 5	538	126	67	1294
Seaberg, John A. W., Malden, assignor of one-half to C. W. Carter, Auburndale, Mass. Baby-jumper.....	519,593	May 8	1186	266	67	775
Seabury, Charles L., Nyack, N. Y. Boiler.....	523,489	July 24	2257	575 } 576 }	68	473
Seabury & Johnson. (See Parker and Williams, assignors.).....						
Seabury, Samuel, U. S. Navy. Breech-loading cannon.....	514,967	Feb. 20	1638	410 } 411 }	66	1195
Seabury, Samuel, Bayonne, N. J., assignor of one-half to H. S. Ross, U. S. Navy. Steering propeller.....	511,806	Jan. 2	92	23, 24	66	21
Seadler, James, Sacramento, Cal. Sash-fastener.....	526,268	Sept. 18	1638	326	68	1475
Seager, James B. (See Brownell and Seager.).....						
Seal, Theodore T., Bellaire, Ohio. Mandolin.....	518,900	Apr. 24	2531	626	67	507
Seaman, Abraham C. (See Saeman, Daniel C. and T. W., assignors.).....						
Seaman, Charles H., St. Joseph, Mo. Drying-kiln.....	519,138	May 1	349	83	67	605
Seaman, George Q., Brooklyn, N. Y. Time-alarm bed.....	516,611	Mar. 13	1457	344	66	1740
Seaman, George Q., A. Wilson, and W. Jones, Brooklyn, N. Y. Safety car-fender.....	516,408	Mar. 13	1107	263	66	1674
Seaman, George S., Alvarado, Tex. Shoe for bridges.....	517,938	Apr. 10	852	215	67	178
Seaman, John A. (See Delano, Eben A., assignor.).....						
Seaman, William M., Goldman Landing, La. Ice shaver and pick.....	526,585	Sept. 25	2192	524	68	1592
Seamans, Charles W., et al. (See McCollum, James C., assignor.).....						
Seamans, Edward W., assignor of one-half to G. C. Bentz, Grand Rapids, Mich. Brick-press.....	516,453	Mar. 13	1185	284	66	1689
Seamless Rubber Company. (See Martin, Dennis B., assignor.).....						
Search, Casper F., assignor to Appleton Manufacturing Company, Appleton, Wis. Seeder.....	511,807	Jan. 2	93	24	66	21
Searle, Joseph M., Grand Rivers, Ky. Vacuum or hand-actuated by-pass valve for steam-engines.....	524,614	Aug. 14	1115	274 } 275 }	68	883
Sears, Charles, Cleveland, Ohio. Printer's make-ready.....	530,310	Dec. 4	411	103	69	1290
Sears, George, and W. H. Underwood, Onslow, Iowa. Power-shears.....	522,622	July 10	774	196	68	166
Sears, Robert, Newark, N. J. Brille-bit.....	514,779	Feb. 13	1344	336	66	1124
Sears, Robert, Newark, N. J. Check attachment.....	526,204	Sept. 18	1540	361	68	1456
Sears, Willard T., Philadelphia, Pa. Differential hoist.....	515,696	Feb. 27	2838	706 } 707 }	66	1433
Sears, Willard T., Philadelphia, Pa. Device for attaching shafts to vehicles.....	530,501	Dec. 11	1273	307	69	1462
Sears, William, Boston, Mass. Type-writing machine.....	524,867	Aug. 21	1538	375	68	972
Seaton, Thomas, Sr., Toronto, Canada. Pipe-bender.....	528,036	Oct. 23	2227	552	69	467
Seaton, William, Greenfield, assignor of one-half to I. R. Cole, Harrisburg, Ark. Fish-trap.....	521,053	June 5	539	126	67	1295
Seaver, Alonzo H., Webster City, Iowa. Combined board and cutter.....	516,026	Mar. 6	476	110	66	1541
Seaver, Fernando W., Bennington, Ind. Saw-clamp.....	513,831	Jan. 30	3497	861	66	793
Seaver, John W., Allegheny, Pa. Elevator.....	527,295	Oct. 9	1017	247	69	203
Seaverns, Edmund B. V., Brookline, Mass. Controller for alternating-current machines.....	521,867	June 26	1970	476	67	1606
Seavey, Lafayette W., New York, N. Y. Architectural decorative material and making same.....	511,971	Jan. 2	410	95	66	78
Sebastian, Charles, Salem, assignor, by mesne assignments, to Commercial Cash Register Company, East St. Louis, Ill. Cash register, indicator, and check-printer.....	512,753	Jan. 16	1708	408 } 409 }	66	350
Seberg, August, and D. Connor, Marshalltown, Iowa. Lamp-shade.....	517,889	Apr. 10	771	192 } 193 }	67	163
Sébillot, Amédée M. G., and F. Weidknecht, Paris, France. Ship-railway.....	530,245	Dec. 4	298	74 } 75 }	69	1270
Sebring, Christopher F., Leeds, Mo. Telegraph-key.....	528,345	Oct. 30	2822	682	69	578
Seburn, William. (See McKain and Seburn.).....						
Seck, Heinrich, Dresden, Germany. Middlings-purifier.....	529,965	Nov. 27	2549	614	69	1160
Seck, Willy, Ober-Ursel, Germany. Gas or hydrocarbon motor.....	517,890	Apr. 10	772	192 } 193 }	67	163
Secor, David E. (See King, William, assignor.).....						
Secor, Martin M., Racine, Wis. Trunk.....	511,808	Jan. 2	94	24	66	21
Security Pneumatic Tire Company. (See Tillinghast, Pardon W., assignor.).....						
Seddon, Edward H., Sale, England. Pneumatic wheel-tire.....	523,947	July 31	3106	773	68	642
Seddon, Henry C., London, England. Safety percussion-fuse.....	521,129	June 5	667	157 } 158 }	67	1318
Sedgwick Bros. Company. (See Sedgwick, Richard, assignor.).....						
Sedgwick, Hiram G., Nashville, Tenn. Slow-motion attachment for microscopes.....	528,211	Oct. 30	2597	627	69	533
Sedgwick, Richard, assignor to Sedgwick Bros. Company, Richmond, Ind. Wire-twisting machine.....	520,617	May 29	2909	703 } 704 }	67	1137
See, Alonzo B., and W. L. Tyler, Brooklyn, N. Y. Dynamo-electric machine or electric motor.....	524,533	Aug. 14	977	240	68	857

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See, Alonzo B., and W. L. Tyler, Brooklyn, N. Y. Controlling device for elevators	531,070	Dec. 18	1725	410	69	1559
See, Horace, New York, N. Y. Evaporating apparatus	529,533	Nov. 20	1835	{ 436 437 }	69	1019
See, Horace, and G. L. Carden, New York, N. Y. Wave-quieting device	527,513	Oct. 16	1377	335	69	284
Seeberger, John, West Troy, N. Y. Car-brake ratchet handle	528,492	Oct. 30	3080	747	69	626
Seebold, Moritz P. C. F. A., <i>et al.</i> (See Bauer, Friedrich R., assignor.)						
Seed, James. (See Seed, Thomas and J.)						
Seed, Thomas and J., Preston, England. Spinning and doubling cops of cotton	524,912	Aug. 21	1603	{ 392 393 394 }	68	981
Seeley, John S. (See Francis, Thomas, assignor.)						
Seeley, Joseph S., and C. R. De La Matyr, Fremont, Nebr. Grain-dump	513,205	Jan. 23	2451	592	66	560
Seeliger, Oswald, Lockhart, Tex. Horseshoe-nail clincher	512,228	Jan. 2	826	200	66	156
Seely, Edward B. (See Williams and Seely.)						
Seely, Obadiah, assignor to E. C. Stearns & Co., Syracuse, N. Y. Wheel-tire	520,901	June 5	268	64	67	1246
Seeman, John J., Garden Grove, Cal. Grinding-mill	525,473	Sept. 4	264	64	68	1200
Sefton, John L. (See Reber and Sefton.)						
Segade, Alexander, and D. J. O'Regan, assignors of one-half to P. McCoy, Detroit, Mich. Underground conduit	525,670	Sept. 4	586	140	68	1259
Segal, Adolph. (See Montross, Levi H., assignor.)						
Seger, Eberhard, Stockholm, Sweden. Steam turbine wheel	530,802	Dec. 11	1274	308	69	1463
Segerberg, Johan A., Denver, Colo. Roller-skate	527,164	Oct. 9	796	194	69	162
Segerdahl, Rudolph, Chicago, Ill. Electric-arc lamp	518,651	Apr. 24	2105	526	67	430
Segerdahl, Rudolph, Chicago, Ill. Electric-arc lamp	528,184	Oct. 30	2545	617	69	529
Sego, Joseph, and C. Faucher, Valparaiso, Ind. Bridge-gate	519,274	May 1	600	145	67	653
Segrest, Lewis H., Brandywine, Miss. Car-coupling	517,666	Apr. 3	425	103	67	82
Segsneider, Gustav, Yonkers, N. Y. Pile-wire for looms	523,869	July 31	2959	737	68	613
Segsneider, Gustav, assignor to J. T. Waring, Yonkers, N. Y. Pile-wire for looms	512,063	Jan. 2	557	132	66	106
Seher, Henry, New York, N. Y. Device for fastening slip-covers on upholstered furniture	517,306	Mar. 27	2640	620	66	1997
Seibel, William A., Independence, Iowa. Lubricator	519,394	May 8	841	204	67	713
Seiberling, John F., Akron, Ohio. Sheaf-carrier for harvesters	515,370	Feb. 27	2312	{ 573 574 575 }	66	1332
Seiberling, John F., Akron, Ohio. Spring-motor	524,792	Aug. 21	1407	{ 343 344 }	68	949
Seiberling, Monroe, Kokomo, Ind. Glass-melting furnace	520,835	June 5	149	33	67	1224
Seibert, Philip, Philadelphia, Pa. Coal-wagon chute	518,121	Apr. 10	1175	294	67	230
Seiberth, Joseph, Frankenmuth, Mich. Feed device for roller-mills	528,057	Oct. 23	2289	552	69	467
Seidel, George A., Norristown, Pa. Car-coupling	525,430	Sept. 4	191	48	68	1185
Seidl, Peter, <i>et al.</i> (See Kuersten, Hugo R., assignor.)						
Seifert, Bruno R., assignor to F. von Heyden, Nachfolger, Radebeul, Germany. Phenol-bismuth compound	516,358	Mar. 13	1027	.....	66	1660
Seifert, George, Milwaukee, Wis. Siphon	514,733	Feb. 13	1272	317	66	1111
Seifert, Otto E., Brooklyn, N. Y. Automatic railway-switch	518,281	Apr. 17	1455	364	67	299
Seifert, Wilhelm A., Leipzig-Plagwitz, Germany. Musical instrument	517,196	Mar. 27	2461	579	66	1962
Seiler, George, and F. Emig, assignors of one-third to G. G. Wagner, Spring Forge, Pa. Machine for separating pulp from liquids	514,780	Feb. 13	1345	336	66	1124
Seipel, Jacob, St. Louis, Mo. Fireproof floor and ceiling construction	522,168	June 20	2517	604	67	1708
Seipel, Jacob, St. Louis, Mo. Tile for floor and ceiling construction	522,169	June 26	2518	605	67	1708
Seitzinger, Harry M., Wilkes-Barre, Pa. Combined municipal telegraph and telephone system	528,566	Nov. 6	65	17	69	658
Sejnhof, Frank S., Chicago, Ill. Smoke-consumer	520,453	May 29	2637	{ 637 638 }	67	1087
Sekyra Anthony, Dayton, Ohio. Car-seat	515,098	Feb. 20	1834	463	66	1230
Selby, James, Peoria, Ill. Corn-planter	523,414	July 24	2143	538	68	449
Selby, Ulysses G., Enid, Okla. Ter. Railway-signal case	526,820	Oct. 2	246	60	69	47
Selden, Arthur R., Rochester, N. Y. Ironing-machine	513,687	Jan. 30	3273	{ 805 806 }	66	750
Selden, Charles. (See Riley and Selden.)						
Selden, Charles, Baltimore, Md. Railway-signal	512,754	Jan. 16	1718	410	66	352
Selden, Charles, Baltimore, Md. Telephone-receiver	515,797	Mar. 6	112	27	66	1474
Selden, Charles, Baltimore, Md. Railway-signal	529,812	Nov. 27	2287	546	69	1111
Selden, Charles, and H. V. Riley, Baltimore, Md. Electric railway-signal	520,661	May 29	2979	721	67	1149
Selden, Charles, and H. V. Riley, Baltimore, Md.; said Riley assignor of one-fourth to said Selden. Electric railway-signal	520,710	May 29	3080	745	67	1168
Selden, Charles, and F. P. J. Patenall, Baltimore, Md.; said Patenall assignor to said Selden. Railway-signal	529,811	Nov. 27	2280	{ 544 545 546 }	69	1110
Selden, George B., <i>et al.</i> (See Davis, Sylvanus E., assignor.)						
Selden, Samuel, Aspen, Colo. Car-coupling	528,346	Oct. 30	2824	682	69	579
Seldner, Jonas J., Baltimore, Md. Converting hair into fertilizers	514,042	Feb. 6	107	.....	66	874
Seldner, Jonas J., Baltimore, Md. Making fertilizers	514,043	Feb. 6	108	.....	66	874
Selen, Erik, Newark, N. J. Combined side door and seat for carriages	514,668	Feb. 20	1642	411	66	1195
Selen, Erik, Utica, N. Y. Device for supporting vehicle-seats	531,339	Dec. 25	2228	532	69	1666
Self Sealing Bicycle Tire Company. (See Shaw, A. B., assignor.)						
Self Winding Clock Company. (See Gerry, James H., assignor.)						
Self Winding Clock Company. (See Gerry and Schmidt, assignors.)						
Sellers, W. N., <i>et al.</i> (See Nevill, William B., assignor.)						
Selleck, Theodore G., assignor to G. H. Corbin and L. K. Salsbury, Grand Rapids, Mich. Door-fastener	517,173	Mar. 27	2423	570	66	1955
Sellenscheidt, Carl, and L. Lepke, Berlin, Germany. Filter	519,275	May 1	601	{ 145 146 }	67	653
Seller Bros. & Co. (See Roberts and Burroughs, assignors.)						
Sellers, Aaron, Muncie, Ind. Wrench	531,279	Dec. 18	2120	508	69	1631
Sellers, Coleman Philadelphia, Pa. Dynamo-electric machinery	520,940	June 5	348	85	67	1260
Sellers, George H., Ridley Park, Pa. Rail-chair	514,243	Feb. 6	473	115	66	941
Sellers, William, Haverhill, Mass. Grass-hook	529,685	Nov. 20	2071	496	69	1063
Sellers, William, and W. Lewis, assignors to William Sellers & Company, Incorporated, Philadelphia, Pa. Locomotive-crane	515,025	Feb. 20	1730	{ 436 437 }	66	1210
Sellner, Abraham. (See Schoenbrun, Samuel, assignor.)						
Sellon, Charles A., assignor of one-half to W. C. Smith, Pike, N. Y. Safety shaft-coupling	514,384	Feb. 6	685	173	66	982
Sellon, Charles A., assignor to C. A. Metcalf, Pike, N. Y. Pump	522,757	July 10	1166	291	68	226
Selowsky, Gustave, New York, N. Y. Necktie	517,769	Apr. 3	597	147	67	116
Selzer A., <i>et al.</i> (See Bright, William H., assignor.)						
Selzer, Daniel F. and H., Akron, Ohio. Pump	518,356	Apr. 17	1601	396	67	326

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Selzer, Henry. (See Selzer, Daniel F. and H.)						
Selzer, William A., Milwaukee, Wis. Extensible step-ladder	524,512	Aug. 14	948	234	68	851
Semenoff, Ivan, St. Petersburg, Russia. Solution of gold and mercury and making same	528,611	Nov. 6	151	.....	69	674
Semler, George. (See Hèydebrand und der Lasa, Ferdinand-Christoph von, assignor.)						
Semler, Johannes, <i>et al.</i> (See Müller, Rudolf, assignor.)						
Simple, James, Woonsocket, R. I. Yarn-creel	524,957	Aug. 21	1682	412	68	997
Sendelbach, Edward C., Chicago, and J. N. Wilkins, Ravenswood, Ill.; said Wilkins assignor to said Sendelbach. Journal-bearing	527,026	Oct. 2	580	140	69	110
Senderling, Martin L., Jersey City, N. J. Dumping-wagon	529,467	Nov. 20	1713	408	69	997
Senderling, Martin L., Jersey City, N. J. Dumping-wagon	531,138	Dec. 18	1856	440	69	1584
Sendker, Louis, <i>et al.</i> (See Edmonds, Charles S., assignor.)						
Sendker, William H., <i>et al.</i> (See Edmonds, Charles S., assignor.)						
Seneca Glass Company. (See Momper and Sigwart, assignors.)						
Sénéchal, Jules E., Paris, France. Pneumatic tire	527,130	Oct. 9	745	183	69	153
Seniff, Edward E., Merwin, Mo. Well-auger	528,695	Nov. 6	312	76	69	702
Senior, James W., assignor of two-thirds to J. J. Martin and H. C. Shultz, Reading, Pa. Lantern	529,422	Nov. 20	1620	385	69	981
Senior, William, and I. Wood, Pendleton, E. Hughes, Manchester, and W. Hemingway, Irlams-Oth-Height, assignors to Horsfall & Bickham, Pendleton, England. Means for fastening card-clothing to flats of carding-engines	524,566	Aug. 14	1035	255	68	867
Senner, Rudolf, assignor of one-half to Firm of H. Drews, Pforzheim, Germany. Pocket-receptacle for cards	525,299	Aug. 28	2276	554	68	1123
Sennevoy, Robert P., de, Paris, France. Safety closing device for bottles	523,153	July 17	1693	424	68	351
Sensenig, Aaron H., assignor of one-half to S. W. Horst, Farmersville, Pa. Running-gear	514,507	Feb. 13	892	226 227	66	1039
Sequeira, Augustus, Hartford, Conn. Variable-speed mechanism	521,512	June 19	1369	318 319	67	1478
Serdinko, John, assignor to National Union Telephone Company, San Antonio, Tex. Telephone	529,203	Nov. 13	1221	295	69	887
Sergeant, Charles S., Winchester, and L. J. Hirt, Boston, Mass. Fare register and recorder	523,446	July 24	2200	554 555	68	458
Sergeant, George S., Greensborough, N. C. Sash-weight	523,498	July 3	547	140	68	108
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Regulator for air-compressors	514,839	Feb. 13	1440	361	66	1143
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Valve-gear for direct-acting engines	520,190	May 22	2204	536 537	67	989
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Channeling-machine	522,236	July 3	105	24, 25	68	20
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Rotating device for rock-drills	522,623	July 10	775	196	68	166
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Steam-actuated valve for compound direct-acting engines	525,801	Sept. 11	836	190	68	1316
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Ticket-canceling apparatus	528,696	Nov. 6	313	76	69	703
Sergeant, Henry C., Westfield, N. J., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Air-compressor	530,662	Dec. 11	1032	256	69	1421
Serrell, Edward W., New York, N. Y. Pole for electric railways	514,665	Feb. 13	1151	287	66	1088
Serrell, Lemuel W. (See Holden and Serrell.)						
Serve, Jean P., Lyons, France. Tubular boiler	521,442	June 12	1231	291	67	1436
Service, Ansley S., <i>et al.</i> (See Hosack, Thomas T., assignor.)						
Servis, David, Chicago, Ill. Railway-tie-plate	524,868	Aug. 21	1539	376	68	973
Servis Railroad Tie Plate Company. (See Holmes, William W., assignor.)						
Sessions, Charles B., and B. C. Van Emon, San Francisco, Cal. Water-wheel-regulating apparatus	518,282	Apr. 17	1457	364 365	67	299
Sessions, George W., Montclair, N. J. Plaster board partition	511,809	Jan. 2	96	24	66	21
Sessions, Henry H., assignor to Pullman's Palace Car Company, Chicago, Ill. Car-brake	515,555	Feb. 27	2608	646 647	66	1387
Sessions, Samuel W. (See North and Sessions.)						
Sessler, Arnold, New York, N. Y. Insole for slippers	525,746	Sept. 11	737	171	68	1299
Settenger, Frederick, Sandusky, Ohio. End-gate	525,120	Aug. 28	1999	488	68	1071
Seter, Michael, assignor to Western Electric Company, Chicago, Ill. Spring-jack cleaner	521,223	June 12	838	196	67	1362
Seubert, Joseph, Philadelphia, Pa. Vegetable parer and slicer	530,856	Dec. 11	1359	324	69	1477
Severance, Adam W., G. Jamison, and G. W. Braucht, Genesee, Idaho. Self-feeder for thrashing-machines	530,246	Dec. 4	300	75	69	1270
Severy, Melvin L. (See Monks and Severy.)						
Severy, Melvin L., <i>et al.</i> , trustees. (See Monks and Severy, assignors.)						
Severy, Melvin L., Boston, assignor of one-half to F. Doane, Norwood, Mass. Apparatus for mounting and operating thermopiles	527,377	Oct. 9	1150	282	69	228
Severy, Melvin L., Boston, assignor of one-half to F. Doane, Norwood, Mass. Apparatus for utilizing steam for heating thermopiles	527,378	Oct. 9	1151	282 283	69	229
Severy, Melvin L., Boston, assignor of one-half to F. Doane, Norwood, Mass. Apparatus for generating electricity by solar heat	527,379	Oct. 9	1152	283	69	229
Seward, Charles L., Liberty, Ind. Plating apparatus	531,470	Dec. 25	2468	588	69	1713
Seward, Edward A. (See Lenoir and Seward.)						
Seward, Edward C. (See Clouser and Seward.)						
Seward, Edward C. (See Thomas and Seward.)						
Seward, Edward C., Montclair, N. J., assignor, by mesne assignments, to New York Car Switch Company, New York, N. Y. Railway-switch	522,803	July 10	1093	269	68	232
Sewell, Emeline C. (See Sewell, George, assignor.)						
Sewell, George, assignor to E. C. Sewell, Brooklyn, N. Y. Steam-boiler	527,729	Oct. 16	1727	417	69	349
Sewell, James A., Campton, Ky. Calculating-machine	519,973	May 15	1898	443	67	902
Sewell, William N., Clay City, Ky. Combined car and train-pipe coupling	513,249	Jan. 23	2535	611	66	577
Sewrey, Henry, Barrie, Canada. Metal driving-belt	523,012	July 17	1440	360	68	303
Sexton, Daniel, Kansas City, Mo. File-case	522,237	July 3	107	25	68	21
Sexton, Isaac, Somerville, Mass. Self-closing can	521,556	June 19	1440	335	67	1490
Seybold, Charles, Dayton, Ohio. Paper-cutting machine	511,972	Jan. 2	411	95, 96	66	78
Seybold, Charles, assignor to Seybold Machine Company, Dayton, Ohio. Signature-press	514,872	Feb. 13	1491	374	66	1152
Seybold Machine Company. (See Mendham, William, assignor.)						
Seybold Machine Company. (See Seybold, Charles, assignor.)						
Seyfried, Thomas, Upper Nazareth, Pa. Car-coupling	525,234	Aug. 28	2190	534	68	1104
Seymour, Albert P., Syracuse, N. Y. Electric cut-out	512,331	Jan. 9	994	243	66	200
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Gaining-machine	515,253	Feb. 20	2098	521	66	1279
Seymour, Charles, assignor to Defiance Machine Works, Defiance, Ohio. Woodworking-machine	521,155	June 12	769	180	67	1349

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Seymour, Charles E., Lake Geneva, Wis. Cleaning and amalgamating ores.....	511,864	Jan. 2	188	47	66	39
Seymour, Charles E., Lake Geneva, Wis. Ore-concentrator.....	513,832	Jan. 30	3498	362	66	793
Seymour, Dudley S., assignor of one-half to J. Johnston, Hartford, Conn. Breech-loading firearm.....	530,966	Dec. 18	1545	366 367 368	69	1527
Seymour, Dudley S., assignor of one-half to J. Johnston, Hartford, Conn. Shiftable firing-pin and extractor for firearms.....	530,967	Dec. 18	1552	367 368	69	1527
Seymour, Dudley S., assignor of one-half to J. Johnston, Hartford, Conn. Shiftable nose on hammer and automatic extractor for firearms.....	530,968	Dec. 18	1554	368	69	1527
Seymour, Frederick S., Lake Geneva, Wis. Wrench.....	514,781	Feb. 13	1348	337	66	1125
Seymour, Henry A., Washington, D. C., assignor to Short Electric Railway Company, Cleveland, Ohio. Underground electric conductor.....	514,133	Feb. 6	245	59	66	900
Seymour, Henry A., Washington, D. C., assignor to Short Electric Railway Company, Cleveland, Ohio. Closed conduit for electric railways.....	514,134	Feb. 6	246	60	66	900
Seymour, Henry T., New York, N. Y., assignor to Henry Seymour Cutlery Company, of New York. Shears.....	517,244	Mar. 27	2531	594	66	1976
Seymour, Mary E. (See Seymour, William F., assignor.)						
Seymour, William F., Mansfield, assignor of one-half to M. E. Seymour, Mount Vernon, Ohio. Electrical railway-signal.....	525,290	Aug. 28	2277	554	68	1123
Shaaber, Jacob, Reading, Pa. Molding apparatus.....	517,489	Apr. 3	123	27	67	25
Shaar, Jacob. (See Duncker, William F., assignor.)						
Shabley Charles, La Salle, Ill. Apparatus for storing and preserving beer on tap.....	514,508	Feb. 13	893	227	66	1030
Shackelford, T. J., et al. (See Miltonberger, Wynant, and Schott, assignors.)						
Shackelford, Tiffin J., and J. F. Miltonberger, Warsaw, Ind. Adjustable surgical chair.....	520,579	May 29	2249	688 689 690	67	1126
Shadle, Christopher C., et al. (See Green, Ira L., assignor.)						
Shaeffer, Urias, Lancaster, Ohio. Corn-planter.....	512,626	Jan. 9	1480	357	66	291
Shaffer, Richard M., Baltimore, Md. Dough kneader and mixer.....	519,740	May 15	1429	345	67	832
Shaffer, Richard M., Baltimore, Md. Cooking utensil.....	525,968	Sept. 11	1133	258	68	1370
Shaffer, Richard M., Baltimore, Md. Method of and apparatus for producing letters or characters in bread.....	527,027	Oct. 2	582	141	69	110
Shailer, George W., assignor of two-thirds to J. H. Hankins, Palmerston North, New Zealand. Apparatus for ear-marking sheep.....	516,228	Mar. 13	813	190	66	1620
Shailer & Schniglaue Company. (See Wakefield, James A., assignor.)						
Shakspere & Swoop et al. (See Eisler, Stephen N., assignor.)						
Shallenberger, Frank. (See Shallenberger, John W., assignor.)						
Shallenberger, John W., Canal Fulton, assignor of one-half to F. Shallenberger, Massillon, Ohio. Coal-drill.....	518,703	Apr. 24	2195	548	67	446
Shalvey, James J., Gaines, N. Y. Wire fence.....	522,355	July 3	306	79	68	61
Shanabarger, Lewis, Mulberry, Ind. Hay and stock rack.....	516,578	Mar. 13	1398	332	66	1729
Shanafelt, Fred P., Canton, Ohio. Electric fountain.....	518,122	Apr. 10	1176	295	67	230
Shanbeck, John W., Mulberry, Ind. Gate.....	531,223	Dec. 18	2020	481	69	1613
Shank, Charles A., assignor of seven-eighths to A. A. Catanach, P. Boyd, W. Burge, B. P. Wilson, and R. S. Greenfield, Philadelphia, Pa. Artificial stone or cement composition.....	520,662	May 29	2281	.....	67	1150
Shank, Thomas M., Kenova, W. Va. Excelsior-machine.....	520,618	May 29	2211	704	67	1138
Shank, William P., Cairo, Ill. Smoke-arrester.....	521,054	June 5	540	127	67	1295
Shann, Montague H. C., Mendip Hills, Victoria. Water-tube steam-boiler.....	517,174	Mar. 27	2424	570	66	1955
Shann, Montague H. C., Brisbane, Queensland. Furnace.....	518,629	Apr. 24	2061	513	67	422
Shann, Montague H. C., Brisbane, Queensland. Water-tube boiler.....	527,079	Oct. 9	658	160	69	138
Shannock Mica Company. (See Howe, Charles C., assignor.)						
Shannon, John A. (See Coyne and Shannon.)						
Shannon, John E. (See Ingalls, Milo H., assignor.)						
Shannon, Oscar M., Chicago, Ill. Clothes-drier.....	513,285	Jan. 23	2590	627 628	66	589
Shannon, Thomas J., Wolf, Ohio. Folding pie-rack.....	519,007	May 1	111	27	67	557
Sharp, Alonzo, Troy, N. Y. Mechanical movement.....	531,340	Dec. 25	2222	533	69	1666
Sharp, Archibald, London, England. Wheel.....	524,224	Aug. 7	436	103	68	741
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Whiffletree.....	513,286	Jan. 23	2592	623	66	589
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Disk harrow.....	513,287	Jan. 23	2593	628	66	569
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Horse-rake.....	517,490	Apr. 3	124	27, 28	67	26
Sharp, Charles S., assignor to D. M. Osborne & Company, Auburn, N. Y. Horse-rake.....	517,491	Apr. 3	128	28	67	26
Sharp, Edward A., Rogers Park, Ill. Paper-file.....	529,534	Nov. 20	1837	437	69	1019
Sharp, Jacob O., Reidsville, N. C. Sash-fastener.....	526,118	Sept. 18	1387	323	68	1428
Sharp, John C., Delavan, Wis. Stump-extractor.....	521,400	June 19	1310	305 306 18	67	1466
Sharp, John C., Delavan, Wis. Stump-extractor.....	528,567	Nov. 6	66	19 20	69	659
Sharpe, John, Toronto, Canada. Time-stamp.....	512,755	Jan. 16	1729	410 411	66	354
Sharpell, Adolphe C., New York, N. Y. Drying-frame.....	528,991	Nov. 13	859	204	69	823
Sharples, William E., and F. J. Snell, Fall River, Mass. Railway-head and drawing-frame.....	530,358	Dec. 4	503	124	69	1306
Shartle, Charles W. (See Blackie and Shartle.)						
Shartle, Charles W., Middletown, Ohio, assignor to Middletown Machine Company, of Ohio. Slip-collar for pulleys, shafts, &c.....	521,055	June 5	541	127	67	1295
Shattuc, Fred M., Cincinnati, Ohio. Railway-ticket.....	513,151	Jan. 23	2273	573	66	546
Shattuc, Fred M., Cincinnati, Ohio. Railway-ticket.....	513,538	Jan. 30	3026	746	66	705
Shattuck, Linville M., Brookline, N. H. Spike-puller.....	523,181	July 17	1749	439	68	360
Shauer, Louis S., Chicago, Ill. Trousers.....	528,038	Oct. 23	2290	552	69	467
Shaver, Edward D., Niverville, N. Y. Support for swings.....	513,539	Jan. 30	3028	746	66	705
Shaw, A. B. (See Shaw, Nathaniel H. and A. B.)						
Shaw, A. B., Medford, Mass., assignor to New England Automatic Gas Lighting Company, Portland, Me. Time gas lighting and extinguishing apparatus.....	528,697	Nov. 6	314	76.77	69	703
Shaw, A. B., Medford, Mass., assignor to Self-Sealing Bicycle Tire Company, Portland, Me. Making bicycle-tires.....	529,142	Nov. 13	1112	269	69	869
Shaw, Albert C., San Francisco, Cal. Fancet.....	530,663	Dec. 11	1053	256	69	1422
Shaw, Alton J., Muskegon, Mich. Rheostat.....	515,254	Feb. 20	2101	522	66	1279
Shaw, Alton J., Muskegon, Mich. Electric elevator-brake.....	515,255	Feb. 20	2102	522	66	1280
Shaw, Alton J., Muskegon, Mich. Electric elevator-brake.....	515,256	Feb. 20	2104	522	66	1280
Shaw, Alton J., Muskegon, Mich. Rheostat.....	515,304	Feb. 20	2193	544	66	1297
Shaw, Alton J., Muskegon, Mich. Rheostat.....	517,770	Apr. 3	598	147	67	116
Shaw, Alton J., Muskegon, Mich. Commutator-cylinder.....	524,793	Aug. 21	1411	344	68	950
Shaw, Alton J., Muskegon, Mich. Rheostat.....	527,730	Oct. 16	1732	418	69	350

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Shaw, Alton J., Muskegon, Mich. Rheostat.....	528,893	Nov. 6	674	162	69	770
Shaw, Alton J., Muskegon, Mich. Rheostat.....	528,894	Nov. 6	675	163	69	770
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Pawl-and-ratchet mechanism.....	528,614	Nov. 6	161	39	69	675
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Switch-operating mechanism for hoisting machinery.....	528,615	Nov. 6	163	39, 40	69	675
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Crane.....	528,616	Nov. 6	165	40	69	676
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Antifriction-bearing.....	528,617	Nov. 6	167	40, 41	69	676
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Hoisting machinery.....	528,618	Nov. 6	168	41	69	676
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Hoisting machinery.....	528,619	Nov. 6	170	41, 42	69	676
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Electric hoisting machinery.....	528,620	Nov. 6	171	42	69	677
Shaw, Alton J., assignor to Shaw Electric Crane Company, Muskegon, Mich. Hoisting machinery.....	528,621	Nov. 6	173	42, 43	69	677
Shaw, Andrew J., Connelleville, assignor of one-half to J. H. Shaw and T. Lindsay, Glenwood, Pa. Draw-gear for railway-cars.....	512,756	Jan. 16	1733	{ 411 412 }	66	355
Shaw, Charles A., Revere, Mass. Burner for illuminating-gas.....	522,088	June 26	2375	571	67	1621
Shaw, Charles H., Brooklyn, N. Y. Cash drawer and register.....	527,220	Oct. 9	882	{ 214 215 }	69	179
Shaw, David. (See Becwar and Shaw.)						
Shaw Electric Crane Company. (See Brown, George A., assignor.)						
Shaw Electric Crane Company. (See Shaw, Alton J., assignor.)						
Shaw, Frank E. (See Botsford, Frederick G., assignor.)						
Shaw, George E., Cincinnati, Ohio. Pulp burial-casket and making same.....	528,612	Nov. 6	152	37	69	674
Shaw, George E., Cincinnati, Ohio. Pulp-compression apparatus.....	528,613	Nov. 6	155	38	69	674
Shaw, George V., assignor of two-thirds to J. S. Donellan and O. B. Ridgeway, Dubuque, Iowa. Nutmeg-grater.....	518,704	Apr. 24	2197	548	67	446
Shaw, Henry. (See Shaw, William, H., and J.)						
Shaw, James C., Hannibal, Mo. Feed-water-pipe heater.....	517,771	Apr. 3	601	147	67	116
Shaw, James L., Seneca, Ill. Machine for sharpening harrow-disks.....	517,810	Apr. 3	659	165	67	128
Shaw, James T., Waco, Tex. Stamp sticking or sealing machine.....	529,141	Nov. 13	1111	269	69	869
Shaw, John, trustee, et al. (See Clift, Edmund E., assignor.)						
Shaw, Joseph. (See Shaw, William, H., and J.)						
Shaw, Joseph H., et al. (See Shaw, Andrew J., assignor.)						
Shaw, Nathaniel H., Somerville, Mass. Frame-saw.....	525,365	Sept. 4	78	21	68	1165
Shaw, Nathaniel H., Somerville, and A. B. Shaw, Medford, Mass., assignors to New England Automatic Gas Lighting Company, Portland, Me. Automatic gas lighting and extinguishing apparatus.....	520,836	June 5	151	33	67	1225
Shaw, Noah T., Columbus, assignor of one-half to C. B. Palmer, Franklin county, Ohio. Church-truck.....	531,471	Dec. 25	2469	558	69	1713
Shaw, Thomas, Philadelphia, Pa. Governor for pumping-engines.....	515,371	Feb. 27	2314	574	66	1332
Shaw, Thomas F. (See Corbett, Joseph and E. K., assignors.)						
Shaw, Wilber S., Dallas, Tex. Cuff-holder.....	526,821	Oct. 2	249	61	69	47
Shaw, William, Brooklyn, N. Y. Apparatus for printing carpet-yarn.....	514,282	Feb. 6	528	130	66	953
Shaw, William A., Pittsburg, Pa. Reactionary gas-motor engine.....	523,734	July 31	2717	673	68	568
Shaw, William, H., and J., Jacksonville, Fla. Skylight for photographic galleries.....	517,564	Mar. 27	2737	643	66	2016
Shaw, William P., assignor of one-half to R. D. Ward, Boston, Mass. Portable bench-vice.....	513,206	Jan. 23	2453	593	66	561
Shay, Ephraim and L., Harbor Springs, Mich. Hose-cart.....	521,868	June 26	1973	476	67	1607
Shay, Lettie. (See Shay, Ephraim and L.)						
Shay, Wilmot W. (See Kilgore, John S., assignor.)						
Shea, John W., Covington, Ky. Movable arm-rest for writing purposes.....	520,711	May 29	3083	745	67	1169
Shea, Tim, Knoxville, Tenn. Car-coupling.....	519,480	May 8	978	{ 236 237 }	67	737
Sheahan, Joseph F., New York, N. Y. Motor-regulator.....	524,615	Aug. 14	1117	275	68	824
Shearer, Albert W., assignor of one-half to W. S. Felker, Omaha, Nebr. Water-tube steam-boiler.....	522,238	July 3	108	25, 26	68	21
Shearer, Arthur, and R. E. Clapp, London, England. Making phosphorus.....	527,163	Oct. 9	795	194	69	162
Shearer, George B., Oneonta, N. Y. Locking device for piano-pedals.....	518,163	Apr. 10	1239	311	67	241
Shearer, Theodore M., Butler, Pa. Steam-hammer.....	517,150	Mar. 27	2373	561	66	1945
Shearer, Thomas J., assignor of one-half to J. J. Beechler, Indianapolis, Ind. Cistern.....	521,869	June 26	1974	477	67	1607
Shearer, Solomon. (See Feishtinger, Charles W., assignor.)						
Shearman, John, New York, N. Y. Valve for air and gas meters.....	519,481	May 8	980	237	67	737
Shebesta, Michael. (See Clark and Shebesta.)						
Sheckler, Peter, Stockton, Kans. Magazine-firearm.....	521,624	June 19	1557	364	67	1511
Shedd, Edward W. (See Shedd, Joel H., assignor.)						
Shedd, Joel H., Providence, R. I., assignor to E. W. Shedd, Worcester, Mass. Engineer's tape-reel.....	516,282	Mar. 13	895	211	66	1637
Shedlock, William, London, England. Feed-water heater and purifier.....	520,084	May 22	2002	{ 489 490 }	67	954
Sheehy, James J., Washington, D. C. Clothes-pounder.....	523,601	July 24	2465	619	68	506
Sheets, Hank R., St. Louis, Mo. Clothes-drier.....	524,869	Aug. 21	1540	376	68	972
Sheffield, Herbert A., Chagrin Falls, Ohio. Sad-iron handle.....	522,678	July 10	858	213	68	181
Sheffield, James T., Newark, N. Y. Cutting-board.....	514,096	Feb. 6	191	44	66	890
Sheffield, Julian N., Manchester, N. Y. Beehive.....	525,747	Sept. 11	739	171	68	1299
Sheldon, Alfred, Wells, England. Machine for making paper-pulp.....	517,149	Mar. 27	2372	{ 560 561 }	66	1945
Sheldon, Cevadra B., Brooklyn, N. Y., assignor to L. W. Case, Montclair, N. J. Bottle-stopper.....	529,813	Nov. 27	2290	546	69	1111
Sheldon, Cevadra B., Brooklyn, N. Y., assignor to L. W. Case, Montclair, N. J. Pneumatic tire.....	530,803	Dec. 11	1275	308	69	1463
Sheldon, Herbert F., Melrose, Mass. Bicycle.....	519,557	May 8	1124	270	67	763
Sheldon, Irving L., Danbury, Conn. Cyclometer.....	515,257	Feb. 20	2107	523	66	1281
Sheldon, Mark A., Detroit, Mich. Curling-iron holder.....	522,033	June 26	2291	548	67	1664
Sheldon, Rosecrans, Chicago, Ill. Copy-holder.....	519,048	May 1	177	42	67	570
Sheldon, Willard C., Grand Haven, Mich. Latch.....	516,229	Mar. 13	815	190	66	1620
Sheldon, William J., Middletown, Pa. Fish-plate splice for connecting railway-rails.....	521,481	June 19	1316	306	67	1468
Shellabarger, Edward F., De Kalb, Ill. Metal corner-piece for frames.....	518,828	Apr. 24	2411	597	67	453
Shellabarger, Edward F., De Kalb, Ill. Wire fence.....	522,536	July 3	612	156	68	120
Shellabarger, Flavious W., Dayton, Ohio. Machine for weaving cross-wires in wire fences.....	523,415	July 24	2145	538	68	449
Shellabarger, F. H., et al. (See Dodder, George W., assignor.)						
Shellenback, Peter, assignor to Liberty Manufacturing Company, Liberty, Ind. Machine for finishing eccentric surfaces.....	526,639	Sept. 25	2277	545	68	1609

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Shellenback, William, Richmond, Ind. Engine turning-lathe.....	518,164	Apr. 10	1242	{ 311 312 }	67	241
Shelley, Rose M., assignor to R. Stapley, W. and H. Smith, London, England. Combination-garment.....	512,229	Jan. 2	827	200	66	156
Shelton, Lawson B., and N. Gentry, Denver, Colo. Folding bed.....	523,948	July 31	3107	773	68	642
Shelton, Thomas W., St. Louis, Mo. Rheostat.....	530,727	Dec. 11	1157	281	69	1440
Shenk, Jacob M., <i>et al.</i> (See Conrad, William H., assignor.)						
Shenston, Thomas S., Brantford, Canada. Inkstand.....	523,813	Nov. 6	516	{ 124 125 }	69	740
Shepard, Alfred M. (See Smith and Shepard.)						
Shepard, Amos, Plantsville, assignor to Peck, Stow & Wilcox Company, Southington, Conn. Spring-balance.....	519,353	May 8	771	188	67	700
Shepard, Amos, Plantsville, assignor to Peck, Stow & Wilcox Company, Southington, Conn. Stove-lid lifter.....	521,557	June 19	1441	335	67	1490
Shepard, Frank P., assignor of one-half to E. T. Stoddard, Cincinnati, Ohio. Spring-bammer.....	514,385	Feb. 6	686	173	66	982
Shepard, Garrett S. (See Butler and Shepard.)						
Shepard, John F., Jackson, Mich. Vehicle-brake.....	518,928	Apr. 24	2579	638	67	516
Shepard, O. Atherton. (See Hussey, Albertus, assignor.)						
Shepard, Sylvander C., assignor of one-half to C. A. Treat, Hannibal, Mo. Rotary steam-engine.....	525,121	Aug. 28	2000	489	68	1071
Shepard, Sylvander C., assignor of one-half to C. A. Treat, Hannibal, Mo. Rotary force-pump.....	528,347	Oct. 30	2825	683	69	579
Shepard, Wilbur L., assignor to Whitlock Coil Pipe Company, Elmwood, Conn. Hot-water heater.....	527,890	Oct. 23	2015	484	69	417
Shepardson, Byron W. (See Shepardson, George R. and B. W.)						
Shepardson, George R. and B. W., Kalamazoo, Mich. Time-check receiver.....	529,468	Nov. 20	1713	{ 408 409 }	69	998
Sheppard, Richard. (See Bateman, George C., assignor.)						
Sheppard, Henry F., New York, N. Y. Vehicle-brake shoe.....	527,296	Oct. 9	1018	247	69	203
Sheppard, John A., New York, N. Y. Bottle lock-stopper.....	516,027	Mar. 6	478	111	66	1541
Shephard, John H., assignor of one-half to R. C. Blackall, Albany, N. Y. Rod for slide-valves.....	519,458	May 8	934	225	67	731
Shepherd, Frank J., and M. B. Flagg, Minneapolis, Minn. Sales-slip.....	526,002	Sept. 11	1185	271	68	1379
Shepherd, Job, Lower Bredbury, near Stockport, assignor to himself and T. B. Leigh, Heaton, Mersey, near Manchester, England. Machine for making molds and cores to be used in casting metal pipes, &c.....	530,857	Dec. 11	1360	325	69	1477
Shepherd, John, Memphis, Mich. Hopper.....	516,316	Mar. 13	944	222	66	1646
Shepherd, John, assignor of two-thirds to G. Barton, Memphis, Mich. Cistern-cleaning machine.....	519,074	May 1	234	55	67	581
Shepherd, Robert M., <i>et al.</i> (See Williams, James F. and E. J., assignors.)						
Shepherd, William G., Erie, Pa. Steam-engine valve.....	514,509	Feb. 13	894	{ 227 228 }	66	1030
Shepherd, William G., Erie, Pa. Steam-engine valve.....	526,847	Oct. 2	289	70	69	55
Shepherd, William G., Erie, Pa. Steam-engine governor.....	529,507	Nov. 20	1785	425	69	1009
Shepley, Harry. (See Gray and Shepley.)						
Sheppard, Edwin, Philadelphia, Pa. Auxiliary heater.....	518,864	Apr. 24	2460	609	67	493
Sheppard, William H., New York, N. Y. Lighting implement.....	519,354	May 8	772	188	67	700
Shepherd, Sylvanus D., assignor to Backus Water Motor Company, Newark, N. J. Gas-engine.....	521,443	June 12	1232	{ 291 292 }	67	1436
Sherbrook, Jesse D., Winnetoon, Nebr. Speculum.....	530,728	Dec. 11	1158	281	69	1440
Sherburne, Charles W., Boston, Mass., assignor to Automatic Track Sanding Company, Portland, Me. Railway-track-sanding apparatus. (Reissue).....	11,424	July 3	680	173	68	132
Sherer, Charles M., Lawrence, Kans. Fan attachment for swings, &c.....	523,416	July 24	2146	538	68	449
Sheridan, C. B., <i>et al.</i> (See Smith, Charles L., assignor.)						
Sheridan, Frank H., Canton, Ohio. Bookcase.....	516,774	Mar. 20	1730	407	66	1805
Sheridan, James H., Fitchburg, Mass. Arbor-press.....	527,731	Oct. 16	1733	418	69	350
Sheridan, T. W., <i>et al.</i> (See Smith, Charles L., assignor.)						
Sheriff, Charles G., Hot Sulphur Springs, Colo. Halter.....	520,381	May 22	2521	610	67	1050
Sherman, George W., Pearsall's, N. Y. File for newspaper-clippings.....	514,244	Feb. 6	474	116	66	942
Sherman, George W., assignor to Tutti Frutti Automatic Vending Company, Brooklyn, N. Y. Vending apparatus.....	511,865	Jan. 2	191	47, 48	66	40
Sherman, John J., Jr., Chicago, Ill. Wood-turning machine.....	524,870	Aug. 21	1542	{ 376 377 }	68	973
Sherman, John S., <i>et al.</i> (See Mummery, Edwin G., assignor.)						
Sherman, Moses, and C. Goodman, St. Louis, Mo. Exhibit-case.....	516,454	Mar. 13	1187	255	66	1690
Sherman, Stephen F., Newark, N. Y. Folding box.....	516,124	Mar. 6	623	146	66	1569
Sherman, Stephen F., Newark, N. Y. Folding box.....	520,341	May 22	2459	{ 596 597 }	67	1037
Sherman, Stephen F., assignor to H. A. S. Bloomer, Newark, N. Y. Knockdown crate.....	517,413	Mar. 27	2854	668	66	2039
Sherman, William P., Bntie, Mont. Exhibitor for caskets or coffins.....	518,335	Apr. 17	1553	386	67	316
Sherman, Willis D., Brooklyn, N. Y. Steam-engine.....	530,555	Dec. 11	867	214	69	1389
Sherman, Willis D., assignor to himself, C. B. Johnson, J. J. Wilson, E. H. Baillie, F. B. Johnson, and E. Snedeker, Brooklyn, N. Y. Hoisting and transfer apparatus.....	518,901	Apr. 24	2532	{ 626 627 }	67	508
Sherman, Willis S., Hermansville, Mich. Boring or drilling machine.....	515,506	Feb. 27	2522	625	66	1371
Sherrer, Philip, <i>et al.</i> (See Reinhard, Thomas J., assignor.)						
Sherrer, Philip, <i>et al.</i> (See Schmitt, George, assignor.)						
Sherry, Frank, Jacksonville, Ill. Tug-adjuster.....	527,732	Oct. 16	1735	418	69	350
Sherry, John, Rochester, N. Y. Torch.....	529,631	Nov. 20	1984	473	69	1047
Sherwin, Fred D., Edgar, Nebr. Dental saliva-ejector.....	530,556	Dec. 11	868	214	69	1390
Sherwood, Arthur K., Thompsonville, Conn. Supporting attachment for bicycles.....	514,044	Feb. 6	109	26	66	874
Sherwood, Charles H., Utica, assignor of one-half to H. C. Lyman, Sherburne, N. Y. Automatic pneumatic railway-gate.....	526,872	Oct. 2	337	83, 84	69	64
Sherwood, Charles H., Utica, assignor of one-half to H. C. Lyman, Sherburne, N. Y. Flanger guard-rail.....	526,873	Oct. 2	340	84	69	64
Sherwood, Charles H., Utica, assignor of one-half to H. C. Lyman, Sherburne, N. Y. Railway block-signal.....	530,311	Dec. 4	412	103	69	1290
Sherwood, Charles K., Brooklyn, N. Y. Car attachment.....	530,359	Dec. 4	504	124	69	1307
Sherwood, Charles L., Faribault, assignor of one-third to O. W. Ball, Rice county, Minn. Combined refrigerator and filter.....	521,559	June 19	1443	336	67	1490
Sherwood, Henry L., Washington, D. C. Bicycle.....	514,782	Feb. 13	1349	337	66	1125
Sherwood Manufacturing Company. (See Hart, Thomas J., assignor.)						
Shibeody, R. H. (See Van Gestel, Jean T., assignor.)						
Shibeley, Charles W., assignor to National Cash Register Company, Dayton, Ohio. Cash register and indicator.....	524,812	Aug. 21	1441	353	68	956

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Shidler, Artimus W., and W. P. Hendrickson, Farmington, N. Mex. Ter. Pump.....	529,966	Nov. 27	2552	615	69	1160
Shields, Augustus O., Kingston, Tex. Register for odometers.....	525,630	Sept. 4	513	123	68	1247
Shields, Charles W., <i>et al.</i> (See Erickson, Ole S., assignor.)						
Shields, Christopher, Philadelphia, Pa. Pipe-coupling.....	514,734	Feb. 13	1274	318	66	1111
Shields, David. (See Harvey and Shields.)						
Shields, George A., assignor to Shields Manufacturing Company, Anderson, Ind. Safety-guard for rip-saws.....	528,562	Oct. 30	2684	647	69	555
Shields, M. J., <i>et al.</i> (See Erickson, Ole S., assignor.)						
Shields Manufacturing Company. (See Shields, George A., assignor.)						
Shields, William E., assignor of one-half to W. H. Young, Nashville, Mich. Power-transmitter for windmills.....	522,307	July 3	228	61	68	46
Shiels, Alexander, Glasgow, Scotland. Vacuum-regulating apparatus for milking-machines.....	513,624	Jan. 30	3166	777 778	66	730
Shiels, Alexander, Glasgow, Scotland. Vacuum-controlling apparatus for milking-machines.....	513,625	Jan. 30	3169	778 779	66	731
Shiels, Alexander, Glasgow, Scotland. Teat-cup for milking-machines.....	524,738	Aug. 21	1320	323	68	933
Shigon, Nathan A., assignor of three-fifths to B. Fischman, New York, N. Y. Pocket savings-bank.....	517,175	Mar. 27	2425	570	66	1955
Shill, Richard E., deceased, London, England; M. Bailey, administrator. Crushing or grinding mill.....	523,085	July 17	1551	389	68	325
Shimer, Elmer S., Milton, Pa. Type-writing machine.....	511,912	Jan. 2	314	73, 74	66	61
Shimer, Elmer S., Milton, Pa. Type-writing machine.....	512,064	Jan. 2	559	132 133	66	107
Shimer, Samuel J., Milton, Pa. Cutter-head.....	527,080	Oct. 9	659	161	69	139
Shiner, John M. R., <i>et al.</i> (See Young, George C., assignor.)						
Shinkle, Bradford, <i>et al.</i> (See Hodgson, Albert J., assignor.)						
Shipe, Walter S., Brooklyn, N. Y. Sput for boilers.....	517,592	Apr. 3	288	67	67	57
Shipe, Walter S., Brooklyn, N. Y. Apparatus for inserting, finishing, and securing spuds in boilers.....	521,825	June 26	1906	457	67	1594
Shipley, Alfred J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Button-setting machine.....	531,224	Dec. 18	2022	482	69	1613
Shipley, Alfred J., and T. R. Hyde, Jr., assignors to Scovill Manufacturing Company, Waterbury, Conn. Button.....	522,239	July 3	110	26	68	21
Shipley, John W., Baltimore, Md. Water-motor.....	517,667	Apr. 3	426	103	67	82
Shipley, Peter C., assignor of one-third to O. E. Jackson, Red Oak, Iowa. Ledger-plate.....	520,807	June 5	84	19	67	1213
Shipman, John C., Sunbury, Pa. Crossing-frog.....	527,297	Oct. 9	1019	248	69	203
Shippee, Charles W., Milford, Mass. Waterproof boot or shoe and making same.....	529,880	Nov. 27	2402	575	69	1134
Shippee, Charles W., Milford, Mass. Waterproof boot or shoe.....	529,881	Nov. 27	2403	575	69	1134
Shirley, Frank O. (See Gunner and Shirley.)						
Shirley, George F. (See Nickles and Shirley.)						
Shirley, William T., St. Elmo, Tenn. Advertising-machine.....	528,814	Nov. 6	518	125 126	69	740
Shleacow, Charles, Lethbridge, Canada. Fly-trap.....	527,321	Oct. 9	888	215	69	180
Shockley, William L., Colorado Springs, Colo. Car-fender.....	526,949	Oct. 2	463	114	69	87
Shoe, William W., Wallingford, Pa. Stove-door knob.....	530,267	Dec. 4	377	93	69	1284
Shoemaker, John A., Rochester, N. Y. Sand-blast machine.....	523,907	July 31	3016	750 751	68	624
Shoemaker, Robert, Jr., Philadelphia, Pa. Pill-compressing machine.....	527,562	Oct. 16	1453	354	69	298
Shoemaker, Simon, assignor of one-half to J. R. H. Smith, Shasta, Cal. Revolving harrow.....	517,365	Mar. 27	2738	643	66	2017
Shoemaker, William C., Richmond, Ind. Fence-machine.....	522,125	June 26	2436	586	67	1692
Shogren, Henry, assignor to himself and N. J. Blagen, Portland, Oreg. Tool-holder.....	512,911	Jan. 16	2002	474	66	406
Sholder, Louis H., Cleveland, Ohio. Window-screen.....	528,992	Nov. 13	860	204	69	824
Sholder, Louis H., Cleveland, Ohio. Strap-hinge.....	530,729	Dec. 11	1159	221	69	1440
Sholes, Zalmou G., Chicago, Ill., assignor to Remington-Sholes Typewriter Company, of Illinois. Way for reciprocating parts of machines.....	521,185	Aug. 7	368	87	68	728
Sholes, Zalmou G., Chicago, Ill., assignor to Remington-Sholes Typewriter Company, of Illinois. Keyboard.....	527,542	Oct. 16	1425	347	69	293
Sholes, Zalmou G., Chicago, Ill., assignor to Remington-Sholes Typewriter Company, of Illinois. Type-writing machine.....	527,543	Oct. 16	1425	347	69	293
Sholes, Zalmou G., Chicago, Ill., assignor to Remington-Sholes Typewriter Company, of Illinois. Type-writing machine.....	527,544	Oct. 16	1428	347 348	69	294
Sholes, Zalmou G., Chicago, Ill., assignor to Remington-Sholes Typewriter Company, of Illinois. Type-writing machine.....	527,545	Oct. 16	1429	348	69	294
Sholl Steel Whiffletree Manufacturing Company. (See Pedersen, George, assignor.)						
Shorb, Thomas J., Cape Girardeau, Mo. Elevated railway.....	529,757	Nov. 27	2193	523	69	1094
Shorey, George E. (See Shorey, Reuben A. and G. E.)						
Shorey, Reuben A. and G. E., Fairfield, assignors to J. E. Kelley, Randolph, and G. T. Curtis, Freeport, Me. Portable swing.....	531,472	Dec. 25	2471	588	69	1713
Short, Charles F., New York, N. Y. Door-check.....	514,735	Feb. 13	1274	318	66	1111
Short Electric Railway Company. (See Seymour, Henry A., assignor.)						
Short Electric Railway Company. (See Short, Sidney H., assignor.)						
Short, Henry L., Larue, Ohio. Hay-stacker.....	520,808	June 5	85	19, 20	67	1213
Short, Mary A., <i>et al.</i> (See Schmitt, George, assignor.)						
Short, Sidney H., assignor to Short Electric Railway Company, Cleveland, Ohio. Span-wire for overhead electric railways.....	513,426	Jan. 23	2800	686	66	629
Short, Sidney H., assignor to Short Electric Railway Company, Cleveland, Ohio. Motor-controlling device for electric locomotives.....	514,135	Feb. 6	247	60	66	901
Short, Sidney H., assignor to Short Electric Railway Company, Cleveland, Ohio. Regulator for electric motors.....	514,429	Feb. 6	745	190	66	994
Shortill, William J., Ballinacree, Canada. Cradle.....	530,858	Dec. 11	1362	325	69	1478
Shortt, Edward G., Carthage, assignor to C. G. Emery, trustee, New York, N. Y. Air-brake mechanism.....	530,904	Dec. 11	1434	340	69	1492
Shortt, Edward G., Carthage, assignor to C. G. Emery, trustee, New York, N. Y. Throttle-actuating mechanism for locomotives.....	530,905	Dec. 11	1436	341	69	1492
Shortt, Edward G., Carthage, assignor to C. G. Emery, trustee, New York, N. Y. Railway-torpedo.....	530,906	Dec. 11	1437	341	69	1492
Shottenberg, Theodore H., assignor of one-half to J. H. Denison, Hubbard, Ohio. Horse-checking device.....	528,698	Nov. 6	315	77	69	703
Shough, Jacob L., near Somerset, Ohio. Car-coupling.....	524,030	Aug. 7	105	22	68	681
Shoup, Samuel, Clifton Heights, Pa. Autographic register.....	524,000	Aug. 7	57	13	68	672
Shovar, Frederick J., <i>et al.</i> (See Gilling, Frank E., assignor.)						
Showalter, Levi, Beetown, Wis. Car-coupling.....	525,802	Sept. 11	838	190	68	1317
Showell, Edward, Atchison, Kans. Combined pulverizer and planter.....	520,454	May 29	2640	638	67	1088

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Shoyer, Frederick J., administrator. (See Shoyer, William.)						
Shoyer, William, deceased; F. J. Shoyer, Philadelphia, Pa., administrator. Hat-curler's iron-stand	523,558	July 10	1167	291	68	237
Shrader, Charles D., Logan, Nebr. Home-staple	512,230	Jan. 2	528	200	66	157
Shrader, Clarence D., New Albany, Ind. Attachment for coffins	519,649	May 8	1285	307	67	792
Shreiner, Edward. (See Leininger and Shreiner.)						
Shreiner, Edward M., et al. (See Best, Clearmont V., assignor.)						
Shrewsbury, Albert D., assignor to American By-Product and Coke Oven Company, Charleston, W. Va. Coke-oven	523,602	July 24	2466	{ 619 620 }	68	506
Shriver & Co., T. (See Roth, William, assignor.)						
Shriver, Lorman P., Chicago, Ill. Puzzle	526,544	Sept. 25	2131	511	68	1580
Shuart, Benjamin F., Kent, Ohio. Scraper	520,085	May 22	2004	490	67	954
Shuck, John M., and T. E. Martin, Des Moines, Iowa. Brick-kiln	516,615	Mar. 13	1458	{ 344 345 }	66	1740
Shuey, William P. (See Kinley and Shuey.)						
Shufelt, Harry H., Chicago, Ill. Siphon	530,606	Dec. 11	950	293	69	1404
Shugg, John H., Boston, Mass., assignor to General Electric Company, of New York. Insulated armature-coil	522,859	July 10	1168	292	68	217
Shulerud, Nels, Chicago, Ill. Folding couch	517,891	Apr. 10	774	193	67	164
Shult, Jesper C., Branchport, N. Y. Lantern	526,058	Sept. 18	1278	296	68	1409
Shultis, Duane J. (See Shultis, Jordan and D. J.)						
Shultis, Jordan and D. J., Los Angeles, Cal. Machine for the manufacture of asphaltum pipe	522,946	July 10	1322	329	68	266
Shults, Frank J., et al. (See Schad, Barnhard, assignor.)						
Shults, George J., Dansville, N. Y. Self-adjusting foot-rest	530,859	Dec. 11	1363	325	69	1478
Shults, Joseph C., et al. (See Schad, Barnhard, assignor.)						
Shultz, Carl A., Kansas City, Mo. Scissors	512,451	Jan. 9	1216	294	66	241
Shultz, Carl A., Kansas City, Mo. Buttonhole-cutter	512,452	Jan. 9	1217	294	66	241
Shultz, Charles H., assignor of one-half to J. W. Whilans, Valentine, Nebr. Check-hook eye	515,798	Mar. 6	114	27	66	1475
Shultz, Edward L., Springfield, Mass. Gearing for bicycles	518,970	May 1	54	14	67	546
Shultz, Harry C., et al. (See Senior, James W., assignor.)						
Shurtleff, Asahel M., assignor to Codman & Shurtleff, Boston, Mass. Atomizer	524,958	Aug. 21	1683	413	68	997
Shumard, Eugene C., assignor of one-half to O. P. Williams, Milford, Ohio. Bottle	530,288	Dec. 4	379	93	69	1284
Shuster, Ira B. (See Shuster, Mathias L., assignor.)						
Shuster, Mathias L., assignor of one-half to I. B. Shuster, Mineral Point, Ohio. Dust-conveyer for thrashing-machines	531,280	Dec. 18	2121	508	69	1631
Shute, James L., assignor of one-half to W. T. Merchant, Gloucester, Mass. Brush	524,654	Aug. 14	1177	289	68	895
Shute, Richard A., San Diego, Cal. Bridle-bit	529,814	Nov. 27	2292	547	69	1112
Shutt, Joseph, East New York, N. Y. Switch for city railways	519,741	May 15	1431	345	67	832
Shydecker, Eugene, assignor of two-thirds to J. H. Moore, San José, Cal. Steam-engine	516,064	Mar. 6	539	{ 125 126 }	66	1553
Shydecker, Eugene, San Francisco, assignor of four-fifths to J. H. Moore and C. F. Bailey, San José, Cal. Steam-boiler	527,624	Oct. 16	1555	377	69	317
Sibbel, Eli D., and F. Longabach, Fremont, Ohio. Vegetable-slicer	513,833	Jan. 30	3502	862	66	794
Sicard, William. (See Lamm and Sicard.)						
Siccardi, Giovanni B., New York, N. Y. Street-sweeper	526,794	Oct. 2	207	49	69	39
Sidebotham, William, New York, N. Y. Hoof hoot and pad	519,822	May 15	1561	382	67	857
Sieber, John G. (See Loewer and Sieber.)						
Sieber, John G., Louisville, Ky. Switch-thrower	531,473	Dec. 25	2472	589	69	1713
Siegenthaler, George, Fremont, Ohio. Nut-lock	523,679	July 10	559	213	68	182
Siekman, Anthony C., assignor of one-half to A. V. Blanke, Medford, Mass. Blind-hinge	525,366	Sept. 4	79	21	68	1165
Siemens, Charles W., deceased, Guarantee Trust and Safe Deposit Company, Philadelphia, Pa., administrator. Conduit electric railway	522,743	July 10	907	248	68	204
Siemens, Ernst W. von, assignor to Siemens & Halske, Berlin, Germany. Electric railway	520,356	May 22	2481	602	67	1041
Siemens & Halske. (See Benjamin, George H., assignor.)	520,274	May 22	2347	{ 569 570 }	67	1016
Siemens & Halske. (See Engelhardt, Victor, assignor.)						
Siemens & Halske. (See Frischen, Johann H., assignor.)						
Siemens & Halske. (See Frischen and Pfeil, assignors.)						
Siemens & Halske. (See Hayn, Friedrich W. N. E., assignor.)						
Siemens & Halske. (See Heffner-Altenneck, Friedrich von, assignor.)						
Siemens & Halske. (See Heller, Adolf, assignor.)						
Siemens & Halske. (See Hoffmann, Carl, assignor.)						
Siemens & Halske. (See Hoffmann and Richter, assignors.)						
Siemens & Halske. (See Kuchenmeister, Emil, assignor.)						
Siemens & Halske. (See Moderegger, Carl, assignor.)						
Siemens & Halske. (See Moderegger, Karl, assignor.)						
Siemens & Halske. (See Richter, Ernst, assignor.)						
Siemens & Halske. (See Schwieger, Heinrich, assignor.)						
Siemens & Halske. (See Siemens, Ernst W. von, assignor.)						
Siemens & Halske. (See Wendelin, Wolfgang, assignor.)						
Siemens & Halske. (See Zickermann, Fritz, assignor.)						
Sievers, Gus, et al. (See Raymond, Emmet B., assignor.)						
Sievert, Paul, Döhlen, Germany. Apparatus for producing flat objects of glass	528,240	Oct. 30	2649	{ 633 639 }	69	548
Sievert, Paul, Döhlen, near Dresden, Germany. Producing flat objects of glass	530,289	Dec. 4	379	93	69	1284
Sigafoos, Russel B., Racine, Wis. Furniture	531,010	Dec. 18	1629	{ 386 387 }	69	1542
Sigelen, Christian A., Indianapolis, Ind. Pneumatic inkstand	531,474	Dec. 25	2474	589	69	1714
Sigler, David W., Union City, Ohio. Fence-post	514,569	Feb. 13	987	250	66	1057
Sigler, John D., San Francisco, Cal. Planer feed-roll	521,297	June 12	966	229	67	1385
Sigurdsson, Oddur V., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine	524,225	Aug. 7	523	124	68	756
Sigwart, Otto. (See Momper and Sigwart.)						
Silberstein, Samuel, assignor to W. A. Dunlap, Pittsburg, Pa. Hanger for eaves-troughs	524,186	Aug. 7	369	87	68	729
Sill, Elmer S., Massena, Iowa. Brake for bicycles	519,742	May 15	1432	345	67	832
Sill Stove Works. (See Clunies, Arthur B., assignor.)						
Siller, Gottlob, Esslingen, Germany. Vise	526,753	Oct. 2	139	33	69	27
Silliman, Benjamin F., Cleveland, Ohio. Gas-compressor	527,081	Oct. 9	661	161	69	139
Silliman, George L., Rutland, Vt. Fire-escape	520,860	Dec. 11	1364	326	69	1479
Sills, Samuel, and J. E. Wood, Thornton, R. I. Hosiery	517,593	Apr. 3	289	67	67	57
Silsbee, Joseph L., Chicago, Ill. Railway construction	527,891	Oct. 23	2016	484	69	417

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Silver, Marvin C., Tunkhannock, Pa. Spring bed-bottom	514,386	Feb. 6	687	{ 173 174 }	66	982
Silver, Sam D., Idaho Springs, Colo. Detonating burglar-alarm	531,428	Dec. 25	2380	569	69	1696
Silvey, Faines N., Clarence, Ala. Permutation-padlock	514,387	Feb. 6	689	174	66	983
Silvey, William L., Dayton, Ohio. Making secondary-battery plates	512,757	Jan. 16	1734	412	66	355
Silvey, William L., Dayton, Ohio. Making battery-plates	523,055	July 17	1512	378	68	317
Silvey, William L., Dayton, Ohio. Making secondary-battery plates	523,689	July 31	2635	654	63	553
Silvey, William L., Dayton, Ohio. Making stiffened connectors for secondary-battery plates	523,949	July 31	3108	774	68	642
Silvey, William L., Dayton, Ohio. Electric motor	524,407	Aug. 14	783	{ 191 192 }	68	821
Silvey, William L., Dayton, Ohio. Separator for battery-plates	524,843	Aug. 21	1504	368	68	966
Silvey, William O. (See Root and Silvey.)						
Simandl, Joseph. (See Bork and Simandl.)						
Simkins, Walter, London, England. Repetition attachment for pianofortes	527,028	Oct. 2	584	{ 141 142 }	69	110
Simmer, Mathias M., Henderson, Minn. Background-carrier for photographers	512,333	Jan. 9	997	244	66	200
Simmonite, George, and H. L. Holderness, Hull, England. Saddle for cycles	516,230	Mar. 13	816	{ 190 191 }	66	1621
Simmons, Charles H. (See Musselmann, John E., assignor.)						
Simmons, George E., East Monroe, Ohio. Wire-and-picket-fence machine	520,544	May 29	2792	{ 674 675 }	67	1115
Simmons, Henry L., Wickes, Mont. Rail-brake	513,207	Jan. 23	2454	593	66	561
Simmons, Henry L., Wickes, Mont. Amalgamator	528,815	Nov. 6	523	126	69	740
Simmons, Horatio C., North Bennington, Vt. Steam heating apparatus	513,369	Jan. 23	2717	660	66	612
Simmons, Samuel J., assignor of one-half to W. O. Simmons, Boston, Mass. Shoestring-fastener	514,284	Feb. 6	533	131	66	953
Simmons, Samuel J., assignor of one-half to W. O. Simmons, Boston, Mass. Shoe-lacing fastener	515,844	Mar. 6	184	44	66	1487
Simmons, William C., Troy, N. Y. Cash-box	523,086	July 17	1552	339	68	325
Simmons, William H., Wilmington, Del. Tool-sharpening device	525,631	Sept. 4	514	128	68	1247
Simmons, William O. (See Simmons, Samuel J., assignor.)						
Simms, Joseph E., Charleston, W. Va. Nut-lock	515,372	Feb. 27	2315	574	66	1332
Simon, Arthur, St. Louis, Mo. Corner-piece for room-moldings	517,307	Mar. 27	2642	620	66	1997
Simon, Edwin S., et al. (See Rosenfeld, Samuel J., assignor.)						
Simon, Harry G., et al. (See Hitt, Adrian, assignor.)						
Simon, Wilhelm, Nuremberg, Germany. Means for pressure-limiting in presses	512,844	Jan. 16	1880	445	66	383
Simonds, Nathan J., Woburn, Mass. Heel-stiffener machine	530,462	Dec. 4	662	{ 164 165 }	69	1337
Simoneau, Louis E., assignor to Automatic Telephone and Electric Company of Canada, Montreal, Canada. Automatic telephone system	520,246	May 22	2399	558	67	1007
Simons, Edwin S., et al. (See Peabody, John S., assignor.)						
Simons, Frederick M., et al. (See Peabody, John S., assignor.)						
Simons, George B. (See Hopkins and Simons.)						
Simons, Heinrich, Aix-la-Chapelle, Germany. Respirator	531,011	Dec. 18	1630	387	69	1542
Simons, John F., et al. (See Peabody, John S., assignor.)						
Simons, Mark. (See Stromberg, Alfred, assignor.) (Reissne.)						
Simonson, James H., et al. (See Van Der Zee, Cornelius, assignor.)						
Simonton, John H. (See Nightingale, William R., assignor.)						
Simpkins, Alvin T., St. Louis, Mo. Baker's oven	527,892	Oct. 23	2018	484	69	417
Simple Account File Company. (See Parrey, John U., assignor.)						
Simpson, Alexander, Scranton, and M. Speicher, Archbald, Pa. Injector	516,231	Mar. 13	817	191	66	1621
Simpson Brick Press Company. (See Simpson, Peter L., assignor.)						
Simpson, Charles H., et al. (See McPhail, Hugh, assignor.)						
Simpson, Edward, et al. (See McPhail, Hugh, assignor.)						
Simpson, Hall, Miller & Co. (See Glahn, George A., assignor.)						
Simpson, Isaiah H., Brunswick, Me. Device for thawing ice from pipes	529,204	Nov. 13	1222	295	69	887
Simpson, James A. (See Wilcox and Simpson.)						
Simpson, James W., New Columbus, Ky. Disk harrow	515,132	Feb. 20	1897	476	66	1241
Simpson, John A., assignor to H. M. and C. H. Sawyer, Cambridge, Mass. Lamp-support for miners' hats	515,133	Feb. 20	1898	477	66	1241
Simpson, Matthew P., and E. P. Williams, McPherson, Kans. Combined corn-planter, seed-drill, and cultivator	529,423	Nov. 20	1621	{ 385 386 387 }	69	982
Simpson, Peter L., Chicago, Ill. Brick-machine	513,444	Jan. 23	2836	{ 696 697 }	66	634
Simpson, Peter L., assignor to Simpson Brick Press Company, Chicago, Ill. Sectional mold for brick-presses	520,455	May 29	2642	638	67	1088
Simpson, Stephen, Mansfield, assignor of one-half to F. E. D. Acland, London, England. Coin-controlled gas or other meter	526,640	Sept. 25	2278	{ 545 546 547 }	68	1609
Sims, Chalmers L., Concord, N. C. Butter box or case	515,258	Feb. 20	2109	523	66	1381
Sims, David P., Lincoln, Neb. Pneumatic tire	515,134	Feb. 20	1899	477	66	1242
Sims, James L., et al. (See Evans, John F., assignor.)						
Simultaneous Chromography Printing Machine and Manufacturing Company. (See Toye, William H. R., assignor.)						
Sinclair, Abraham, New York, N. Y. Hinged sliding door	523,690	July 31	2636	654	68	554
Sinclair, Angus. (See Leeds, Pulaski, assignor.)						
Sinclair, Angus, et al. (See Smith, Calvin A., assignor.)						
Sinclair, David M., Mottville, N. Y. Tie for ends of cane strips for chair-seats	516,711	Mar. 20	1629	388	66	1788
Sinclair, George B., et al. (See Donahoe, Peter B., assignor.)						
Sinclair, John, Great Falls, Mont. Portable stove	523,920	July 31	3045	760	68	629
Sinclair, John M., Brooklyn, N. Y. Grate-bar	514,136	Feb. 6	248	60	66	901
Sinding-Larsen, Alf, Christiania, Norway. Apparatus for electrolytical decomposition	525,555	Sept. 4	3399	96	68	1225
Singer, Charles, Wichita, Kans. Chair-bottom	522,089	June 26	2377	572	67	1682
Singer, Edgar A., Jr. (See Brightly, Fuller, and Singer.)						
Singer, Joseph, and J. C. Wood, Los Angeles, Cal. Wave-motor	524,490	Aug. 14	904	223	68	844
Singer Manufacturing Company. (See Diehl, Philip, assignor.)						
Singer Manufacturing Company. (See Foster, Charles H., assignor.)						
Singer Manufacturing Company. (See Schoen, Paul, assignor.)						
Singer Manufacturing Company of New Jersey. (See Allen, Edward B., assignor.)						
Singer Manufacturing Company of New Jersey. (See Douglas, John, assignor.)						
Singer, Nimick & Company. (See Foster, Alexander W., assignor.)						
Singleton, William H., Washington, D. C. Bale-tie	530,607	Dec. 11	951	234	69	1405
Sinks, David, assignor of one-half to C. Burghardt, Belleville, Ill. Sash-balance	519,895	May 15	1681	410	67	880

Alphabetical list of patentees—Continued.

Name, residence, and invention.	No.	Date	Monthly volume.		Official Gazette.	
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Sinning, Charles, assignor to Sinning Lasting Machine Company, St. Louis, Mo. Clutch...	518,865	Apr. 24	2462	610	67	493
Sinning, Charles, St. Louis, Mo., assignor to Sinning Lasting Machine Company, East St. Louis, Ill. Lasting-machine.....	518,932	Apr. 24	2583	639 640 641 642 643	67	517
Sinning Lasting Machine Company. (See Sinning, Charles, assignor.)						
Sinsz, Philip, Baltimore, Md. Glazier's diamond.....	520,247	May 22	2301	558	67	1007
Sintz, Clark, Grand Rapids, Mich. Propeller-wheel.....	512,627	Jan. 9	1481	357 358	66	291
Sioux City Brick and Tile Company. (See Green, Thomas, assignor.)						
Sipe, James P., <i>et al.</i> (See Schon, Hubert, assignor.)						
Sippy, Alvin H., St. Louis, Mo. Device for stringing fish.....	529,758	Nov. 27	2195	523	69	1094
Sir Joseph Whitworth & Company. (See Canet, Jean B. G. A., assignor.)						
Sir Joseph Whitworth & Company. (See Gledhill, Manassah, assignor.)						
Sir W. G. Armstrong, Mitchell & Company. (See Noble and Brankston, assignors.)						
Sir W. G. Armstrong, Mitchell & Company. (See Noble and Lloyd, assignors.)						
Sisk, Robert J., New London, Conn. Composition for sizing walls.....	530,557	Dec. 11	869	.....	69	1390
Sisson, Frank W., <i>et al.</i> (See Chace, James S., assignor.)	528,493	Oct. 30	3081	747 748	69	626
Sittig, Lena, Brooklyn, N. Y. Skirt-protecting garment.....	520,225	May 22	2263	551	67	1060
Sivertson, Lucas, Fort Abercrombie, N. D. Rotary engine.....	523,493	Oct. 30	3081	748	69	626
Six, William M., Westfield, Ind. Train time-indicator.....	530,360	Dec. 4	506	125 126	69	1307
Sjöstrand, Erik S., and C. J. Andersson, Steninge, Sweden. Circular-saw mill.....	523,241	July 17	1848	465 466 467	68	378
Sjöström, David. (See Andersson, Hilda K., assignor.)						
Skalla, Paul. (See Coker, James W., assignor.)						
Skatulla, Cölestin, Brooklyn, N. Y., assignor to Monoline Composing Company, Washington, D. C. Space-bar for line-composing machines.....	513,958	Jan. 30	3692	908	66	832
Skatulla, Cölestin, Brooklyn, N. Y., assignor of one-half to Monoline Composing Company, Washington, D. C. Machine for producing cast type-bars.....	529,205	Nov. 13	1223	295	69	887
Skeyen, Jacob B., Hillsborough, N. D. Cooking utensil.....	524,616	Aug. 14	1119	275	68	884
Skidmore, Frederick R., Milwaukee, Wis. Mouthpiece for wind-instruments.....	528,993	Nov. 13	863	204	69	824
Skiffington, William P., New York, N. Y., assignor of three-fourths to A. G. Paul, Boston, Mass. Heating system.....	526,754	Oct. 2	139	33, 34	69	28
Skiffington, William P., New York, N. Y., assignor of three-fourths to A. G. Paul, Boston, Mass. Method of heating.....	527,029	Oct. 2	586	142	69	111
Skilling, John, Fall River, Mass. Button.....	528,397	Oct. 30	2915	705	69	595
Skinner, Daniel M., Centre Sandwich, N. H. Cash and parcel carrier.....	518,201	Apr. 10	1323	330	67	239
Skinner, George J. B., St. Louis, Mo. Dust and shavings collector.....	515,259	Feb. 20	2109	523	66	1261
Skinner, Joseph W., La Crosse, Wis. Composition of matter for plating metallic surfaces with silver.....	511,810	Jan. 2	97	.....	66	22
Skinner, Joseph W., La Crosse, Wis. Shoe-shaper.....	513,393	Dec. 25	2324	554	69	1685
Skipper, James M., assignor of one-half to J. W. Holden, Granbury, Tex. Ice-cream freezer.....	517,492	Apr. 3	131	28, 29	67	27
Slack, William J., La Grange, Ind. Gate.....	519,778	May 15	1491	361	67	844
Skoda, Emil v., Pilsen, Austria-Hungary. Ordnance-sight.....	514,969	Feb. 20	1643	411 412	66	1196
Skoda, Emil von, Pilsen, Austria-Hungary. Illuminated gun-sight.....	529,424	Nov. 20	1627	387	69	982
Skoglund, Jean V. (See Ponten and Skoglund.)						
Skoglund, Jean V., Brooklyn, assignor to Martin Kalbfleisch's Sons Company, New York, N. Y. Aluminous cake and making same.....	526,205	Sept. 18	1541	.....	68	1456
Slada, Charles J. (See Mann, Charles A., assignor.)						
Slade, Samuel L., <i>et al.</i> (See Nall, Frederick W., assignor.)						
Slangerup, August F., New Orleans, La. Electric alarm for cane-feeders.....	511,866	Jan. 2	195	48	66	41
Slater, James T., and M. T. Barrett, Barrett's Mills, Ohio. Automatic lubricator.....	512,402	Jan. 9	1118	270	66	223
Slater, Jesse F., Charlton, assignor of one-half to J. Morgan, Springfield, Mass. Secret compartment for cabinets, &c.....	513,061	Jan. 16	2233	537	66	449
Slater, John, Hutchins, Pa. Electric alarm-lock.....	525,291	Aug. 28	2278	555	68	1123
Slaton, William D., Henrietta, Tex. File or bill book.....	522,860	July 10	1169	292	65	237
Slattery, John, Philadelphia, assignor of one-half to J. K. Griffith, Latrobe, Pa. Wheel-mold.....	516,359	Mar. 13	1028	244	66	1661
Slaughter, William T., Greenville, S. C. Blackboard.....	524,617	Aug. 14	1120	276	68	395
Slawson, Charles H., <i>et al.</i> (See Casswell, Richard H., assignor.)						
Slawson, Daniel K., Manitow, Canada. Car-coupling.....	515,305	Feb. 20	2194	544	66	1298
Slaymaker, Barry & Co. (See Troast and Slaymaker, assignors.)						
Slaymaker, Samuel R. (See Troast and Slaymaker.)						
Slayton, Cortes J., <i>et al.</i> (See Boomhower, Eli E., assignor.)						
Slayton, George J., <i>et al.</i> (See Boomhower, Eli E., assignor.)						
Slayton, William H., <i>et al.</i> (See Boomhower, Eli E., assignor.)						
Slee, Richard, Brooklyn, N. Y. Microtome.....	515,174	Feb. 20	1966	490	66	1254
Slentz, Edmund P., Mansfield Valley, Pa. Rope or wire holder.....	523,292	July 17	1936	486	68	884
Slicer, Charles H., Baltimore, Md. Producing asphaltic composition powder for roadways.....	514,045	Feb. 6	110	.....	66	874
Slicer, Charles H., Baltimore, Md. Filling for joints, fractures, &c., of stone structures.....	525,292	Aug. 28	2279	.....	68	1123
Sliker, Charles, Canton, Ohio. Fence-post.....	516,232	Mar. 13	818	191	66	1621
Sloan, Bert F., <i>et al.</i> (See Hutchinson, Calvin A., assignor.)						
Sloan, Maurice M., Philadelphia, Pa. Paper-pulp strainer.....	514,736	Feb. 13	1276	318	66	1111
Sloan, Moses B. (See MacKenzie, Sloan, and Sloane.)						
Sloan, Moses B. (See MacKenzie, Sloane, and Sloan.)						
Sloan, Moses B., <i>et al.</i> (See MacKenzie, George W., assignor.)						
Sloan, William E., assignor of one-half to C. A. Knight, Chicago, Ill. Telegraph-repeater.....	515,845	Mar. 6	185	44	66	1487
Sloane, Gertrude D. (See Sloan, John D., assignor.)						
Sloane, John D., assignor to G. D. Sloane, St. Paul, Minn. Micrometer-calipers.....	517,073	Mar. 27	2253	533	66	1921
Sloane, Thomas C. (See MacKenzie, Sloane, and Sloan.)						
Sloane, Thomas C., <i>et al.</i> (See MacKenzie, George W., assignor.)						
Slocum, Frank L., assignor of one-half to C. Y. Wheeler, Pittsburg, Pa. Making green oxid of chromium.....	524,470	Aug. 14	874	.....	68	839
Slocum, Harry F., New York, N. Y. Automatic bank or money-changer.....	520,013	May 15	1870	457	67	914
Slocum, Harry F., New York, N. Y., assignor to New York Electrical and Development Company, of New Jersey. Telephone.....	520,086	May 22	2007	490	67	955
Sloss, Louis, Jr. (See Tardif and Wethered, assignors.)						
Slusser, Murray C. and W. J., Slusser, Va. Nut-lock.....	513,540	Jan. 30	3029	746	66	706
Slusser, William J. (See Slusser, Murray C. and W. J.)						
Sly, Charles N., assignor of one-half to G. E. Wadleigh, Medina, N. Y. Machine for sharpening shears.....	523,908	July 31	3022	751	68	625

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Sly, William W., Cleveland, Ohio. Crusher	514,097	Feb. 6	192	44	66	890
Slyder, William J., assignor of one-half to C. Kessler, Troy, Ohio. Safety-gate for elevators	519,139	May 1	351	83, 84	67	605
Smale, John M., Leavenworth, near King's Langley, England. Filtering machinery	512,231	Jan. 2	828	201	66	157
Small, Charles G., Easthampton, Mass. Drill-chuck	516,775	Mar. 20	1732	408	66	1805
Small, Frederick E., Boston, Mass. Lubricator	531,225	Dec. 18	2024	482	69	1613
Small, Henderson T., Chanute, Kans. Shoe-string holder	527,733	Oct. 16	1736	419	69	350
Small, J. Hamilton, <i>et al.</i> (See McNulty, John A., assignor.)						
Small, Robert H., assignor of one-half to M. E. Hayes, New London, Conn. Tailpiece for banjos or violins	517,493	Apr. 3	133	29	67	27
Small, William, Jr. (See Pettegrew, Swithen C., assignor.)						
Small, William, Jr. (See Voegtli, Theodore, assignor.)						
Smalley, Joseph. (See Tweedale and Smalley.)						
Smalley, Josiah C. (See Gates, Charles M., assignor.)						
Smalley, Martin D., Plymouth, Ind. Friction-clutch	515,450	Feb. 27	2441	605	66	1355
Smallman, James W., London, England. Pneumatic tire and rim for wheels	521,482	June 19	1316	306	67	1468
Smallwood, John W., Cincinnati, Ohio. Coin or check controlled delivery apparatus	512,758	Jan. 16	1736	412	66	355
Smallwood, Samuel B., Long Island City, N. Y. Bottle-filling machine	523,013	July 17	1441	360	68	303
Smallwood, Samuel B., Long Island City, N. Y. Bottle-filling apparatus	523,014	July 17	1445	361	68	304
Smallwood, Samuel B., Long Island City, N. Y. Bottle-corking machine	523,015	July 17	1448	361	68	305
Smallwood, Samuel B., Long Island City, N. Y. Bottle-filling machine	523,016	July 17	1455	362	68	306
Smallwood, Winston T., New Albany, Miss. Churn	520,087	May 22	2008	491	67	955
Smart, Charles W., Carbondale, Ill. Vehicle	512,759	Jan. 16	1738	412	66	356
Smart, Elsworth, Brockville, Canada. Cow-milking machine	527,893	Oct. 23	2019	485	69	418
Smart, John W., Burnet, Tex. Car-coupling	513,657	Jan. 30	3231	793	66	741
Smart, Terrence P., Philadelphia, Pa. Excavator	526,641	Sept. 25	2284	548	68	1610
Smead, Isaac D., Toledo, Ohio. Furnace	520,124	May 22	2067	502	67	965
Smeallie, William J., Amsterdam, N. Y. Bottle-washer	515,556	Feb. 27	2610	647	66	1388
Smeltzer, Daniel. (See Eyer and Smeltzer.)						
Smelzer, Baxter T. (See Quigley, Charles C., assignor.)						
Smethurst, Aaron, assignor of one-half to C. H. Roberts, Bountiful, Utah Ter. Potato-digger	520,902	June 5	270	65	67	1246
Smiley, Frank M., Goshen, Ind. Beam-scale	525,517	Sept. 4	328	81, 82	68	1212
Smiley, George W., and F. W. Dunlap, London, England; said Dunlap assignor to said Smiley. Wheel for bicycles	522,090	June 26	2378	572	67	1682
Smiley, Herbert R., Chicago, Ill. Window-shade fixture	519,437	May 8	904	217	67	725
Smiley, Josiah E., Smiley, Ohio. Stovepipe-joint	528,816	Nov. 6	524	127	69	741
Smith, Aaron W., Worcester, Mass. Horseshoe	517,176	Mar. 27	2426	571	66	1956
Smith, Abram H., deceased, Memphis, Mo.; S. E. B. Smith, administratrix. Heating and ventilating dwelling-houses	514,970	Feb. 20	1646	412	66	1196
Smith, Adam D. (See Leonard, George B., assignor.)						
Smith, Ai. (See Oddy, Crossley, and Smith.)						
Smith, Albert, Grand Rapids, Mich. Flower-box	530,132	Dec. 4	96	25	69	1233
Smith, Albert W., San Francisco, Cal. Electric-arc lamp	522,276	July 3	183	50	68	38
Smith, Alfred B., assignor of one-half to G. A. Dunlap, Chicago, Ill. Newspaper-holder	525,268	Sept. 11	975	218	68	1340
Smith, Allan A., Grand Island, Nebr. Lifting-jack	523,871	July 31	2962	738	68	614
Smith, Alle J., Big Rapids, Mich. Stump-extractor	524,914	Aug. 21	1609	394	68	984
Smith, Allen Y., Eddy, N. Mex. Ter. Insect-trap	514,388	Feb. 6	691	174	66	983
Smith, Alonzo D. (See Smith, William, assignor.)						
Smith, Alonzo D., Newark, N. J. Car-fender	531,395	Dec. 25	2326	555	69	1686
Smith, Alonzo H. (See Hodges, Addison S., assignor.)						
Smith, Alvia B., Middlebury, Vt. Horseshoe-calk sharpener	521,513	June 19	1371	319	67	1478
Smith, Amos B., <i>et al.</i> (See Reynolds, Hamline W., assignor.)						
Smith, Andrew J., Denver, Colo., assignor of three-fourths to V. P. Mooney, A. Palmer, and A. Swiggett, El Dorado, Kans. Combined tack-driver and carpet-stretcher	516,455	Mar. 13	1188	285	66	1690
Smith, Arthur J., assignor of one-half to H. J. Wright, London, England. Electric accumulator or secondary battery	519,482	May 8	981	237	67	737
Smith, Arthur W., assignor of one-half to A. T. Bond, Sioux City, Iowa. Plastering compound	528,995	Nov. 13	866	.....	69	824
Smith, Augustus F., Rock Falls, Ill. Mitten	524,001	Aug. 7	59	13	68	672
Smith, Austin, and E. H. Lloyd, Burchard, Nebr. Hay-harvesting implement	517,399	Mar. 27	2827	661	66	2034
Smith, Benjamin, and J. M. Howson, Halifax, England. Spindle for spinning machinery	517,772	Apr. 3	601	148	67	116
Smith, Benjamin F., Springfield, Ohio. Hay-rake	526,586	Sept. 25	2193	524	68	1592
Smith, Benjamin F., assignor of one-half to H. Bleakley, Valparaiso, Nebr. Corn-planter	517,245	Mar. 27	2532	595	66	1976
Smith, Benjamin F., assignor of two-thirds to T. C. and E. H. Ackerson, Springfield, Ohio. Hay-rake	517,246	Mar. 27	2534	595	66	1977
Smith, Benjamin J., Pottsville, Pa. Automatic display device	519,483	May 8	983	237	67	738
Smith, Benjamin J., Pottsville, Pa. Automatic exhibiting device	519,484	May 8	986	239	67	738
Smith, Benjamin O., Kansas City, Mo. Hame-fastener	527,131	Oct. 9	746	183	69	153
Smith, Benjamin W., Rockport, Ind. Railway-car brake	512,760	Jan. 16	1744	413	66	357
Smith, Brainard F., Represa, Cal. Pen-fender	520,663	May 29	2982	721	67	1150
Smith, Byron A., Erie, Pa. Bicycle attachment	515,800	Mar. 6	116	28	66	1475
Smith, Calvin A., assignor of two-thirds to J. A. Hill, A. Sinclair, F. W. Coolbaugh, and L. R. Pomeroy, East Orange, N. J. Railway-car	524,355	Aug. 14	683	166	68	802
Smith, Charles A. (See Mayhew, George S., assignor.)						
Smith, Charles A., South Chicago, Ill. Railway-car construction	530,969	Dec. 18	1556	368	69	1528
Smith, Charles B. (See Given and Smith.)						
Smith, Charles B. Warren, Pa. Self-feeding inkstand	512,336	Jan. 9	1001	245	66	201
Smith, Charles B. Warren, Pa. Inkstand	526,059	Sept. 18	1279	296	68	1409
Smith, Charles E., North Harvey, Ill. Miter-cutter	525,725	Sept. 11	702	163	68	1292
Smith, Charles F., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Machine for making predetermined lengths of chain	524,794	Aug. 21	1412	345	68	950
Smith, Charles G. (See Jägel, Smith, and Pruden.)						
Smith, Charles G., Detroit, Mich. Excelsior-cutting machine	530,732	Dec. 11	1165	283	69	1441
Smith, Charles G., Detroit, Mich. Excelsior-cutting machine	531,342	Dec. 25	2234	534	69	1667

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Smith, Charles H., Birmingham, Ala. Car-coupling	519,205	May 1	476	116	67	629
Smith, Charles L., Philadelphia, Pa. Perforating attachment for printing-presses	516,317	Mar. 13	945	222	66	1646
Smith, Charles L., assignor to T. W. and C. B. Sheridan, New York, N. Y. Self-clamping paper-cutter	521,738	June 19	1747	415	67	1548
Smith, Charles S. (See Stewart, William H., assignor.)						
Smith, Charles W., Kansas City, Mo. Thill coupling	514,510	Feb. 13	596	228	66	1040
Smith, Charles W., Pelzer, S. C. Price-scale	529,206	Nov. 13	1926	295	69	888
Smith, Clarence C., and T. B. Stone, Camptown, Pa. Toy pistol	523,870	July 31	2960	737	68	614
Smith, Curtis A. (See Jackman and Smith.)						
Smith, Daniel A., Jr., Washington, D. C. Folding umbrella	528,212	Oct. 30	2600	627	69	533
Smith, Daniel H., Holyoke, Mass. Pneumatic tire	512,491	Jan. 9	1286	369	66	255
Smith, Daniel W., assignor of two-thirds to A. Bevis and C. H. Longstreth, St. Louis, Mo. Electric signal for railway-crossings	529,759	Nov. 27	2196	523	69	1094
Smith, David, and H. P. Goldrick, Natick, Mass. Boiler	522,805	July 10	1095	270	68	222
Smith, David, Wellesley, and H. P. Goldrick, Natick, Mass. Water-tube boiler	536,664	Dec. 11	1055	257	69	1422
Smith, De Wane B., Deerfield, N. Y. Knife or cutter for mowers, &c.	513,834	Jan. 30	3594	862	66	794
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Buckle	518,125	Apr. 10	1180	296	67	231
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Supporter	521,249	June 12	882	209	67	1370
Smith, Dwight L., assignor of one-half to E. A. Smith, Waterbury, Conn. Buckle	523,550	July 24	2386	509	68	492
Smith, Earl A. (See Smith, Dwight L., assignor.)						
Smith, Earl W., and E. H. Miller, Denver, Colo. Window-shade adjuster	524,985	Aug. 21	1741	425	68	1009
Smith, Eber. (See Hill and Smith.)						
Smith, Edward A. (See Wigge, Henry, assignor.)						
Smith, Edward F., Rochester, N. Y. Sash-balance	522,624	July 10	776	196	68	166
Smith, Edward F., Erie, Pa. Rotary pump	527,082	Oct. 9	662	162	69	139
Smith, Edward G. (See Ahlstrom, Oscar G., assignor.)						
Smith, Edward J., Beaver Falls, Pa. Nail-machine feeder	523,603	July 24	2468	599	68	507
Smith, Edward S., Waterbury, Conn. Garment-fastener	520,545	May 29	2795	675	67	1115
Smith, Edward S., Waterbury, Conn. Clasp	522,722	July 10	935	233	68	195
Smith & Egge Manufacturing Company. (See Norwell, John J., assignor.)						
Smith & Egge Manufacturing Company. (See Smith, Charles F., assignor.)						
Smith & Egge Manufacturing Company. (See Trull, William E., assignor.)						
Smith, Elridge J., Washington, D. C. Fender for street-railway cars	517,894	Apr. 10	779	195	67	164
Smith, Eldridge J., assignor to Automatic Car Fender Company, Washington, D. C. Car-fender	523,551	July 24	2387	620	68	492
Smith, Eleanor M., Baltimore, Md., assignor to McLoughlin Brothers, New York, N. Y. Toy or doll house	513,688	Jan. 30	3275	806	66	750
Smith, Enos. (See Oddy, Crossley, and Smith.)						
Smith, Ephraim, Boston, Mass. Casting crucible steel ingots	517,197	Mar. 27	2462	.....	66	1963
Smith, Ernst G., Columbia, Pa. Collar or cuff shaping machine	529,143	Nov. 13	1113	269	69	869
Smith, Eugene, Chicago, Ill. Building-block	518,630	Apr. 24	2062	513	67	422
Smith, Eugene C. (See Smith, John J. C. and E. C.)						
Smith, Eugene C., Providence, R. I. Mold for casting metals	512,845	Jan. 16	1880	.....	66	393
Smith, Eugene C., New York, N. Y. Saw	526,642	Sept. 25	2226	548	68	1610
Smith, Eugene C., New York, N. Y. Machine for manufacturing plaster-boards	529,535	Nov. 20	1838	438	69	1020
Smith, Ferdinand, Hartford, Conn. Staff-bell	513,152	Jan. 23	2374	573	66	546
Smith, Fernando B., Canton, Ohio. Oil-can	530,207	Dec. 4	238	56	69	1257
Smith, Floyd T., New York, N. Y. Bottle-stopper	512,126	Jan. 2	660	158	66	127
Smith, Frank G. (See Roake and Smith.)						
Smith, Frank G., New York, N. Y. Railway-signal	525,367	Sept. 4	80	21, 22	68	1165
Smith, Frank J., Marcellus, Mich. Door-securer	521,670	June 26	1974	477	67	1607
Smith, Frank J., assignor of one-half to C. C. Long, Marcellus, Mich. Locomotive attachment	521,186	June 12	770	180	67	1349
Smith, Frank S., Pittsburg, Pa. Incandescent electric lamp	519,699	May 1	273	65	67	588
Smith, Frank S., Pittsburg, Pa. Incandescent lamp	520,088	May 22	2010	491	67	955
Smith, Frank W., Portland, Me. Corn-cooking machine	512,232	Jan. 2	630	201	66	157
Smith-Fraser, Olive L., Minneapolis, Minn. Invalid chair	521,463	June 19	1281	298	67	1461
Smith, Fred P., Worcester, assignor to Smith Heating and Ventilating Company, Boston, Mass. Ventilated urinal	519,355	May 8	772	189	67	700
Smith, Frederick D., San Francisco, Cal. Method of and apparatus for preserving condensed milk	520,014	May 15	1872	458	67	914
Smith, G. H., et al. (See Edwards, Hubert F., assignor.)						
Smith, George H., Webster, W. Va. Working body churn	512,628	Jan. 9	1483	358	66	291
Smith, George H., assignor of one-half to E. A. Beaman, Providence, R. I. Adjustable friction-clutch	521,677	June 19	1647	385 } 356 }	67	1522
Smith, George P., et al. (See Frost, Walter E., assignor.)						
Smith, George P., and J. B. Bruner, Springfield, Ohio. Post-hole auger	517,892	Apr. 10	775	194	67	164
Smith, Gilman W. (See Bates and Smith.)						
Smith, Hamilton E., New York, N. Y. Ironing-machine	514,137	Feb. 6	249	60	66	901
Smith, Hamilton E., New York, N. Y. Ironing-machine	519,974	May 15	1810	444	67	903
Smith, Hamilton E., New York, N. Y. Centrifugal machine	519,975	May 15	1811	444	67	903
Smith, Hamilton E., Philadelphia, Pa., assignor to Bessonette Cotton Compress Manufacturing Company, Waco, Tex. Baling press	529,969	Nov. 27	2561	617	69	1162
Smith, Hamilton E., New York, N. Y., and B. A. Dare, Jersey City, N. J., assignors to Bessonette Cotton Compress Manufacturing Company, Waco, Tex. Core-holding mechanism for cotton-baling machines	529,967	Nov. 27	2553	615	69	1160
Smith, Hamilton E., New York, N. Y., and B. A. Dare, Jersey City, N. J., assignors to Bessonette Cotton Compress Manufacturing Company, Waco, Tex. Cotton-baling machine	529,968	Nov. 27	2557	616 } 617 }	69	1161
Smith, Harper F., assignor of five-eighths to W. F. McCully and G. McGowan, Philadelphia, Pa. Gas-generator	517,398	Mar. 27	2825	661	66	2034
Smith, Harry C., Watertown, N. Y. Drawer extension	524,225	Aug. 7	437	103	68	741
Smith Heating and Ventilating Company. (See Smith, Fred P., assignor.)						
Smith, Henry. (See Denson, Joseph, assignor.)						
Smith, Henry, et al. (See Shelley, Rose M., assignor.)						
Smith, Henry, Buffalo, N. Y. Electrical testing-switch	524,844	Aug. 21	1506	368	68	966
Smith, Henry, Cincinnati, Ohio. Curling-iron	525,164	Aug. 28	2083	508	68	1085
Smith, Henry A., Los Angeles, Cal. Fruit-car	513,208	Jan. 23	2455	593	66	561
Smith, Henry A., Omaha, Neb. Whip-socket	513,736	Jan. 30	3359	828	66	765
Smith, Henry A. W., Minneola, Va. Plow	525,867	Sept. 11	974	218	68	1340
Smith, Henry D., Chicago, Ill. Furnace	531,394	Dec. 25	2324	554	69	1685
Smith, Henry T., Pawtucket, R. I., assignor to Standard Seamless Wire Company, Pawtucket, R. I., and Portland, Me. Fountain-pen	522,804	July 10	1094	270	68	222
Smith, Henry W., assignor of one-half to F. J. Ruth, Alliance, Ohio. Combination-tool	515,799	Mar. 6	115	27	66	1475
Smith, Henry W. C., Bristol, England. Game board or apparatus	521,737	June 19	1745	414	67	1542

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Smith, Herbert M. (See Chrisler and Smith.)						
Smith, Herbert S. (See Knight and Smith.)						
Smith, Herbert S., Brooklyn, assignor to himself, and F. E. Knight, New York, N. Y. Switch-point for street-railways	523,154	July 17	1695	424	68	351
Smith, Hiram W. (See Brown and Smith.)						
Smith, Horatio G., Fitchburg, Mass. Steam-engine governor	530,970	Dec. 18	1558	369	69	1528
Smith, Humphrey R., Chicago, Ill. Automatic stop device for hydraulic elevators	523,342	July 17	1857	467	68	379
Smith, Humphrey R., Chicago, Ill. Safety grip device for elevators	530,971	Dec. 18	1559	369 370	69	1528
Smith, Ira T., Mount Carmel, Conn. Machine for grooving and punching needle-blanks	512,912	Jan. 16	2004	475 476	66	406
Smith, Isaac, Lexington, Ky. Combined harrow and scraper	521,826	June 26	1908	458	67	1594
Smith, Isaiah, Columbus, Ohio. Fireproof shutter	522,861	July 10	1171	292	68	237
Smith, J. N., et al. (See Lombard, Levi W., assignor.)						
Smith, Jacob G. (See Barnes and Smith.)						
Smith, Jacob W., Chambersburg, Ohio. Gate	531,344	Dec. 25	2237	531	69	1668
Smith, James F., Philadelphia, Pa. Opener and handle for shoe-polish or other boxes	514,285	Feb. 6	534	131	66	953
Smith, James H. (See Mann, Smith, and Read.)						
Smith, James H., Belleville, Ill. Copying-press	512,668	Jan. 9	1555	373	66	306
Smith, James P., assignor of one-third to A. D. Joslin, Chicago, Ill. Ice-elevator plane	523,714	July 31	2687	666	68	562
Smith, James R. (See Smith, John H., J. R., and W. E.)						
Smith, James W., Rome, Ga. Cotton-seed cleaner and separator	518,124	Apr. 10	1178	295	67	231
Smith, James W., Moscow, Ky. Grate	518,470	Apr. 17	1802	446	67	362
Smith, Jay H., Rochester, N. Y. Automatic alarm-box	515,260	Feb. 20	2111	524	66	1281
Smith, Job, assignor of one-half to W. J. Werntz, Annapolis, Md. Clock	517,594	Apr. 3	290	67	67	57
Smith, John, Pierce City, Mo. Car-brake	514,286	Feb. 6	535	131	66	954
Smith, John A. (See Bradford and Smith.)						
Smith, John A., assignor of two-thirds to J. Hart and A. Wilkinson, Johnstown, Pa. Balanced piston-valve	530,559	Dec. 11	871	215	69	1390
Smith, John C. (See Coles, Smith, Jamieson, and Jacobs.)						
Smith, John C., Sugartree, Mo. Stump-extractor	528,994	Nov. 13	864	205	69	824
Smith, John D. (See Burkhardt, Waterman, and Smith.)						
Smith, John E., Buffalo, N. Y. Tool-holder	521,965	June 26	2168	520	67	1643
Smith, John F. A., and J. M. Bryant, Benwood, W. Va. Crane for manipulating tongs	513,658	Jan. 30	3232	794	66	742
Smith, John H., J. R., and W. E., Snohomish, Wash. Horseshoe	522,126	June 26	2437	566	67	1692
Smith, John J. C., Passaic, N. J. Bicycle-tire	519,438	May 8	905	218	67	726
Smith, John J. C., Passaic, N. J., and E. C. Smith, Providence, R. I. Apparatus for casting metals under pneumatic pressure	526,874	Oct. 2	341	85	69	64
Smith, John L., West Hartlepool, England. Construction of puddling or other furnaces	519,620	May 8	1239	267	67	784
Smith, John O., Nashville, Tenn. Feed-mill	518,123	Apr. 10	1177	295	67	231
Smith, John P., Cleveland, Ohio. Type-writing machine	527,083	Oct. 9	664	162	69	139
Smith, John R. H. (See Shoemaker, Simon, assignor.)						
Smith, John T., Rockfall, Conn. Revolver	530,730	Dec. 11	1161	281	69	1440
Smith, John W. (See Coax, Earnest R., assignor.)						
Smith, John W. (See Ring, Smith, and Anness.)						
Smith, John W., Galesburg, Ill. Lightning-rod and coupling	518,793	Apr. 24	2352	583	67	474
Smith, John W., and F. J. Perkins, Woburn, Mass. Flooring-clamp	525,518	Sept. 4	330	82	68	1212
Smith, Joseph B. (See Clough, Albert L., assignor.)						
Smith, Joseph B., Manchester, N. H. Electric switch	518,471	Apr. 17	1803	446	67	362
Smith, Joseph B., Manchester, N. H. Telephone-switch	521,274	June 12	922	218	67	1377
Smith, Joseph B., Manchester, N. H. Telephone-transmitter	521,325	June 12	1016	239	67	1395
Smith, Joseph B., Manchester, N. H. Magnet call-bell	526,982	Oct. 2	510	125	69	96
Smith, Joseph H., Plymouth, Ohio. Rock-drill	520,619	May 29	2912	704	67	1138
Smith, Joseph N., et al. (See Lombard, Levi W., assignor.)						
Smith, Joshua G., St. Paul, Minn. Elevator-table	526,505	Sept. 25	2073	494	68	1570
Smith, Leonard O., Philadelphia, Pa. Holding device for embroidery-silks, &c	530,628	Dec. 11	987	242	69	1411
Smith, Leonard O., Philadelphia, Pa. Device for holding silks or threads	531,475	Dec. 25	2476	589 590	69	1714
Smith, Lucius A., Topeka, Kans. Truss	531,343	Dec. 25	2236	534	69	1667
Smith, Matthias. (See Crandall and Smith.)						
Smith, Michael, Passaic, N. J. Rubber mold or pattern and manufacturing same	516,028	Mar. 6	479	111	66	1541
Smith, Michael, Passaic, N. J. Apparatus for the manufacture of rubber molds and patterns	516,029	Mar. 6	482	111 112	66	1541
Smith, Millard F., assignor to himself and C. P. Adams, Brooklyn, N. Y. Tool for drilling and tapping pipes	515,976	Mar. 6	391	91	66	1525
Smith, Miller A., Brooklyn, and W. Clabaugh, assignors to New York Electrical Works, New York, N. Y. Electric-railway overhead switch	520,971	June 5	393	95	67	1969
Smith, Milton. (See Eddy, John S., assignor.)						
Smith, Milton E., and M. F. Geer, assignors of one-third to P. C. Brewer, Rochester, N. Y. Electric battery	527,298	Oct. 9	1020	248	69	204
Smith, Milton S., Rolling Prairie, Ind. Rail fence	513,344	Jan. 23	2676	649	66	605
Smith, Milton W., Long Island City, N. Y. Foot-rest for bicycles	516,902	Mar. 20	1936	457	66	1846
Smith, Morris F., Philadelphia, Pa. Observation-tower	525,031	Aug. 23	1836	448	68	1043
Smith, Nathaniel E., assignor of one-half to W. T. Bothwell, Jersey City, N. J. Combined pipe wrench and cutter	514,166	Feb. 6	312	74	66	912
Smith, Norton, assignor of three-eighths to J. F. Ruckel and R. M. Lewis, Saginaw, Mich. Combined flag-holder and cane	523,293	July 17	1937	457	68	395
Smith, Oberlin, Bridgeton, N. J., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Warp stop-motion for looms	515,536	Feb. 27	2577	638	66	1381
Smith, Oberlin, Bridgeton, N. J., assignor of one-half to G. Draper & Sons, Hopedale, Mass. Warp stop-motion for looms	521,298	June 12	967	229 230	67	1385
Smith, Oliver E., assignor to J. P. Woodworth, Chicopee, Mass. Revolver	528,263	Oct. 30	2685	647	69	555
Smith, Orin, Crooked Tree, Ohio. Wheel-wrench	524,770	Aug. 21	1377	335	68	943
Smith, Orison M., assignor of two-thirds to M. J. Davis, E. J. McLaughlin, H. Bridgeman, and N. F. Russell, Duluth, Minn. Automatic safety-grip for inclined railways	527,894	Oct. 23	2021	486	69	418
Smith, Orson W., assignor of one-half to A. G. Chaloupka, Charlevoix, Mich. Grave-stone or monument	518,552	Apr. 17	1929	477	67	384
Smith, Orson W., assignor, by mesne assignments, of one-half to G. W. Beaman, Charlevoix, Mich. Stationary cuspidor	524,913	Aug. 21	1608	394	68	984
Smith, Peter P., et al. (See Nesbit, Joseph B., assignor.)						
Smith, R. Tyne. (See Monroe, David M., assignor.)						
Smith, Richard H. (See Morris and Smith.)						
Smith, Richard H. (See Wilson, Walter H., assignor.)						
Smith, Richard H., and W. F. Tripp, Springfield, Mass. Hand printing device	518,515	Apr. 17	1872	464	67	374

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Smith, Robert. (See Jackson, Smith, and Bennett.)						
Smith, Robert K., and J. R. Pile, Owensborough, Ky. Window-operator	515,061	Feb. 20	1784	450	66	1220
Smith, Samuel. (See Mershon, William R., assignor.)						
Smith, Samuel C. (See White, Albert, assignor.)						
Smith, Samuel K., New Brighton, Pa. Kiln for burning brick, pottery, &c.	517,893	Apr. 10	777	194	67	164
Smith, Samuel N., assignor to Minnesota Smokeless Furnace Company, Minneapolis, Minn. Smoke-preventing furnace	527,895	Oct. 23	2023	486 487	69	419
Smith, Sarah E. B., administratrix. (See Smith, Abram H.)						
Smith, Sidney S., Boston, Mass. Wave-power propeller for boats	529,882	Nov. 27	2404	575 576	69	1134
Smith, Solomon, and M. B. Mishler, Ravenna, Ohio. Tool for linemen's use	530,361	Dec. 4	507	125	69	1307
Smith, Stansbury J., Paris, Tex. Gate	517,366	Mar. 27	2738	644	66	2017
Smith, Stansbury J., Paris, Tex. Gate	529,086	Nov. 13	1021	246	69	851
Smith, Stephen G. (See Moore, Thomas C., assignor.)						
Smith, Stephen R., assignor of one-half to G. W. Detharding, Belleville, Ill. Adjustable hanger for curtain or shade rollers	514,046	Feb. 6	113	26	66	875
Smith, Stephen T., Noroton, Conn. Car-coupling	530,558	Dec. 11	870	214 215	69	1390
Smith, Stephen T., Darien, Conn., assignor of one-half to C. F. Lantry, New York, N. Y. Car-coupling	518,631	Apr. 24	2063	513	67	422
Smith, Thomas B., Philadelphia, Pa. Water-pressure feeder for boiler-scaling preventives.	526,643	Sept. 25	2287	548	68	1610
Smith, Thomas B., Birmingham, England. Machine for threading wood-screw blanks.	531,226	Dec. 18	2026	483	69	1613
Smith, Thomas C. (See Hadley, Joshua A., assignor.)						
Smith, Thomas E., Kansas City, Mo. Kitchen-cabinet	531,341	Dec. 25	2232	533	69	1667
Smith, Thomas L., Milwaukee, Wis. Weeding and root-pulling implement	531,449	Dec. 25	2435	579	69	1706
Smith, Thomas S., East St. Louis, Ill., and A. M. Shepard, St. Louis, Mo. Steam-trap	531,139	Dec. 18	1858	441	69	1524
Smith, Thomas W. (See Ross, Frank, assignor.)						
Smith, Thomas W., and J. G. Price, assignors to Oliver Iron and Steel Company, Pittsburg, Pa. Die for making end-gate rods for wagone	520,837	June 5	152	33	67	1225
Smith, W. Dean. (See Enholm, Oscar A., assignor.)						
Smith, Walter F. (See Horry, William S., assignor.)						
Smith, Walter F., Philadelphia, Pa., assignor to Heisler Electric Company, Gloucester City, N. J. Incandescent electric-lamp cut-out	525,293	Aug. 23	2231	555	68	1123
Smith, Warren B. (See Tymeson, Eugene, assignor.)						
Smith, William, et al. (See Shelley, Rose M., assignor.)						
Smith, William, Mystic, Iowa. Take-up for ropes	516,555	Mar. 13	1361	323	66	1722
Smith, William, New Castle, Pa. Padlock	528,743	Nov. 6	383	92	69	716
Smith, William, Clarinda, Iowa, assignor of one-half to A. D. Smith, Chicago, Ill. Rotary engine	517,985	Apr. 10	945	237 238	67	192
Smith, William, Clarinda, Iowa, assignor of one-half to A. D. Smith, Chicago, Ill. Rotary steam-engine	517,986	Apr. 10	948	238	67	192
Smith, William, assignor of one-half to R. L. Anderson, Drake's Creek, Ark. Washing-machine	527,458	Oct. 16	1994	316	69	270
Smith, William A., St. James, Minn. Bicycle	516,554	Mar. 13	1359	333	66	1722
Smith, William A., Lawrence, Mass. Winding or spooling machine	530,731	Dec. 11	1162	282 283	69	1440
Smith, William B. (See List and Smith.)						
Smith, William C. (See Sellon, Charles A., assignor.)						
Smith, William C., et al. (See Spencer, Charles T., assignor.)						
Smith, William C., assignor to M. J. O'Donnell & Co., Cleveland, Ohio. Controller for elevators	519,459	May 8	935	225 226	67	731
Smith, William C., and J. Barlow, assignors of one-half to J. E. Stone, Kidderminster, England. Loom for weaving pile and other figured fabrics	511,913	Jan. 2	315	74	66	61
Smith, William E. (See Smith, John H., J. R., and W. E.)						
Smith, William E., Watkins, N. Y. Spring-tooth harrow	522,435	July 3	459	116	68	91
Smith, William E., Watkins, N. Y., assignor of one-half to M. B. Tate, Harrisburg, Pa. Lever-adjusting harrow	522,434	July 3	458	116	68	91
Smith, William F., San Francisco, Cal. Telephone-call recorder	521,422	June 12	1182	281 282	67	1428
Smith, William G., assignor to Winchester Repeating Arms Company, New Haven, Conn. Cartridge-reloading tool	514,737	Feb. 13	1277	319	66	1111
Smith, William H. (See Lajoie, Napoléon, assignor.)						
Smith, William H., Dayton, Ohio. Mechanism for flanging manholes of boilers	525,474	Sept. 4	265	64, 65	68	1200
Smith, William H., and S. D. Freeman, U. S. Army. Bridle-bit	511,811	Jan. 2	97	25	66	22
Smith, William J., New Haven, Conn., assignor to C. S. Larrabee, trustee, Bath, Me. Time-fuse	527,222	Oct. 9	889	215 216	69	181
Smith, William J., New Haven, Conn., assignor to C. S. Larrabee, trustee, Bath, Me. Time-fuse for projectiles	527,250	Oct. 9	937	227	69	189
Smith, William N., Santa Cruz, Cal. Wrench	529,632	Nov. 20	1985	474	69	1047
Smith, William P., Lexington, N. C. Bed-brace	515,557	Feb. 27	2611	648	66	1388
Smith, William R., assignor of two-thirds to J. W. Fisher, Riverside, and T. Clifton, Cincinnati, Ohio. Railway-track	528,309	Oct. 30	2770	669	69	570
Smith, William T., Baltimore, Md. Upright piano or organ case	515,926	Mar. 6	302	71	66	1510
Smith, William T., Norcross, Ga. Chirographer's hand-rest	523,087	July 17	1554	390	68	325
Smith, William T., assignor to Wm. Knabe & Co. Manufacturing Company, Baltimore, Md. Woodworking-machine	514,607	Feb. 13	1060	265	66	1070
Smith, William T., assignor to Wm. Knabe & Co. Manufacturing Company, Baltimore, Md. Upright piano or organ	519,797	May 15	1526	372	67	850
Smith, Wilson R., Beloit, assignor of one-half to J. B. Hatch, Milwaukee, Wis. Friction-clutch	529,314	Nov. 13	1422	342	69	925
Smitham, John W. (See Ensminger and Smitham.)						
Smithard, Walter, Manchester, England. Apparatus for administering nitrous-oxid gas	514,628	Feb. 13	1092	272	66	1076
Smithman, John B., Oil City, Pa. Car-truck	513,835	Jan. 30	3504	863	66	794
Smother, Blannerhasset H., et al. (See Williams, James F. and E. J., assignors.)						
Smouse, George E., Everett, Pa. Nut-lock	529,970	Nov. 27	2763	617	69	1163
Smyth, Charles, Dayton, Ohio. Mechanism for detecting opening of locks	530,133	Dec. 4	96	26	69	1233
Smyth, Charles, assignor to National Cash Register Company, Dayton, Ohio. Cash-register	514,666	Feb. 13	1152	287	66	1088
Smyth, Charles, Dayton, Ohio, assignor, by mesne assignments, to Lamson Consolidated Store Service Company, Boston, Mass. Store-service apparatus	522,625	July 10	778	196	68	166
Smyth, Charles G., assignor to National Cash Register Company, Dayton, Ohio. Cash-register	521,678	June 19	1648	386	67	1528
Smyth Manufacturing Company. (See Coles, Smith, Jamieson, and Jacobs, assignors.)						
Smyth, William H., Berkeley, Cal. Can-head-soldering machine	519,206	May 1	479	116	67	629

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Smyth, William H., Berkeley, Cal. Machine for making can-bodies, &c.	529,815	Nov. 27	2294	{ 547 548 }	{ 69 }	1112
Snape, William. (See Cameron and Snape.)						
Snead & Company Iron Works. (See Snead and Burns, assignors.)						
Snead, John W., Gainesville, Ga. Truss	523,753	July 31	2752	683	68	574
Snead, Udolpho and W. R. and W. M. Burns, assignors to Snead & Company Iron Works, Louisville, Ky. Shelf structure	520,191	May 22	2205	537	67	990
Snead, William R. (See Snead and Burns.)						
Sneath, Richard G., San Francisco, Cal. Anhydrous-ammonia purifier	524,567	Aug. 14	036	255	68	868
Snedeker, Elbert, <i>et al.</i> (See Sherman, Willis D., assignor.)						
Snedeker, Charles T., Worcester, Mass. Painting surfaces	512,523	Jan. 9	1329	-----	66	263
Snediker, William E., Trenton, N. J. Vise	519,008	May 1	112	27	67	557
Snediker, William E., Trenton, N. J. Vise	519,028	May 1	145	35	67	564
Snell, Adolphus G., assignor of one-half to C. B. Jones, New Haven, Conn. Parasol-runner	525,565	Sept. 4	418	100	68	1229
Snell, Arthur E., Utica, assignor of one-half to W. H. S. Northrup, Deerfield, N. Y. Lamp-chimney rack	524,002	Aug. 7	60	14	68	672
Snell, Arthur T., Santa Barbara, Cal. Combined gage and finger-guard	523,380	July 24	2082	524	68	438
Snell, Charles D., Oxford, Me. Sawhorse	522,862	July 10	1173	292	68	238
Snell, Charles M., assignor of one-half to E. E. Hodshon, Danbury, Conn. Hat-blocking and band-cutting machine	526,269	Sept. 18	1639	{ 386 387 }	{ 68 }	1475
Snell Cycle Fittings Company. (See Bishop, Alfred H., assignor.)						
Snell, Fernando J. (See Sharples and Snell.)						
Snell, Luther C., Detroit, Mich. Apparatus for storing and feeding oil	519,439	May 8	908	219	67	726
Snidow, W. T. (See Baldwin, Daniel M., assignor.)						
Sniffin, Charles A. (See Waller and Sniffin.)						
Sniffin, George. (See O'Connell and Sniffin.)						
Snodgrass, Arthur T., Dothan, Ala. Engine cross-head	524,074	Aug. 7	177	40	68	694
Snodgrass, W. C., <i>et al.</i> (See Woodall, Charles H., assignor.)						
Snook, Frank M., assignor to J. K. Holloway and G. F. Dana, Cincinnati, Ohio. Ice-cream freezer	522,806	July 10	1096	270	68	223
Snook, Harland B., Union City, Ohio. Automatic heat-regulator	516,880	Mar. 20	1900	449	66	1849
Snow, Charles A., Brick Haven, Va. Brick-kiln	512,334	Jan. 9	998	244	66	201
Snow, Charles A., Lime Springs, assignor of one-half to C. W. Giesen, Calmar, Iowa. Animal-trap	526,587	Sept. 25	2195	{ 524 525 }	{ 68 }	1592
Snow, Gilbert B., assignor to Elgin Wind Power and Pump Company, Elgin, Ill. Wind-mill	517,198	Mar. 27	2463	{ 579 580 }	{ 66 }	1963
Snow, Levi T., New Haven, assignor of one-half to O. D. Woodruff, Southington, Conn. Rotary meat-cutter	518,047	Apr. 10	1058	268	67	210
Snow, Levi T., New Haven, and F. H. Pierpont, Hartford, Conn., assignors to Thompson & Bushnell Company, New York, N. Y. Reducing mechanism for steam-engine indicators	515,175	Feb. 20	1968	490	66	1255
Snowden, Robert C., Duquesne, Pa. Nut-lock	513,209	Jan. 23	2457	593	66	561
Snowden, Robert C., Duquesne, Pa. Box-strap and corner-iron	513,210	Jan. 23	2458	594	66	562
Snowdon Manufacturing Company. (See Crolley, Sherman, assignor.)						
Snowman, Herman C. F. E., New Paltz, N. Y. Means for transmitting motion	530,972	Dec. 18	1562	370	69	1529
Snowman, Herman C. F. E., New Paltz, N. Y. Stopple for bottles	516,081	Apr. 10	1104	279	67	217
Snowman, Herman C. F. E., New Paltz, assignor to New York Labor Saving Patents Exploiting Company, New York, N. Y. Envelope	531,221	Dec. 18	2122	509	69	1631
Snowman, Herman C. F. E., New Paltz, and N. E. Lacey, Highland, N. Y. Burglar-alarm	515,558	Feb. 27	2612	648	66	1388
Snyder, Andrew W., <i>et al.</i> (See Ring, Smith, and Anness, assignors.)						
Snyder, Arthur M., Fairfield, Iowa. Interchangeable sprocket	529,843	Nov. 27	2343	558	69	1122
Snyder, Charles F., St. Louis, Mo., assignor to H. B. and C. F. Stout, Chicago, Ill. Curling-iron	520,903	June 5	272	65	67	1247
Snyder, Charles F., St. Louis, Mo., assignor to H. B. and C. F. Stout, Chicago, Ill. Curling-iron	520,904	June 5	273	66	67	1247
Snyder, Cyrus, assignor to Advance Thresher Company, Battle Creek, Mich. Tally-register for grain-measurers	528,817	Nov. 6	525	127	69	741
Snyder, Frank E., Massillon, Ohio. Combination-tool	518,283	Apr. 17	1459	365	67	300
Snyder, Fred. B. (See Snyder, Simon P., assignor.)						
Snyder, George C., assignor of one-half to H. D. H. Snyder, Chicago, Ill. Fence	521,275	June 12	923	219	67	1377
Snyder, Grace M. (See Snyder, Robert J., assignor.)						
Snyder, Henry D. H. (See Snyder, George C., assignor.)						
Snyder, John C., <i>et al.</i> (See Allen, Harvey, assignor.)						
Snyder, John J., <i>et al.</i> (See Allen, Harvey, assignor.)						
Snyder, John T., Luzerne, Pa. Cutting-bit for drilling-machines	513,541	Jan. 30	3030	747	66	706
Snyder, Robert J., assignor to G. M. Snyder, Bethlehem, Pa. Method of and apparatus for aligning machinery	529,315	Nov. 13	1423	342	69	925
Snyder, Samuel L., Clearfield, Pa. Screw-driver	518,472	Apr. 17	1804	446	67	362
Snyder, Simon P., assignor of one-fourth to F. B. Snyder, Minneapolis, Minn. Dumping-wagon	522,697	July 10	890	220	68	186
Snyder, Waldo V., Canton, Ohio. Tricycle	512,335	Jan. 9	1000	244	66	201
Soames, David, East Jordan, Mich. Eaves-trough hanger	523,243	July 17	1850	467	68	380
Soars, John H., Muncy, Pa. Woodworking-machine	516,776	Mar. 20	1733	408	66	1806
Soblik, Paul, Magdeburg, Germany. Keyboard attachment for pianofortes	524,959	Aug. 21	1685	413	68	998
Société Anonyme de l'Institut Raoul Pictet. (See Pictet, Raoul P., assignor.)						
Société Anonyme de la Serreure sans Clef. (See Bois, Jules, assignor.)						
Société Anonyme des Moteurs Thermiques Gardie. (See Lorois, Maurice, assignor.)						
Société Anonyme pour la Transmission de la Force par l'Electricité. (See Hutin and Le-blanc, assignors.)						
Société Française des Moteurs Crébessac. (See Crébessac, Léonce, assignor.)						
Société Générale des Téléphones, (Réseaux Téléphoniques et Constructions Électriques.) (See Berthon, Louis A., assignor.)						
Société pour la Fabrication des Munitions d'Artillerie. (See Jonët-Pastré, Michel A., assignor.)						
Society Lepage & Cie. (See Lavy, Alphonse, assignor.)						
Society of Chemical Industry in Basle. (See Schmid, Jakob, assignor.)						
Society of Chemical Industry in Basle. (See Schmid and Bachelut, assignors.)						
Soder, William. (See Goodgion, Hervey C., assignor.)						
Sodergren, Eric, Brooklyn, N. Y. Sofa-bed	519,207	May 1	483	117	67	631
Soderstrum, Carl G., Denver, Colo. Ore-car	515,306	Feb. 20	2195	544	66	1298
Soffel, August, Brooklyn, N. Y. Safety-guard for cars	521,966	June 26	2169	520	67	1643
Sohège, Paul, Paris, France. Machine for molding paper-stuff boxes	516,946	Mar. 20	2014	{ 475 476 }	{ 66 }	1860
Sokoloff, Alexis. (See Ranser, Wieber, and Sokoloff.)				{ 250 251 }	{ 67 }	1406
Soleau, Edward R., assignor of one-half to I. F. Roe, Newark, N. J. Heating apparatus	521,348	June 12	1070			

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Soley, William H., <i>et al.</i> (See Carlinet, John G., assignor.)						
Sollenberger, John T., assignor of one-half to A. A. Charles, Kokomo, Ind. Apparatus for plugging and topping tomatoes, &c., in cans	512,913	Jan. 16	2009	477	66	407
Solomon, John I., assignor to Infinity Manufacturing Company, New York, N. Y. Dry battery	525,935	Aug. 28	2191	535	68	1104
Solter, John, Baltimore, Md. Mechanism for fluxing cans	512,403	Jan. 9	1120	270	66	223
Solvay, Ernest, Brussels, Belgium. Charging apparatus	531,282	Dec. 18	2123	509	69	1631
Solvay, Ernest, Brussels, Belgium, assignor to Solvay Process Company, Syracuse, N. Y. Purifying ammonia	518,428	Apr. 17	1725	430	67	348
Solvay, Ernest, Brussels, Belgium, assignor to Solvay Process Company, Syracuse, N. Y. Apparatus for causticizing ammonia-liquor	518,429	Apr. 17	1728	430	67	349
Solvay Process Company. (See Solvay, Ernest, assignor.)						
Somborn, Julius. (See Stirn, Louis, assignor.)						
Somers, Daniel M., Brooklyn, N. Y. Hydrocarbon-burner	517,247	Mar. 27	2536	596	66	1977
Somers, Joseph C., assignor of one-half to A. E. Jones, Philadelphia, Pa. Merry-go-round	516,616	Mar. 13	1461	345	66	1741
Somers, Robert W., Fremont, Nebr. Scrubbing-machine	519,100	May 1	273	65	67	588
Sommer, Adolph, Boston, Mass. Making liquid chlorides	523,715	July 31	2088	666	68	562
Sommer, Adolph, Cambridge, Mass. Desulfurizing mineral oils	523,716	July 31	2090	666	68	562
Sommer, Adolph, Cambridge, Mass. Solution of sweet carbamids in oils, &c	524,513	Aug. 14	950		68	851
Sommer, Adolph, Cambridge, Mass. Solution of sweet carbamids in oils, &c., and making same	524,514	Aug. 14	950		68	851
Sommer, Adolph, Berkeley, Cal. Desulfurizing mineral oils	525,969	Sept. 11	1135	258	68	1370
Sommer, Henry P., Chicago, Ill. Electric time-alarm	518,971	May 1	56	14	67	546
Sommer, John L., Newark, N. J. Cigarette or match case	527,625	Oct. 16	1557	377	69	317
Sommerfruechte, Emil A., St. Louis, Mo. Carriage-top	518,746	Apr. 24	2280	566	67	460
Son, Eleanor D., Utica, N. Y. Tailpiece for banjos	516,125	Mar. 6	627	147	66	1570
Sonntag, William L., and R. A. Brennan, Evansville, Ind. Display-counter	515,559	Feb. 27	2613	648	66	1388
Sörensen, Niels G., Stockholm, Sweden. Door-check	514,511	Feb. 13	897	222	66	1040
Sorenson, Martinus, assignor of one-fourth to C. C. Mattson, Racine, Wis. Corn-harvester	525,393	Sept. 4	123	32, 33	68	1173
Sorg, Ferdinand. (See Storz, Sorg, and Henni.)						
Sorley, Charles, and J. K. Pumpelly, assignors to Pumpelly-Sorley Storage Battery Company, Chicago, Ill. Forming storage-battery plates	521,897	June 26	2033	490	67	1619
Sorrell, Matthew C., Raleigh, N. C. Cradle	529,816	Nov. 27	2302	548	69	1115
Sotter, Frederick, Coatesville, Pa. Punching-machine and stripper therefor	528,039	Oct. 23	2291	552	69	467
Sotter, Frederick, Coatesville, Pa. Machine for bending special shapes of iron, steel, or other metal	529,536	Nov. 20	1839	{ 438 439 }	69	1020
Souchon, Edmond, New Orleans, La. Inhaler	531,476	Dec. 25	2177	590	69	1714
Soucek, Joseph, Allegheny, Pa. Triple valve for fluid-pressure brake systems	518,705	Apr. 24	2199	543	67	446
Soner, George, Rice's, Minn. Car-coupling	529,207	Nov. 13	1223	296	69	888
Sonle, Winfield S., Brockton, Mass. Sewing-machine attachment	524,739	Aug. 21	1321	323	68	933
Soulier, Paul, Paris, France. Calculating apparatus	517,308	Mar. 27	2042	620	66	1997
South Bend Iron Works. (See Anderson, Charles, assignor.)						
Southard, Abraham M. (See McMahan and Southard.)						
Southard, C. B., trustee. (See Hodges and Havenstrite, assignors.)						
Southard, Calvin B., St. Albans, Me. Box-machine	521,224	June 12	839	{ 196 197 }	67	1362
Southard, Charles E., St. Louis, Mo. Steam-boiler furnace	512,127	Jan. 2	361	158	66	127
Southard, Robertson & Co. (See Southard, William D., assignor.)						
Southard, William D., assignor to Southard, Robertson & Co., Peekskill, N. Y. Stove	516,233	Mar. 13	819	191	66	1621
Southbridge Optical Company. (See Bugbee and Reno, assignors.)						
Souther, Calvin N., assignor to Poole Brothers, Chicago, Ill. Ticket-stamp	529,669	Nov. 20	2046	{ 490 491 }	69	1058
Southern Cotton Harvester Company. (See Turner, Leonard E., assignor.)						
Southern Engine and Boiler Works. (See Lovrien, George W., assignor.)						
Southeate, Louis W., Worcester, Mass., assignor to Otis Brothers & Company, New York, N. Y. Elevator-controller	527,896	Oct. 23	2025	487	69	419
Southwark Foundry and Machine Company. (See Good, William E., assignor.)						
Southwark Foundry and Machine Company. (See Good and Petsche, assignors.)						
Southwell, Charles C., Milwaukee, Wis. Toothpick	516,409	Mar. 13	1108	263	66	1675
Southwell, George, Westport, Mo. Billiard-cue chalk	519,356	May 8	774	189	67	701
Southwick, Charles A., Peabody, Mass. Automatic water-feeder	518,866	Apr. 24	2163	610	67	493
Southwick, Plin C., Sandwich, Ill. Baling-press	515,373	Feb. 27	2315	{ 574 575 }	66	1332
Southworth, Walter H., assignor of two-thirds to V. A. Cordes and J. A. Webb, Memphis, Tenn. Automatic switch	517,595	Apr. 3	291	68	67	57
Souvazoglu, Pericles. (See Sarapata and Souvazoglu.)						
Sowatsky, Frederick W., and M. Schimmeyer, Saginaw, Mich. Tally-table	522,568	Nov. 6	82	21	69	661
Sowden, Mark, <i>et al.</i> (See Wellens, William, assignor.)						
Sowden, William, New York, N. Y. Game-counter	515,560	Feb. 27	2614	648	66	1389
Sowdon, William, New York, N. Y. Duplicate-whist apparatus	530,665	Dec. 11	1056	257	69	1422
Spacke, Fred W., Indianapolis, Ind. Centrifugal high-speed governor	521,483	June 19	1318	307	67	1468
Spaedy, John B. (See Zahringer and Spaedy.)						
Spaeth, Sigmund, Falls City, Nebr. Aerial vessel	514,277	Feb. 6	536	132	66	954
Spain, James A., Tallbotton, Ga. Hame attachment	522,436	July 3	460	116	68	91
Spalding, Warren A., New Haven, Conn. Box for tooth-powder	512,065	Jan. 2	562	133	66	107
Spalding, Zephaniah S., Kealia, Island of Kauai, Sandwich Islands. Filtration of liquids	517,966	Apr. 10	911	228	67	187
Spall, Michael. (See Cable, James M., assignor.)						
Spalsbury, Charles C., East Orange, N. J. Photographic-plate holder	512,914	Jan. 16	2010	477	66	407
Spang, George A., North Tonawanda, N. Y. Pressure-blower	519,650	May 8	1286	308	67	792
Spangenberg, Heinrich K., Leipzig, Germany. Battery-switch	530,804	Dec. 11	1277	308	69	1463
Spannagel, Gustave H. (See Rhoads and Spannagel.)						
Spanoghe, Josse E., Antwerp, Belgium. Steam-boiler	527,459	Oct. 16	1295	316	69	270
Sparham, Terence, Brockville, assignor of one-half to H. C. Mitchell and J. E. Hulett, Toronto, Canada. Boiler-covering	512,524	Jan. 9	1330		66	263
Sparkman, James S., Hamilton, Tex. Wire-stretcher	512,629	Jan. 9	1483	358	66	292
Sparks, Albert F., assignor to James Leffel & Company, Springfield, Ohio. Water-wheel	525,431	Sept. 4	193	48	68	1187
Sparks, Charles F., <i>et al.</i> (See Garstang, Richard, assignor.)						
Sparks, Charles F., Alton, Ill. Engine	528,818	Nov. 6	527	127	69	741
Sparks, William E., assignor to Sargent & Company, New Haven, Conn. Padlock	521,994	June 26	2230	536	67	1654
Sparling, Fletcher, Boston, Mass. Switch-actuator for street-cars	518,972	May 1	56	14	67	547
Sparmaker, Frank P., assignor of one-half to W. T. Cunningham, Philadelphia, Pa. Cigar-tip cutter	528,996	Nov. 13	866	205	69	825
Sparr, Benjamin F., Brooklyn, N. Y. Steam-engine	520,456	May 29	2645	639	67	1689
Spaulding, Alfred F., Northfield, Vt. Stone-polishing machine	515,801	Mar. 6	117	28	66	1475

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Spaulding, Algenon S., Worcester, Mass. Cutter-head.....	531,396	Dec. 25	2328	555	69	1687
Spaulding, Algenon S., Worcester, Mass., assignor to Flexible Door and Shutter Company, Portland, Me. Flexible door.....	520,089	May 22	2011	491	67	955
Spaulding, Algenon S., Worcester, Mass., assignor to Flexible Door and Shutter Company, Portland, Me. Flexible door.....	531,227	Dec. 18	2028	483	69	1614
Spaulding, Harlow E., assignor to S. A. Rickard, Saratoga Springs, N. Y. Hand-truck.....	512,915	Jan. 16	2012	477	66	407
Spaulding, Hollon C., Boston, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electrical hoisting apparatus.....	516,843	Mar. 20	1841	435	66	1828
Spaulding, James W., <i>et al.</i> (See Boomhower, Eli E., assignor.)						
Spaulding, Philo B. (See Gazlay, Henry W., assignor.)						
Speaker, Charles E., Louisville, Ky. Tobacco-box.....	514,512	Feb. 13	897	228	66	1040
Spear, Henry A., Everett, Mass. Heating and water-circulating system.....	527,626	Oct. 16	1558	377	69	317
Spear, James, Philadelphia, Pa. Stove or range.....	521,827	June 26	1909	478	67	1594
Spear, James, Philadelphia, Pa. Caboose or other stove.....	526,206	Sept. 18	1541	362	68	1456
Speare, Andrew J., assignor of one-half to H. J. F. Davis, Thayer, Mo. Electric hand appliance for massage.....	524,120	Aug. 7	258	60, 61	68	709
Spears, John E., Brooklyn, N. Y. Index.....	521,324	June 12	1015	239	67	1394
Spears, Ralph R. (See Grafton and Spears.)						
Spears, Ralph R., Wheeling, W. Va. Turning-lathe for axle-boxes.....	530,861	Dec. 11	1365	326	69	1479
Spears, William A. (See Kirchner and Spears.)						
Specht, Eugene T., <i>et al.</i> (See Wheeler, Fred A., assignor.)						
Specht, John, and I. Armand, Gaza, Iowa. Planter.....	527,816	Oct. 23	1874	450	69	392
Specialty Company. (See Cleland, John W., assignor.)						
Speckin, Charles W., Argentine, Kans. Railway-frog.....	528,348	Oct. 30	2826	683	69	579
Speed, Charles F., E. W. Barker, and C. P. Frank, Duluth, Minn. Electric switch.....	517,773	Apr. 3	602	148	67	116
Speed, E. W., <i>et al.</i> (See Armistead, Fabian H., assignor.)						
Speed, Francis M., assignor to Pneumatic Brake Company, San Francisco, Cal. Pneumatic brake.....	512,233	Jan. 2	832	202	66	157
Speer, Henry A. (See Maxfield, Griffin, and Speer.)						
Speer, Porter B., Muscatine, Iowa. Paddle-wheel for steamboats.....	513,836	Jan. 30	3506	263	66	795
Speicher, Mathias (See Simpson and Speicher.)						
Speirs, John C. (See Torkelson, Reinhard T., assignor.)						
Spence, William G., Stittville, N. Y. Apparatus for inspecting milk.....	517,367	Mar. 27	2740	644	66	2017
Spence, William H., Fairmount, Ind. Blackboard-eraser.....	511,812	Jan. 2	99	25	66	22
Spencer, Alvah C. (See Hanscom and Spencer.)						
Spencer, C. Homer. (See Wallace, Fredrick B., assignor.)						
Spencer, Charles L., Providence, R. I. Raisin-seeding machine.....	525,432	Sept. 4	194	49	68	1187
Spencer, Charles T., assignor of one-half to W. R. Compton and W. C. Smith, Elmira, N. Y. Hasp-lock.....	514,341	Feb. 6	624	159	66	970
Spencer, Christopher, assignor to I. S. Spencer's Sons, Guilford, Conn. Spring-scale.....	530,362	Dec. 4	508	125 } 69	1307	
Spencer, David, Shenandoah, Va. Rod or valve packing box.....	521,575	June 19	1473	345 } 67	1496	
Spencer, De Witt C. (See Stonffer, Hiram C., assignor.)						
Spencer, Dennis. (See Gwynn and Spencer.)						
Spencer, Frank F. (See Phillips, Elwood C., assignor.)						
Spencer, Frank M. (See Brandt, A. G., assignor.)						
Spencer, Frank M. (See Brandt and Spencer.)						
Spencer, George H., Chicago, Ill. Appliance for handling timber.....	516,234	Mar. 13	820	192	66	1621
Spencer, Henry B. (See Borbridge, Fraser, and Prenter, assignors.)						
Spencer, J. R., <i>et al.</i> (See Armistead, Fabian H., assignor.)						
Spencer, Jehial, Milledgeville, Ill. Valve-gear.....	514,783	Feb. 13	1351	337	66	1125
Spencer, Joseph, Cornwall, Canada. Paper-cutting machine.....	519,075	May 1	235	55	67	581
Spencer, Julius A., Dwight, Ill. Baling-press.....	526,060	Sept. 18	1281	296	68	1410
Spencer, Theodore, Cambridge, assignor to American Bell Telephone Company, Boston, Mass. Telephone circuit and signal.....	528,040	Oct. 23	2292	553	69	468
Spencer, Thomas, Philadelphia, Pa. Alternating-current arc-lighting system.....	519,849	May 15	1604	392	67	865
Spencer, William B., assignor of one-half to T. W. Knill, Chicago, Ill. Inhaler.....	513,153	Jan. 23	2376	573	66	546
Spencer's Sons, I. S. (See Spencer, Christopher, assignor.)						
Spengler, Charles and G., Rockford, Ill. Combined latch and knob.....	527,627	Oct. 16	1560	378	69	318
Spengler, George. (See Spengler, Charles and G.)						
Spengler, Reinhart, assignor to J. Naday and S. L. Fleischer, New York, N. Y. Embroidering-machine.....	514,138	Feb. 6	250	61	66	901
Sperry, Daniel S., and G. R. Hannum, Huntsburg, Ohio. Sap-bucket cover.....	524,356	Aug. 14	684	166	68	802
Sperry Electric Railway Company. (See Sperry, Elmer A., assignor.)						
Sperry, Elmer A., Cleveland, Ohio. Electrical controller.....	515,374	Feb. 27	2319	575	66	1333
Sperry, Elmer A., Cleveland, Ohio, and G. E. Mills, Ravenswood, Ill. Automatic regulator for dynamo-electric machines.....	513,062	Jan. 16	2234	537	66	449
Sperry, Elmer A., Cleveland, Ohio, assignor to Sperry Electric Railway Company, of Ohio. Controller for electric or other motors.....	525,394	Sept. 4	132	33	68	1174
Sperry, Elmer A., Cleveland, Ohio. assignor to Sperry Electric Railway Company, of Ohio. System and apparatus for control of electric machines.....	525,395	Sept. 4	134	34	68	1174
Sperry, Erwin S., Bridgeport, Conn., assignor, by mesne assignments, to Waldo Foundry, of New Jersey. Liquid-fuel furnace.....	515,261	Feb. 20	2112	524	66	1282
Sperry, Erwin S., Bridgeport, Conn., assignor, by mesne assignments, to Waldo Foundry, of New Jersey. Liquid-fuel furnace.....	518,794	Apr. 24	2353	583	67	474
Spaulda, Martin W. (See Frazier, Spaulda, and Du Bois.)						
Spielmann, Adolf. (See Emanuel and Spielmann.)						
Spielmann, Charles, Brooklyn, assignor to W. A. Force & Co., New York, N. Y. Consecutive-numbering machine.....	518,632	Apr. 24	2064	513 } 67	422	
Spier, Anton, Boulder, Colo. Furnace for roasting and distilling refractory ores.....	516,126	Mar. 6	628	147	66	1570
Spies, Rudolf, <i>et al.</i> (See Hauser, Gottfried, assignor.)						
Spillan, William D. (See Briody, Thomas P., assignor.)						
Spiller, Harry A., assignor to Crosby Steam Gauge and Valve Company, Boston, Mass. Steam-engine indicator.....	523,417	July 24	2147	539	68	449
Spindler, Charles, Jr., Peoria, Ill. Hot-air pipe.....	527,734	Oct. 16	1738	419	69	351
Spinney, Benjamin F., <i>et al.</i> (See Lombard, Levi W., assignor.)						
Spiro, Charles, New York, N. Y. Table for wrapping bundles.....	523,056	July 17	1514	379	68	318
Spiro, Charles, New York, N. Y. Type-writing machine.....	529,208	Nov. 13	1229	296	69	888
Spitzer, Alfons, Buda-Pesth, assignor to W. Kralik Sohn, Eleonoronhan, Austria-Hungary. Making rose-red glass.....	518,336	Apr. 17	1554	.....	67	316
Spitzer, Oliver, Brooklyn, N. Y. Freight-transferring device.....	512,066	Jan. 2	564	133	66	107
Spivey, John F., Fairview, W. Va. Ventilated chimney-top.....	517,309	Mar. 27	2643	621	66	1998*
Splithoff, Peter, assignor of one-half to C. E. Pierce, Boston, Mass. Adjustable roll for printing-presses.....	516,127	Mar. 6	629	147	66	1570

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Splitstoser, Ferdinand, North Branch, Minn. Poison-distributor.....	525,632	Sept. 4	515	124	68	1247
Spofford, Carlton J., Dolgeville, N. Y. Bicycle-tire.....	519,976	May 15	1813	444	67	904
Spofford, Marcellus E., Keene N. H. Faucet.....	519,049	May 1	179	43	67	571
Spooner, Allen N., Jersey City, N. J., and H. C. Calkins, New York, N. Y. Toilet-paper holder.....	516,235	Mar. 13	822	192	66	1622
Spooner, Frank A., <i>et al.</i> (See Chick Horace F., assignor.)						
Spooner, George A. T., Boston, Mass. Pasting-machine.....	530,312	Dec. 4	414	104	69	1290
Spooner, George P., Bron-y-Garth, England. Magazine photographic camera.....	522,921	July 10	1275	{ 315 316 }	68	257
Spooner, Spencer, Brooklyn, N. Y., assignor to Jennings Lace Works, of New York. Warp fabric.....	519,101	May 1	275	65	67	568
Sporborg, William L. (See Lintner, William T., assignor.)						
Spradlin, James E. (See Spradlin, William H. H., assignor.)						
Spradlin, William H. H., assignor of one-half to J. E. Spradlin, South Fork, Mo. Whiffletree.....	523,381	July 24	2084	525	68	433
Sprague, Austin V. M., Rochester, N. Y. Water-sterilizing apparatus.....	527,084	Oct. 9	666	163	69	140
Sprague, Austin V. M., Rochester, N. Y., assignor to Sprague-Schuyler Manufacturing Company, of New Jersey. Radiator.....	512,234	Jan. 2	834	202	66	158
Sprague, C. C. (See Sprague and Rutter, assignors.)						
Sprague, Carlton R. (See Briggs, Eli B., assignor.)						
Sprague, Charles A., Dayton, Ohio. Stamp-sticking device.....	517,494	Apr. 3	133	29	67	28
Sprague, Gustavus A. H. (See McIntyre and Sprague.)						
Sprague, Henry H., Chicago, Ill. Gas-meter.....	517,368	Mar. 27	2741	{ 644 645 }	66	2018
Sprague, James H., Norwalk, Ohio. Self-closing umbrella.....	521,828	June 26	1910	458	67	1594
Sprague, James L. (See Coats and Sprague.)						
Sprague, James O., and J. W. Guthrie, Sacramento, Cal. Carburetor.....	527,085	Oct. 9	667	163	69	140
Sprague, Linus K., and F. W. Bajus, New Haven, Conn. Billiard-cue.....	524,871	Aug. 21	1544	378	68	973
Sprague, Robert M., and J. F. Rutter, assignors of one-third to C. C. Sprague, Council Bluffs, Iowa. Basket-truck.....	523,244	July 17	1860	467	68	380
Sprague-Schuyler Manufacturing Company. (See Sprague, Austin V. M., assignor.)						
Spratt's Patent, (America.) (See Cleather and Gibson, assignors.)						
Spreckels, Claus, Philadelphia, Pa. Apparatus for heating water in sugar-refineries.....	529,469	Nov. 20	1716	409	69	998
Spring Curry Comb Company. (See Bartlett, Charles H., assignor.)						
Spring, George W., and G. W. Printz, Crooksville, Ohio. Jug.....	524,226	Aug. 7	438	103	68	741
Springer, Amos C., Seattle, Wash. Ore-concentrator.....	527,223	Oct. 9	891	216	69	181
Springer Automatic Thrasher Company. (See Springer, William N., assignor.)						
Springer, Isaac, and H. Eviston, Indianapolis, Ind., assignors to Indianapolis Basket Company. Shipping-basket.....	512,404	Jan. 9	1121	271	66	223
Springer, Lorin C., Chicago, Ill. Automatic boiler-feed.....	518,009	Apr. 10	993	248	67	200
Springer, William N., Fortville, assignor to Springer Automatic Thrasher Company, Anderson, Ind. Thrashing-machine.....	518,706	Apr. 24	2201	549	67	446
Springfels, Charles F., Buffalo, N. Y. Snow or ice melting apparatus.....	520,941	June 5	352	85	67	1261
Springfield Emery Wheel Company. (See Giblin, John T., assignor.)						
Springstead, Abram B., and J. J. Lawler; said Lawler assignor to Kalamazoo Casket Company, Kalamazoo, Mich. Casket-lid.....	514,667	Feb. 13	1157	228	66	1089
Sprung, Isaac, New York, N. Y. Combined muff and purse.....	526,950	Oct. 2	464	114	69	87
Spurgin, Robert, Chicago, Ill. Currency-strap.....	513,211	Jan. 23	2459	594	66	562
Spurlock, John A., Ava, Mo. Burglar-alarm.....	514,513	Feb. 13	898	229	66	1040
Spyer, Joseph, Mexico, Mexico. Making dental plates.....	525,519	Sept. 4	332	82	68	1213
Spyer, Joseph, Mexico, Mexico. Rubber dental-plate blank.....	527,817	Oct. 23	1875	450	69	393
Squier, Wilbur P., Blair, Nebr. Signal.....	519,009	May 1	113	27	67	557
Squires, Asa P., Chicopee Falls, Mass. Felly for bicycle-wheels.....	521,187	June 12	772	181	67	1350
Squires, Charles H. (See Lindsey and Squires.)						
Squires, George W., <i>et al.</i> (See Walter, John P., assignor.)						
St. Cloud Vulcanized Fibreware Company. (See Dyer and Bingham, assignors.)						
St. Denis, M. H. (See Gendron, Joseph A., assignor.)						
St. George, William H., Ashland, Mass. Automatic tension-regulator for spooling-machines.....	517,495	Apr. 3	134	29	67	28
St. John, Frank J., Philadelphia, Pa. Grate-bar.....	515,847	Mar. 6	138	45	66	1488
St. John, Garland B., Kalamazoo, Mich. Plow.....	512,455	Jan. 9	1225	296	66	243
St. John, Garland B., Kalamazoo, Mich. Plow-holder attachment.....	512,456	Jan. 9	1226	296	66	243
St. John, Garland B., assignor of one-half to C. D. Fuller, Kalamazoo, Mich. Apparatus for signaling the approach of street-cars.....	527,461	Oct. 16	1298	317	69	271
St. John, Spencer H., Cañon City, Colo. Pulley.....	516,688	Mar. 20	1590	379	66	1781
St. Louis Art Metal Company. (See Pauly and Schneider, assignors.)						
St. Louis, Antoine. (See Pelkey and St. Louis.)						
St. Louis Car Coupler Company. (See Wolcott and O'Hara, assignors.)						
St. Louis Register Company. (See Catlin and Rein, assignors.)						
St. Louis Stamping Company. (See Niedringhaus, George W., assignor.)						
St. Martin, Alexander P. (See Bodley and St. Martin.)						
St. Paul Clay Car Seal Company. (See Flower and Denney, assignors.)						
Staats, William H., assignor of one-half to J. F. Griffin, Chicago, Ill. Case for money-changers.....	525,726	Sept. 11	704	163	68	1293
Staber, George, Brooklyn, N. Y. Wood-embossing machine.....	518,902	Apr. 24	2534	627	67	508
Stables, Arthur, Mammoborough, Va. Sliding planer.....	512,916	Jan. 16	2013	477	66	408
Stacey, Henry. (See Lightford, James G., assignor.)						
Stackhouse, Thomas H., Philadelphia, Pa. Machine for printing from stencils.....	513,212	Jan. 23	2460	{ 594 595 }	66	562
Stacy, Charles L., Covington, Ky. Smoke-preventing furnace.....	513,154	Jan. 23	2378	573	66	547
Stacy, Frank T., Philadelphia, Pa. Fire-escape.....	524,471	Aug. 14	875	216	68	839
Stacy, George W., Detroit, Mich. Shoe-holder for nailing-machines.....	519,208	May 1	485	{ 117 118 }	67	631
Stadtmuller, Max F., Pomeroy, Iowa. Device for attaching hay-loaders to wagons.....	524,960	Aug. 21	1686	413	68	998
Staefin, Eugen, Calw, Germany. Necktie-holder.....	522,437	July 3	461	116	68	92
Staff, Peter N. (See Mayes, Wilton P., assignor.)						
Stafford, Charles M., Milwaukee, Wis. Implement for cleaning gun-barrels.....	514,514	Feb. 13	899	229	66	1040
Stafford, George A., Montague, Tex. Quilting mechanism for sewing-machines.....	526,465	Sept. 25	2018	{ 480 481 }	68	1559
Stafford, George W., Providence, R. I. Shedding mechanism for looms.....	516,169	Mar. 6	699	165	66	1584
Stafford, George W., Providence, R. I. Shuttle-box-operating mechanism for looms.....	521,576	June 19	1474	345	67	1496
Stafford, George W., Providence, R. I. Shuttle-box-operating mechanism for looms.....	521,577	June 19	1476	345	67	1496
Stafford, James F., Wichita, Kans. Truss.....	530,973	Dec. 18	1564	371	69	1529
Stafford, William E., Shedden, Canada. Riding attachment for plows.....	523,017	July 17	1457	{ 362 363 }	68	306

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Stabel, Jakob, Wollishofen, Switzerland. Device for lessening the noise of firearms	516,236	Mar. 13	823	192	66	1622
Stahl, Emil, New York, N. Y. Apparatus for charging and drawing carbonated beverages.	523,872	July 31	2963	738	68	614
Stahl, Emil, New York, N. Y. Bottling-machine	525,869	Sept. 11	976	{ 218 219 }	{ 68 }	1341
Stahl, Erasmus. (See Annenberg and Stahl.)						
Stahl, Karl M., New York, N. Y. Smoke-conveyer	511,813	Jan. 2	100	25	66	22
Stahl, Sebald, assignor to H. Lindner, Nuremberg, Germany. Band or cord self-acting n-	521,276	June 12	923	219	67	1378
roller on jalousies	531,071	Dec. 18	1727	411	69	1560
Stahley, Simon A., Suspension Bridge, N. Y. Coupling	515,451	Feb. 27	2442	605	66	1356
Stair, Adam, Mount Eaton, Ohio. Vehicle-pole coupling	512,669	Jan. 9	1556	{ 373 374 }	{ 66 }	306
Staley, Joseph L., assignor of one-half to H. W. Funk, Bloomington, Ill. Cultivator	512,405	Jan. '9	1123	271	66	224
Staley, Levi, Alcony, Ohio. Fanning-mill	528,449	Oct. 30	3005	726	69	611
Staley, Raleigh H., Sheridan, Ind. Method of and apparatus for removing water or oil	523,780	July 31	2792	693	68	582
from bottoms of gas-wells						
Stalford, Fredrick D., Des Moines, Iowa. Trace-fastener	515,623	Feb. 27	2713	{ 675 676 }	{ 66 }	1409
Stall, Henry A., Prattsville, N. Y. Linotype-machine						
Stallard, Sherman R., Merit, Tex. Calculating-machine	518,284	Apr. 17	1461	{ 365 366 }	{ 67 }	300
Stallmann, Otto, assignor to M. Daly, Anaconda, Mont. Apparatus for removing slag	512,761	Jan. 16	1747	414	66	357
Stambaugh, Julius L., Standart, Tex. Wrench	528,398	Oct. 30	2916	706	69	595
Stamm, Fred C., Princeton, assignor of one-half to H. L. Carpenter, Minneapolis, Minn.						
Machine for counting teeth of cog-wheels	525,671	Sept. 4	587	140	68	1259
Stamm, Friedrich H. G. (See Geritz and Stamm.)						
Stamp, John G., Buffalo, N. Y. Air-injector	517,629	Apr. 3	350	83	67	68
Stamp, John G., Buffalo, N. Y. Hydraulic elevator	518,377	Apr. 17	1646	{ 406 407 }	{ 67 }	333
Stanbridge, Hiram C., New Bedford, Mass. Veterinary tooth-cutter	515,943	Mar. 6	330	79	66	1515
Stanbrough, Rufus G., New York, N. Y. Angle attachment for dental handpieces	517,248	Mar. 27	2541	596	66	1978
Stanbrough, Rufus G., New York, N. Y. Angle attachment for dental handpieces	517,249	Mar. 27	2543	597	66	1978
Stanbrough, Rufus G., New York, N. Y. Dental engine	520,867	June 5	206	46	67	1235
Stanchfield, John B. (See McCawley and Kingsley, assignors.)						
Stanchfield, John B., et al. (See Kingsley, Alba T., assignor.)						
Stanchiff, Edwin, New York, N. Y. Friction grip mechanism	514,571	Feb. 13	991	250	66	1058
Stanchiff, Edwin, New York, N. Y., assignor of one-half to T. Orgill, New York, N. Y., and						
Memphis, Tenn. Nut-locking bolt	514,570	Feb. 13	988	250	66	1057
Standard Adding Machine Company. (See Hopkins, William W., assignor.)						
Standard Electric Signal Company. (See Hibbard, William W., assignor.)						
Standard Fire Proofing Company. (See Golding, John F., assignor.)						
Standard Fireless Company. (See McMahon, Patrick J., assignor.)						
Standard Furniture Company. (See Foley, Michael, assignor.)						
Standard Paint Company. (See Griscom, William, Jr., assignor.)						
Standard Pearl Button Company. (See Carlyle, George, assignor.)						
Standard Portland Cement Company. (See Hurry, Edward H., assignor.)						
Standard Rivet Company. (See Bean, Frank, assignor.)						
Standard Seamless Wire Company. (See Smith, Henry T., assignor.)						
Standard Sewing Machine Company. (See Mack, William A., assignor.)						
Standard Sewing Machine Company. (See Whitney, Ruel W., assignor.)						
Standard Store Service Company. (See Gipe, Emanuel C., assignor.)						
Standard Underground Cable Company. (See Loe, Thomas C., assignor.)						
Standard Valve Company. (See Teal, Benjamin F., assignor.)						
Standeford, James S. (See Moon, Zenas E., assignor.)						
Standen, Jabez A., Lorain, Ohio. Parlor-game table	512,337	Jan. 9	1003	245	66	201
Standish Clay Manufacturing Company. (See McElfresh, Francis E., assignor.)						
Standish, Philander H., St. Mary's, Ohio. Machine for making chains	528,819	Nov. 6	528	{ 128 129 }	{ 69 }	741
Standish, Syranus, Gridley, Cal. Fruit-pitting machine	529,817	Nov. 27	2304	{ 548 549 }	{ 69 }	1115
Stanford, Arthur L., Evanston, Ill. Lifting-jack	513,155	Jan. 23	2379	574	66	547
Stanford, Arthur L., Evanston, Ill. Railway-frog	522,240	July 3	112	26	68	21
Stanford, Arthur L., Evanston, Ill. Lifting-jack	527,818	Oct. 23	1876	450	69	393
Stanford, Lewis A., Bradford, Pa. Ditching-machine	517,774	Apr. 3	604	{ 148 149 }	{ 67 }	117
Stanhope, John B., Philadelphia, Pa. Barrel-trussing machine	514,738	Feb. 13	1281	319	66	1112
Stanhope, John B. and W. H., Philadelphia, Pa. Barrel-heater	523,552	July 24	2391	599	68	493
Stanhope, Redington, Lincoln, Nebr. Rein-supporter	530,134	Dec. 4	98	26	69	1233
Stanhope, William H. (See Stanhope, John B. and W. H.)						
Staniford, Frank C., Gilroy, assignor of two-thirds to D. C. Riddell, Santa Cruz county,						
and J. C. Zuck, Santa Clara county, Cal. Fruit-pitting machine	522,627	July 10	782	197	68	167
Stanley, Frank F. (See Baynard, William H., Jr., assignor.)						
Stanley, James, Newark, N. J. Hame-link	520,457	May 29	2646	639	67	1089
Stanley, John E., assignor to G. H. Huttonlocher and J. S. Gilcrest, Des Moines, Iowa.						
Incubator	530,907	Dec. 11	1439	342	69	1492
Stanley Laboratory Company. (See Chesney, Cummings C., assignor.)						
Stanley Laboratory Company. (See Kelly, John F., assignor.)						
Stanley Laboratory Company. (See Kelly and Chesney, assignors.)						
Stanley Laboratory Company. (See Stanley, William, Jr., assignor.)						
Stanley Laboratory Company. (See Stanley and Kelly, assignors.) (Reissue.)						
Stanley Laboratory Company. (See Stanley, Kelly, and Chesney, assignors.)						
Stanley, Lucius T., Brooklyn, N. Y., assignor to H. B. Cutler, Philadelphia, Pa. Auto-						
matic electromagnetic cut-out	521,423	June 12	1187	282	67	1428
Stanley, Lucius T., Brooklyn, N. Y., and A. E. Braddell, assignors to H. B. Cutler, Phila-						
delphia, Pa. Automatic electromagnetic cut-out	528,185	Oct. 30	2545	617	69	530
Stanley Manufacturing Company. (See Monilton, James N., assignor.)						
Stanley, Nelson D., Essex Junction, Vt. Nut-lock	530,290	Dec. 4	381	94	69	1284
Stanley, Oramel C., assignor to J. Gobber, New York, N. Y. Pipe-wrench	516,661	Mar. 20	1546	368	66	1773
Stanley, Oramel C., New York, N. Y., assignor of two-thirds to W. C. Boone, Boonton,						
N. J., and D. C. Watters, Ottawa, Canada. Wrench	517,074	Mar. 27	2255	533	66	1922
Stanley, Reginald, Nuneaton, England. Tunneling-machine	524,149	Aug. 7	314	74	68	719
Stanley, William, Jr., assignor to Stanley Laboratory Company, Pittsfield, Mass. Alter-						
nating-current motor	520,620	May 29	2913	704	67	1138
Stanley, William, Jr., assignor to Stanley Laboratory Company, Pittsfield, Mass. Alter-						
nating-current motor	522,356	July 3	307	79	68	61

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Stanley, William, Jr., assignor to Stanley Laboratory Company, Pittsfield, Mass. Alternate-current motor	524,534	Aug. 14	978	240	68	857
Stanley, William, Jr., and J. F. Kelly, assignors to Stanley Laboratory Company, Pittsfield, Mass. System of electrical distribution. (Reissue.)	11,400	Jan. 30	3714	914	66	836
Stanley, William, Jr., J. F. Kelly, and C. C. Chesney, assignors to Stanley Laboratory Company, Pittsfield, Mass. Alternate-current motor	515,977	Mar. 6	393	92	66	1526
Stanley Works. (See Corscaden, Thomas, assignor.)						
Stanley Works. (See Gridley, Henry H., assignor.)						
Stanley Works. (See Hart, Charles E., assignor.)						
Stannard, John E., Springfield, Mass. Valve	517,199	Mar. 27	2466	580	66	1963
Stanton, Daniel P., Warwick, R. I. Pipe-wrench	523,691	July 31	2637	654	68	554
Stanton, Jere E., Boston, Mass. Electric-motor controlling device	513,213	Jan. 23	2464	595	66	563
Stanton, Jere E., Boston, Mass. Adjustable dental-engine bracket-arm	513,214	Jan. 23	2466	595 596	66	563
Stanwood, Edward, Brookline, Mass. Boot or shoe polishing device	528,349	Oct. 30	2827	683	69	579
Staple Fastening Machine Company. (See Hamm, William S., assignor.)						
Staples, John A., Newburg, N. Y. Spring-support for upholstery	516,030	Mar. 6	485	112	66	1542
Staples, John A., Newburg, N. Y. Spring-support for chair-seats	531,477	Dec. 25	2478	590	69	1714
Staples, John H., Boston, assignor of one-half to E. Piccott, Somerville, Mass. Turbine water-wheel	518,795	Apr. 24	2355	583 584	67	474
Stapleton, James, assignor of one-half to L. Clements, Ray's Mills, Ga. Roller cotton-gin	529,425	Nov. 20	1629	387	69	983
Stapleton, James, and R. J. Ray, assignors of three-tenths to B. F. Clements, Ray's Mills, Ga. Roller cotton-gin	514,629	Feb. 13	1094	272 273	66	1077
Stapley, Richard, <i>et al.</i> (See Shelley, Rose M., assignor.)						
Stapp, Frederick, Denver, Colo. Minnow-holder for fish-hooks	531,140	Dec. 18	1860	441	69	1584
Star Coupler Company. (See Friede, Samuel M., assignor.)						
Star Watch Company. (See Aronson, Saul, assignor.)						
Starck, Herman. (See Kuechler and Starck.)						
Stark, Andrew, Chicago, Ill. Harvester-elevator	521,484	June 19	1320	308	67	1469
Stark, Andrew, Chicago, Ill. Harvester-elevator	526,166	Sept. 18	1465	342	68	1443
Stark, Andrew, Chicago, Ill., assignor of one-half to Warder, Bushnell & Glessner Company, Springfield, Ohio. Grain-binder	520,458	May 29	2646	639 640	67	1059
Stark, George, <i>et al.</i> (See Schwein, Herman, assignor.)						
Stark, James M., assignor of one-half to J. McLaren and C. D. Brown, Detroit, Mich. Car-coupling	522,954	July 10	1337	332	68	269
Stark, Louis C., Appleton, Wis. Lawn-mower	523,692	July 31	2638	654	68	554
Starke, August L., New York, N. Y. Rail-tie plate and brace	520,276	May 22	2350	570	67	1017
Starke, Eric A., <i>et al.</i> (See Buechert, George J., assignor.)						
Starke, Eric A., assignor to United States Smokeless Powder Company, San Francisco, Cal. Smokeless powder	513,737	Jan. 30	3360	.....	66	766
Starke, Eric A., assignor to United States Smokeless Powder Company, San Francisco, Cal. Making ammonium bichromate	527,563	Oct. 16	1456	.....	69	299
Starkey, A. W., <i>et al.</i> (See Bright, William H., assignor.)						
Starkey, John, Minerva, Ohio. Tunnel for drying brick	513,738	Jan. 30	3361	829	66	766
Starks, Nils O. (See Johnson and Starks.)						
Starks, Nils O., Madison, Wis. Game apparatus	514,688	Feb. 13	1189	296	66	1095
Starks, Nils O., Madison, Wis. Harrow	521,392	June 12	1134	267 268	67	1418
Starks, Nils O., assignor to Fuller & Johnson Manufacturing Company, Madison, Wis. Wheel	527,735	Oct. 16	1739	420	69	351
Starks, Nils O., and J. A. Johnson, assignors to Fuller & Johnson Manufacturing Company, Madison, Wis. Transplanter	511,814	Jan. 2	101	25, 26	66	22
Streetweather, Gleason F., assignor to Paige Iron Works, Chicago, Ill. Guard-rail for street-railways	523,182	July 17	1750	439	68	361
Starr, Ferdinand W., Springfield, Ohio. Fastening device	525,748	Sept. 11	741	171 172	68	1299
Starr, Ferdinand W., Springfield, Ohio. Corrugated fastener	528,569	Nov. 6	83	21	69	661
Starr, John. (See Goodwin, Henry L., assignor.)						
Starr, Raymond T., Bloomington, Ill. Bicycle	514,572	Feb. 13	994	250	66	1058
Statna, Andrew T., Bigelow, Kans. Lister, cultivator, and planter	512,406	Jan. 9	1125	272	66	224
Staub, Henry, assignor of one-fourth to G. Peyer, Allegheny, Pa. Rotary steam-engine	530,908	Dec. 11	1441	342 343	69	1493
Stauber, Emanuel, Hamburg, Germany. Machine for forming peat briquets	531,478	Dec. 25	2479	590	69	1714
Stauder, Joseph, Berlin, Germany. Manufacture of brushes	527,251	Oct. 9	938	227	69	190
Standt, John R., Indianapolis, Ind. Flour-bolt	511,815	Jan. 2	102	26	66	23
Stauffer, John, Dayton, Ohio. Pattern for casting frames for fence-ratchets	516,031	Mar. 6	486	112	66	1542
Stayman, David F., Muncy, Pa. Buckle	524,618	Aug. 14	1123	276	68	885
Stead, Arthur, Oldham, England. Rim and tire for wheels	512,917	Jan. 16	2014	478 233 234 235 236	66	408
Stearns, Albert, assignor of one-half to J. A. and E. D. Church, Brooklyn, N. Y. Machinery for securing wrappers or labels around boxes, cakes, &c.	522,723	July 10	936	233 234 235 236	68	195
Stearns, Albion E. (See Stearns, Frank H. and A. E.)						
Stearns & Co., E. C. (See Seely, Obadiah, assignor.)						
Stearns & Co., E. C. (See Stearns, Edward C., assignor.)						
Stearns, De Witte, Chicago, Ill. Gas-generator	518,202	Apr. 10	1324	330 331	67	259
Stearns, Edward C., assignor to E. C. Stearns & Co., Syracuse, N. Y. Velocipede	526,545	Sept. 25	2132	511	68	1581
Stearns, Frank H. and A. E., Eden, Vt. Machine for roasting bark	515,537	Feb. 27	2582	639	66	1382
Stearns, Otis W., Johnson, Vt. Road worker and scraper	518,473	Apr. 17	1805	447	67	362
Stearns, Otis W., Johnson, Vt. Cover for butter-packages	525,032	Aug. 28	1838	449	68	1044
Stearns, Thomas B. (See Roger, John, assignor.)						
Stearns, William E., Berlin, Conn., assignor of one-third to D. L. Bradt, J. P. Coglin, and F. O. Plummer, Worcester, Mass. Closed conduit for electric railways	528,494	Oct. 30	3084	748	69	626
Stebbins, Alfred B., Canisteo, N. Y. Variable speed and power gearing for velocipedes	523,245	July 17	1861	468	68	380
Stebbins, Alfred B., Canisteo, N. Y. Variable-speed gearing for bicycles, &c.	523,246	July 17	1863	468	68	381
Stebbins, Charles A., Lawrence, Mich. Watchmaker's bench-tool	514,971	Feb. 20	1648	412	66	1197
Stebbins, Henry W., West Carrollton, assignor of one-half to J. H. Friend, Dayton, Ohio. Digester	528,399	Oct. 30	2917	706	69	595
Stebbins, Henry W., West Carrollton, assignor of one-half to J. H. Friend, Dayton, Ohio. Digester	528,400	Oct. 30	2918	706	69	596
Stebbins, Theodore. (See Hopkins and Stebbins.)						
Stebbins, Theodore, Boston, Mass. Testing-indicator for electric-railway cars	526,644	Sept. 25	2290	549	68	1611
Stecher Lithographic Company. (See Clark, Dwight S., assignor.)						
Stock, Ernst F., Chicago, Ill. Calculating-rule	515,978	Mar. 6	394	92	66	1526

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Steck, Ernst F., Chicago, Ill. Water-tower.	527,460	Oct. 16	1295	317	69	270
Steck, Ernst F., Chicago, Ill. Calculating-rule. (Reissue)	11,450	Oct. 23	2463	596	69	499
Stecke, Albert, Osnabrück, Germany, assignor to W. C. Eymann, Anaheim, Cal. Coal and gas burning stove or range.	531,602	Dec. 25	2687	644	69	1756
Stecker, Joseph, Lexington, Ky. Shirt	530,974	Dec. 18	1565	371	69	1529
Stedman, Nathan, assignor to Stedman's Foundry and Machine Works, Aurora, Ind. Disintegrator.	518,010	Apr. 10	994	248	67	200
Stedman, Nathan, assignor to Stedman's Foundry and Machine Works, Aurora, Ind. Disintegrator.	518,011	Apr. 10	995	248 249	67	200
Stedman, Rufus T., Winston, N. C. Tobacco-cutter	518,867	Apr. 24	2165	611	67	494
Stedman, William F., Boston, Mass. Railway-switch	515,135	Feb. 20	1900	477	66	1242
Stedman's Foundry and Machine Works. (See Stedman, Nathan, assignor.)						
Steed, Thaddeus F., Merkel, Tex. Track-raiser	527,514	Oct. 16	1379	336	69	285
Steedman, George F., and J. H. Brookmare, Jr., St. Louis, Mo. Car-brake	528,116	Oct. 23	2426	587 588	69	493
Steel Cable Engineering Company. (See Berger, Ambrose J. B., assignor.)						
Steel, John, and J. Busha, Pittsburg, Pa. Spraying-nozzle	523,294	July 17	1938	487	68	395
Steel Motor Company. (See Valley, Gustaf, assignor.)						
Steel, Robert G. (See Peck, Luke R., assignor.)						
Steel, W. Irving. (See Algeo, Charles C., assignor.)						
Steele, Herbert B., Medford, assignor to R. D. Evans, J. S. Lockwood, Boston, M. E. Knight, South Framingham, and D. C. Marr, Hyde Park, Mass. Machine for cutting boot or shoe soles.	524,286	Aug. 7	529	124 125 126	68	757
Steele, John C. (See Terry, Robert E., assignor.)						
Steele, Will F., et al. (See Mills, Jonathan, assignor.)						
Steelman, John C., Linwood, N. J. Cleat	521,056	June 5	542	127	67	1295
Steelman, Joseph C., Philadelphia, Pa. Device for affixing postage or other stamps to envelopes, &c.	521,625	June 19	1562	364 365	67	1511
Steen, James H., assignor of one-half to T. S. Culp, Canton, Ohio. Luggage-carrier.	515,622	Feb. 27	2712	675	66	1408
Steen, Nevada, Corpus Christi, Tex. Gage for bias-cutters	519,509	May 8	1025	248	67	745
Steele & Son, J. W. (See Hetherington, Martin, assignor.)						
Steeves, Chipman A. (See Irving, Whitmore, assignor.)						
Steffin, Albert, New Bedford, Mass. Decorating glass	515,538	Feb. 27	2584	639	66	1382
Steffin, Albert, New Bedford, Mass. Article of glassware	515,539	Feb. 27	2585	639	66	1383
Steffin, Albert, assignor to Mount Washington Glass Company, New Bedford, Mass. Decorated glass and decorating same	520,125	May 22	2069		67	966
Steff, Alexander H., Brookville, Pa. Penholder	526,416	Sept. 25	1934	461	68	1545
Stegemann, August, Berlin, Germany. Magazine plate-holder	519,276	May 1	602	146 147	67	654
Stehle, Martin, Perry, Mo. Stovepipe-joint	527,380	Oct. 9	1155	233	69	230
Steigerwald, Lewis. (See Ginn, William E., assignor.)						
Steimer, Leonard W., and G. T. Moore, Westfield, Mass. Whip	511,816	Jan. 2	103	26	66	23
Stein, Edward F., et al. (See Brombacher, Emil, assignor.)						
Stein, Gustav W. A., Wetzlar, Germany. Manufacturing hydraulic cement	530,247	Dec. 4	302		69	1270
Stein, Gustave. (See Bartelt, Golle, and Stein.)						
Stein, Leo, and N. Rappleyea, Rochester, assignors to National Casket Company, New York, N. Y. Burial-casket	518,553	Apr. 17	1930	477	67	384
Steinbach, George P., Baltimore, Md. Parasol for children's carriages	524,535	Aug. 14	980	240 241	68	857
Steinbart, Alfred. (See Uehling, Edward A., assignor.)						
Steinbart, Alfred. (See Uehling and Steinbart.)						
Steinbart, Alfred. (See Uehling and Steinbart.) Reissue.						
Steinbrenner, Andrew G., assignor to E. S. Barreiras, St. Louis, Mo. Draw-bar for railway-cars	528,117	Oct. 23	2430	588	69	493
Steinel, Bruno. (See Pedersen, Johannes T., assignor.)						
Steiner, Alfred, New York, N. Y. Receipt-protector	524,227	Aug. 7	439	104	68	742
Steiner, Alfred, New York, N. Y. Buckle	530,363	Dec. 4	510	126	69	1303
Steiner, Josef, Brooklyn, N. Y. Screw-making machine	511,817	Jan. 2	104	27	66	23
Steiner, Josef, Brooklyn, N. Y., assignor to Western Electric Company, Chicago, Ill. Window-spring for burglar-alarms	522,277	July 3	184	50	68	38
Steiner, Louis. (See Pells and Steiner.)						
Steiner, William R., Frederick, Md. Corn-harvester	526,755	Oct. 2	145	34 35 36	69	28
Steinhoff, Henry C., West Hoboken, N. J. Heating-boiler	528,401	Oct. 30	2920	706 707	69	596
Steininger, Jacob A., Creston, Iowa. Brake-cylinder pressure graduating and maintaining triple valve	517,895	Apr. 10	781	195	67	165
Steinmann, Frank, St. Louis, Mo. Machine for making hooks for stretching curtains	517,775	Apr. 3	606	149 150	67	117
Steinmann, Moritz. (See Leistner, Edward von, assignor.)						
Steinmetz, Charles P., Lynn, assignor to General Electric Company, Boston, Mass. Method of and apparatus for preventing phase-displacement in alternating circuits	513,370	Jan. 23	2719	660	66	612
Steitz, John L., Chicago, Ill. Drain	514,784	Feb. 13	1352	337 338	66	1126
Steitz, John L., Chicago, Ill. Air-pump for forcing beer	516,410	Mar. 13	1109	264	66	1675
Stelwagon's Son, Jos. (See Casey, John, assignor.)						
Stemann, Gottfried F. W. J., et al. (See Bauer, Friedrich R., assignor.)						
Stempel, Omar A., St. Louis, Mo. Fire-extinguisher	515,846	Mar. 6	187	44	66	1488
Stendel, Ferdinand C., Chicago, Ill. Railway-crossing track-cleaner	520,192	May 22	2207	537	67	990
Stenersen, Erik and R., and H. T. Pringle; said R. Stenersen assignor to said Erik Stenersen; said Erik Stenersen and said Pringle assignors of one-third to T. G. Pringle, Brooklyn, N. Y. Bicycle-wheel	512,453	Jan. 9	1218	295	66	242
Stenersen, Rudolph. (See Stenersen and Pringle.)						
Stenson, Ole. (See Kaime and Stenson.)						
Stephan, Friedrich C., Crimmitschau, Germany. Apparatus for measuring textile fabrics	519,277	May 1	605	147	67	654
Stephani, John, Manitowoc, Wis. Mower	524,491	Aug. 14	906	223	68	844
Stephen, Andrew, Rushville, Nehr. Manufacture of brooms	513,837	Jan. 30	3507	863	66	795
Stephen, William A., St. Johnsbury, Vt. Garment-supporter	524,872	Aug. 21	1545	378	68	973
Stephens, Edward A., Jonesville, Mich. Check-hook	516,456	Mar. 13	1191	285	66	1690
Stephens, George H., London, England. Boot-tree	519,877	May 15	1655	402	67	874
Stephens, Morgan, and S. O. Koons, Gilson, Ill. Wire and picket-fence building and repairing device	516,237	Mar. 13	824	193	66	1622

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Stephenson, F. S., <i>et al.</i> (See Dougherty, George C., assignor.)						
Stephenson, Frederick G., Plainville, Conn. Pin-gnard	531,397	Dec. 25	2329	555	69	1687
Stephenson, Milton E., Boston, Mass. Combined letter-file and press-copy book	523,754	July 31	2754	{ 683 684 }	68	575
Sterling Company. (See Pell, Harry S., assignor.)						
Sterling Light Company. (See Crawford and Bihm, assignors.)						
Sterling, Robert, Hartington, Nebr. Mechanical movement	521,393	June 12	1135	268	67	1418
Stern, Emile, Paris, France. Closing receivers charged with compressed or liquefied gases.	538,820	Nov. 6	543	130	69	745
Stern, Isaac <i>et al.</i> (See Doming, Edward, assignor.)						
Stern, Julius, <i>et al.</i> (See Hirschfeld, Leo, assignor.)						
Sternberg, George E. (See Schmitt, Louis H., assignor.)						
Sternberg, Lothar, Jersey City, N. J. Apparatus for obtaining ammonia	522,357	July 3	310	80	68	61
Sternberg, Lothar, Jersey City, N. J. Making ammonia	523,819	July 31	2864	711	68	596
Sterritt, William B., Pittsburg, Pa. Molding-machine	524,492	Aug. 14	908	224	68	845
Stetson, Isaac C., Damariscotta, Me. Fruit-picker or pruner	516,556	Mar. 13	1362	324	66	1722
Steur, John J., Albany, N. Y. Portable fire-escape	518,633	Apr. 24	2067	514	67	422
Stevens, Abram W., and L. D. Swart, assignors to A. W. Stevens & Son, Auburn, N. Y.				{ 226 227 }	67	731
Transplanting-machine	519,460	May 8	938			
Stevens, Alfred L. (See Euchenhofer, Weinman, and Stevens.)						
Stevens, Alfred L., assignor of two-thirds to J. M. Phelps and C. W. Uthbrok, Dayton, Ohio. Labeling-machine	517,896	Apr. 10	783	{ 195 196 }	67	165
Stevens, Alfred L., assignor of two-thirds to J. M. Phelps and C. W. Uthbrok, Dayton, Ohio. Labeling-machine	517,897	Apr. 10	785	{ 196 197 }	67	165
Stevens, Alfred L., assignor of two-thirds to J. M. Phelps and C. W. Uthbrok, Dayton, Ohio. Can-labeling machine	517,898	Apr. 10	786	{ 197 198 }	67	166
Stevens, Alonzo C. (See Jewell and Stevens.)						
Stevens, C. Amory. (See Collins, Caleb G., assignor.)						
Stevens Cask and Barrel Company. (See Stevens and Baker, assignors.)						
Stevens, Charles D. (See Gallagher, Thomas M., assignor.)						
Stevens, Cornelius M., Pittston, Pa. Thill-coupling	524,873	Aug. 21	1546	378	68	973
Stevens, Harry S. (See Kay, William G., assignor.)						
Stevens, Horace H. (See Emerson, James, assignor.)						
Stevens, James, and A. Case, Perry, Iowa. Fence-wire stretching device	514,288	Feb. 6	538	132	66	955
Stevens, John, Melbourne, Victoria. Fireproof window-shutter	514,515	Feb. 13	901	229	66	1041
Stevens, John C., assignor, by mesne assignments, to F. C. Rockwell, Hartford, Conn.						
Clasp	528,699	Nov. 6	317	77	69	704
Stevens, John F., assignor of one-half to J. P. Ullrich, Ottumwa, Iowa. Car-brake	511,973	Jan. 2	413	96	66	79
Stevens, John H., Jr., Cambridge, Mass. Water-closet	519,878	May 15	1656	403	67	875
Stevens, John H., Jr., Cambridge, Mass. Detachable sprinkler for baths	519,879	May 15	1658	403	67	875
Stevens, John H., Jr., Cambridge, Mass. Water-closet	524,515	Aug. 14	951	234	68	852
Stevens, John H., Jr., Cambridge, Mass. Seat attachment for water-closets	524,516	Aug. 14	953	234	68	852
Stevens, John H., Jr., Cambridge, Mass. Bearing for water-closet-seat attachments	525,396	Sept. 4	136	34	68	1175
Stevens, John H., Jr., Cambridge, Mass. Ball-cock	525,870	Sept. 11	977	219	68	1341
Stevens, John H., Jr., Cambridge, Mass. Set washbasin and valve-operating mechanism therefor	526,508	Sept. 25	2076	494	68	1571
Stevens, John H., assignor, by mesne assignments, to Celluloid Company, Newark, N. J.						
Manufacture of solid compounds of pyroxylin	517,987	Apr. 10	949	-----	67	193
Stevens, L. H. (See Krutch, Willis W., assignor.)						
Stevens, Marshall G., Merchantville, N. J. Lantern	521,829	June 26	1912	458	67	1595
Stevens, S. George, <i>et al.</i> (See Lawlor, Sim C., assignor.)						
Stevens & Son, A. W. (See Stevens and Swart, assignors.)						
Stevens, Sylvanus, Holgate, Ohio. Nut-lock	529,633	Nov. 20	1986	474	69	1047
Stevens, Thomas, Vigo, Ohio. Rotary bolt	530,364	Dec. 4	511	126	69	1308
Stevens, Thomas G., Swanscombe, and J. Baker, Greenhithe, assignors to Stevens Cask and Barrel Company, Limited, London, England. Cask	518,537	Apr. 17	1908	472	67	380
Stevens, Thomas G., Swanscombe, and J. Baker, Greenhithe, assignors to Stevens Cask and Barrel Company, Limited, London, England. Machinery for manufacturing casks	522,537	July 3	613	156	68	120
Stevens, Truman E., <i>et al.</i> (See Register, Thomas L., assignor.)						
Stevens, Walter B. (See Almont, Frank C., assignor.)						
Stevens, Wesley F., San Francisco, Cal. Boom for holding and towing logs or timbers	525,122	Aug. 28	2004	490	68	1072
Stevens, Willard B., New York, N. Y. Bottle-stopper	519,510	May 8	1026	248	67	746
Stevens, William P., Muncie, Ind. Combined label and price-card	529,760	Nov. 27	2199	524	69	1095
Stevenson, Archy A., Burnham, Pa. Making wrought-metal wheels	531,072	Dec. 18	1728	411	69	1560
Stevenson, David, Cold Spring, N. Y. Metal-boring machine	521,922	June 26	2075	{ 498 499 }	67	1627
Stevenson, David B., Petrolia, Pa. Deep-well pump	520,209	Nov. 13	1234	297	69	889
Stevenson, David J., assignor to J. M. Keith, Bakersfield, Cal. Car-coupling	516,457	Mar. 13	1192	286	66	1691
Stevenson, Edwin D., Wadsworth, Ohio. Vehicle-top	513,739	Jan. 30	3362	829	66	766
Stevenson, Homer R., Salem, Ill. Corn-harvester	517,899	Apr. 10	789	{ 198 199 }	67	166
Stevenson, James A. (See Crisp and Stevenson.)						
Stevenson, John, Jr., and C. J. Johnson, New Castle, Pa. Metal-coiling apparatus	520,942	June 5	353	86	67	1261
Stevenson, John G. (See Stevenson, Randie R., assignor.)						
Stevenson, John L., Chicago, Ill. Corn broom	520,546	May 29	2796	675	67	1115
Stevenson, John W. (See Thomas, Henry O., assignor.)						
Stevenson, Randle R., assignor of one-half to J. G. Stevenson, Summerfield, La. Washing-machine	515,944	Mar. 6	331	79	66	1515
Stevenson, William H. (See Hoggson, Samuel H., assignor.)						
Stever, Charles, San José, Cal. Time-indicator attachment for telephones	512,454	Jan. 9	1220	295	66	242
Steward, John A., East Clarendon, Vt. Pail	518,707	Apr. 24	2202	550	67	447
Steward, John A., Clarendon, Vt. Mechanism for seaming sheet-metal cans	519,594	May 8	1187	{ 286 287 }	67	775
Steward, John F., Chicago, Ill. Grain-conveying device for self-binding harvesters	512,067	Jan. 2	565	134	66	108
Steward, John F., Lake Odessa, Mich. Knotter for harvesting-machines	519,395	May 8	842	204	67	713
Steward & McDermott. (See McDermott, Charles, assignor.)						
Stewart, Alexander T. (See Bell and Stewart.)						
Stewart, Benjamin F., Canton, Ohio. Knotter for grain-binders	512,762	Jan. 16	1747	{ 414 415 }	66	357
Stewart, Benjamin F., Canton, Ohio. Grain-binder	518,747	Apr. 24	2281	{ 566 567 }	67	460
Stewart, Benjamin F., West Pullman, Ill. Harvester	525,817	Sept. 11	865	{ 198 199 }	68	1321
Stewart, Charles B. and T. D., Walla Walla, Wash. Car-coupling	512,068	Jan. 2	567	134	66	108
Stewart, Charles C., Philadelphia, Pa. Carpet-lining	522,570	Nov. 6	84	21	69	661

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Stewart, Cornelius B., and T. L. Wedge, Wilkesburg, Pa. Railway-frog	514,630	Feb. 13	1096	273	66	1077
Stewart, David, <i>et al.</i> (See Assheton, William, assignor.)						
Stewart, David, <i>et al.</i> (See Carroll, Charles J., assignor.)						
Stewart, David B., <i>et al.</i> (See Lampp, Jesse T., assignor.)						
Stewart, David W. (See Long, Nathan H., assignor.)						
Stewart, Frances V., administratrix. (See Stewart, George W.)						
Stewart, Fred W., assignor of one-half to W. C. Bergundthal, Bellaire, Ohio. Manufacture of lantern-globes	523,133	July 17	1664	417	68	346
Stewart, George A., Canton, Mass. Floor-board set	523,647	July 24	2543	638	68	522
Stewart, George E. and R., Philo, Ill. Wagon end-gate	525,633	Sept. 4	516	124	68	1247
Stewart, George W., deceased; F. V. Stewart, administratrix, Atlanta, Ga. Marine signal	515,624	Feb. 27	2716	676	66	1409
Stewart, Gilbert B. (See Eiper, Jay A., assignor.)						
Stewart Hartshorn Company. (See Hartshorn, Edmund F., assignor.)						
Stewart Hartshorn Company. (See Hartshorn, Stewart, assignor.)						
Stewart, James, Jr., Yenkers, N. Y. Sewing sweat-bands in hats	515,262	Feb. 29	2113	524	66	1282
Stewart, John. (See Davids, Charles H., assignor.)						
Stewart, John, Jr., Litchfield, Nebr. Corn cutter and dropper	528,041	Oct. 23	2297	553	69	469
Stewart, Joseph B., Haverstraw, N. Y. Electric-light cut-off	513,250	Jan. 23	2538	611	66	578
Stewart, Joseph B., Haverstraw, N. Y. Air-brake apparatus	517,250	Mar. 27	2545	597	66	1978
Stewart Manufacturing Company. (See Stewart, Samuel, assignor.)						
Stewart, Marchant L., Mapleton, Me. Snow-plow	525,165	Aug. 28	2084	508	68	1085
Stewart, Monroe, San Bernardino, Cal. Gold-separator	512,918	Jan. 16	2015	478	66	408
Stewart, Murray R., <i>et al.</i> (See Murdock, Harvey W., assignor.)						
Stewart, Ralph. (See Stewart, George E. and R.)						
Stewart, Robert A., New Rochelle, assignor of one-half to G. T. Holihan, New York, N. Y. Type-holder	526,822	Oct. 2	250	61	69	47
Stewart, Samuel, assignor to Stewart Manufacturing Company, Newark, N. J. Gas water-heater	519,357	May 8	776	189 190	67	701
Stewart, Samuel W., <i>et al.</i> (See Lampp, Jesse T., assignor.)						
Stewart, Thales D. (See Stewart, Charles B. and T. D.)						
Stewart, Thomas R. (See Deats and Stewart.)						
Stewart, Walter H., Franklin, N. H. Automatic stitch-regulating mechanism for knitting-machines	529,508	Nov. 20	1787	426	69	1010
Stewart, Walter H., Franklin, N. H. Automatic circular-knitting machine	529,509	Nov. 20	1790	426 427	69	1010
Stewart, William C., Bellaire, Ohio. Enameling	529,670	Nov. 20	2049		69	1059
Stewart, William H., assignor of one-half to C. S. Smith, Kansas City, Kans. Wind-engine	519,977	May 15	1814	444 445	67	904
Stickie, Cole, Salem, N. Y. Purifying feed-water for steam-boilers	526,330	Sept. 18	1750	415	68	1498
Stickney, Allison M., Medford, assignor to Wellman Sole Cutting Machine Company, Boston, Mass. Machine for cutting soles or other forms	529,883	Nov. 27	2406	576 577	69	1135
Stickney, Charles W., Ketchum, Idaho. Process of and apparatus for roasting ores	512,235	Jan. 2	835	202 203	66	158
Stickney, Charles W., Butte, Mont. Converter	517,939	Apr. 10	852	215	67	178
Stickney, Henry R. (See Baxter and Stickney.)						
Stickney, Henry R., Portland, Me. Can-filling machine	515,062	Feb. 20	1785	450 451	66	1220
Stickney, Henry R., Portland, Me. Apparatus for cooking corn, &c., in cans	531,479	Dec. 25	2481	591	69	1715
Stickney, Henry R., assignor of one-half to J. E. Burnham, Portland, Me. Can-filling machine	523,553	July 24	2392	599	68	493
Stickney, Henry R., assignor of one-half to J. E. Burnham, Portland, Me. Can-feeding machine	523,554	July 24	2393	600	68	493
Stidham, James S., Floyd, Tex. Ice-cream freezer	516,947	Mar. 20	2017	477	66	1861
Stiebel, Henry G., Jr., St. Louis, Mo. Busk-stay for corsets	524,874	Aug. 21	1546	378	68	973
Stiefel, August W., Baltimore, Md. Safety car-fender	518,796	Apr. 24	2356	584	67	474
Stiefelhagen, William, Buffalo, N. Y. Tray for displaying chains	520,943	June 5	354	86	67	1262
Stifel, Edward W., Wheeling, W. Va. Pin for attaching flowers to dresses	518,868	Apr. 24	2463	611	67	494
Stifel, Herman C., assignor to Stifel-O'Neil Home Comfort Co., St. Louis, Mo. Water-closet	515,898	Mar. 6	238	56	66	1498
Stifel, Herman C., assignor to Stifel-O'Neil Home Comfort Co., St. Louis, Mo. Water-closet	516,128	Mar. 6	632	148	66	1571
Stifel, Herman C., assignor to Stifel-O'Neil Home Comfort Co., St. Louis, Mo. Water-closet	516,129	Mar. 6	633	148	66	1571
Stifel, Herman C., assignor to Stifel-O'Neil Home Comfort Co., St. Louis, Mo. Water-closet	516,130	Mar. 6	634	148	66	1571
Stifel, Herman C., assignor to Stifel-O'Neil Home Comfort Co., St. Louis, Mo. Water-closet	516,131	Mar. 6	635	148 149	66	1571
Stifel, Herman C., assignor to Stifel-O'Neil Home Comfort Co., St. Louis, Mo. Water-closet	516,132	Mar. 6	636	149	66	1572
Stifel, Herman C., assignor to Stifel-O'Neil Home Comfort Co., St. Louis, Mo. Bowl for water-closets	516,133	Mar. 6	637	149	66	1572
Stifel-O'Neil Home Comfort Co. (See Stifel, Herman C., assignor.)						
Stiggleman, James H., Wabash, Ind. Furniture-hinge	526,270	Sept. 18	1642	387	68	1476
Stikeman, George, Brooklyn, N. Y. Book-support	527,897	Oct. 23	2027	487	69	430
Stiker, Flavins P., assignor of one-half to A. Van Denvover, Buffalo, N. Y. Support for rail-joints	518,634	Apr. 24	2069	514 515	67	423
Stiles, Doras A., Durham, Conn. Pocket-knife	526,167	Sept. 18	1468	343	68	1443
Stiles, Edmund P., Anstin, Tex. Dental or surgical chair	525,166	Aug. 28	2087	508 509 510	68	1086
Stiles, Fred P., Sparta, Wis. Ribbon-reversing mechanism for type-writing machines	521,091	June 5	607	143	67	1306
Stiles, Fred P., Sparta, Wis. Automatic ribbon-reverse	530,365	Dec. 4	512	127	69	1308
Stiles, Oscar, Omaha, Nebr. Insulating compound	528,744	Nov. 6	34		69	716
Still, Edward L., New York, N. Y. Combination furniture	519,930	May 15	1733	425	67	889
Still, Oliver H., assignor of one-half to W. R. Lamb, East Greenwich, R. I. Dress-protector	518,378	Apr. 17	1648	407	67	334
Still, William J., Toronto, Canada. Electric motor	517,669	Apr. 3	431	104 105	67	82
Still, William J., assignor of one-half to R. MacDonald, Toronto, Canada. Electric motor	517,668	Apr. 3	427	104	67	82
Stillman, George F., Syracuse, N. Y. Pneumatic tire	528,213	Oct. 30	2602	627	69	539
Stillman, Herbert L., Charlestown, R. I. Rail for railways	513,445	Jan. 23	2841	697	66	635
Stillman, William M., <i>et al.</i> , executors. (See Babcock, George H.)						
Stilwell, Edwin R., Dayton, Ohio. Lifting-jack	523,717	July 31	2691	667	68	563
Stilwell, Joseph R., <i>et al.</i> (See Stilwell, Rickason, assignor.)						
Stilwell, Rickason, assignor of one-half to J. R. Stilwell and G. Willard, New York, N. Y. Screw	516,134	Mar. 6	638	149	66	1572
Stimpson, Edwin B., Brooklyn, N. Y. Punching and pinking machine	515,927	Mar. 6	303	72	66	1510
Stimpson, Edwin B., Brooklyn, N. Y. Means for operating punches or presses	525,871	Sept. 11	978	219	68	1341

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Stimpson, Edwin B., Brooklyn, N. Y. Punching-machine	525,872	Sept. 11	979	219 220	68	1341
Stimson, Charles W., New York, N. Y. Buckle	514,516	Feb. 13	902	229	66	1041
Stimson, Charles W., New York, N. Y. Clasp for garment-supporters	521,830	June 26	1913	459	67	1505
Stine, Wilbur M., Athens, Ohio. Battery	512,567	Jan. 9	1391	336	66	275
Stineman, William H. H., Hicks's Mill, assignor of one-half to E. I. Clark, Baltimore, Md. Street-railway motor	524,961	Aug. 21	1687	414	68	998
Stiner, Clarence M., New York, N. Y. Coin-operated device	515,375	Feb. 27	2321	575	66	1333
Stinson, James C., Wolfe City, Tex. Music leaf turner	515,724	Feb. 27	2877	718	66	1440
Stirk, David P., Indianapolis, Ind. Gas-mixer	514,631	Feb. 13	1098	273	66	1078
Stirling Company. (See Schlieper, John E., assignor.)						
Stirn, Louis, assignor of two-thirds to J. Somborn, New York, N. Y. Socket for incandescent lamps	515,484	Feb. 27	2493	617	66	1365
Stirn, Louis, assignor of two-thirds to J. Somborn, New York, N. Y. Lamp-socket.	515,485	Feb. 27	2494	617	66	1365
Stitt, Levi G. (See McMurtry and Stitt.)						
Stivers, George E. W., New York, N. Y. Stable or harness-room cabinet	512,407	Jan. 9	1128	272 273	66	225
Stivers, George E. W., New York, N. Y. Shifting seat for vehicles	530,608	Dec. 11	952	234	69	1403
Stivers, Rufus M. (See Barker, Jeremiah J., assignor.)						
Stock, Harry A., Millersburg, Pa. Grain-weigher	513,659	Jan. 30	3233	794	66	742
Stoeke, Jacob, Jr., et al. (See Barker, Henry C., assignor.)						
Stoeke, Jacob, et al. (See Fernholtz, Emil, assignor.)						
Stock Quotation Telegraph Company. (See Wendelboe, Paul, assignor.)						
Stocker, Charles, Jr., Saginaw, Mich. Elevator-gate	517,496	Apr. 3	136	30	67	28
Stocker, Thomas, St. Louis, Mo. Pocket register and indicator	518,797	Apr. 24	2357	524	67	475
Stocker, William A., Bangor, Pa. Putting colored lines on school-slates	523,604	July 24	2469		68	507
Stockman, George H., Philadelphia, Pa. Shears	513,542	Jan. 30	3031	747	66	706
Stockwell, Emory, assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Automatic locking mechanism for permutation-locks	512,995	Jan. 16	2129	509	66	430
Stockwell, John W. (See Bowley, Joseph H., assignor.)						
Stoddard, E. T. (See Shepard, Frank P., assignor.)						
Stoddard, Frederick S., assignor of one-half to J. Nottingham, Syracuse, N. Y. Sully	525,033	Aug. 28	1839	419	68	1044
Stoddard Manufacturing Company. (See Green, Albert J., assignor.)						
Stoehr, Carl, Kiel, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Dimethylpiperazin	514,632	Feb. 13	1099		66	1079
Stoehr, Carl, Kiel, assignor to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Dimethylpiperazin tartrate	523,018	July 17	1459		68	307
Stoelting, Christian H. (See Copeland and Stoelting.)						
Stofer, William A., assignor of one-fourth to H. H. Porterfield, Foxburg, Pa. Locomotive-tender-box lid	512,236	Jan. 2	838	*203	66	159
Stokeley, James A., Kansas City, Mo. Hay-press	524,771	Aug. 21	1377	335 336	68	943
Stoker, George W., assignor to O. L. Hulbert, Kansas City, Mo. Adjustable box-cover	518,554	Apr. 17	1932	477	67	384
Stokes Bros. Manufacturing Company. (See Stokes, John H., assignor.)						
Stokes, Isaac N. P., New York, N. Y. Breech-loading gun	521,831	June 26	1916	459	67	1595
Stokes, John H., assignor to Stokes Bros. Manufacturing Company, Freehold, N. J. Machine for making rasps	521,424	June 12	1189	282 283	67	1428
Stokes, Thomas C., et al. (See Fuchs, Nathan, assignor.)						
Stoll, Heinrich, and F. Maerckliu, Reutlingen, Germany. Straight-knitting machine	523,820	July 31	2866	712	68	596
Stoll, John H., Hutchinson, Kans. Force-pump	516,318	Mar. 13	946	222	66	1646
Stoll, Thomas A., Trenton, N. J. Spring bed-bottom	530,248	Dec. 4	302	76	69	1270
Stolz, Ferdinand, Detroit, Mich. Baker's oven	517,251	Mar. 27	2548	597	66	1979
Stone, Abraham L., assignor to Stone Brothers, Chicago, Ill. Display-holder	526,135	Sept. 18	1413	329	68	1434
Stone, Benjamin F., assignor of one-half to M. Detterick, Las Vegas, N. Mex. Ter. Pipe-coupling	512,457	Jan. 9	1228	297	66	244
Stone Brothers. (See Stone, Abraham L., assignor.)						
Stone, Edward H., Simla, India. Appliance for securing flanged rails to metal sleepers	513,838	Jan. 30	3507	864	66	795
Stone, Florentine L., assignor of two-thirds to Bouvé, Crawford & Company Corporation, Brockton, Mass. Machine for splitting insoles for boots or shoes	527,299	Oct. 9	1021	248 249	69	204
Stone, Florentine L., assignor of two-thirds to Bouvé, Crawford & Company Corporation, Brockton, Mass. Parallel motion	529,339	Nov. 13	1454	350 351	69	932
Stone, Florentine L., Brockton, assignor of two-thirds to Bouvé, Crawford & Company Corporation, Boston, Mass. Adjustable wrist-pin	530,910	Dec. 11	1444	343	69	1494
Stone, Francis G., Lockport, N. Y. Pneumatic toy	530,909	Dec. 11	1443	343	69	1494
Stone, Hamilton W., St. Louis, Mo. Steam-radiator	521,832	June 26	1919	460	67	1596
Stone, Henrie D., assignor to J. S. Newell & Co., Boston, Mass. Paper-box-making machine	523,295	July 17	1942	487 488 424	68	396
Stone, Henrie D., Boston, and C. Thibodeau, Somerville, assignors to J. S. Newell & Co., Boston, Mass. Paper-box-making machine	523,155	July 17	1696	425 426 427	68	351
Stone, Henry C., assignor to O. A. Stone, South Evanston, Ill. Frictional clutch for harvesters	521,485	June 19	1323	308	67	1469
Stone, Henry C., assignor to O. A. Stone, South Evanston, Ill. Clutch device for harvesters	522,628	July 10	785	197	68	168
Stone, James E. (See Smith and Barlow, assignors.)						
Stone, Jane W., et al. (See Kennedy, Frank M., assignor.)						
Stone, John A., Vail, Iowa. Corn-harvesting machine	521,679	June 19	1650	387	*67	1529
Stone, John A., Vail, Iowa. Corn-harvesting machine	521,680	June 19	1653	388	67	1529
Stone, John A., Vail, Iowa. Corn-harvesting machine	521,681	June 19	1655	388 389	67	1530
Stone, John T. (See Bradley, Charles S., assignor.)						
Stone, John T., Oakland, Cal. Door-bell and burglar-alarm	530,666	Dec. 11	1057	257	69	1422
Stone, John T., Oakland, Cal. Door-bell and burglar-alarm	530,667	Dec. 11	1059	258	69	1422
Stone, Laura M., Rochester, N. Y. Gas-stove	518,903	Apr. 24	2536	627 628	67	508
Stone, Laura M., Rochester, N. Y. Water-heater for gas-stoves	519,050	May 1	180	43	67	571
Stone, Marvin C., Washington, D. C. Coating paper tubes, &c.	527,736	Oct. 16	1740	420	69	351
Stone, Melvin, San Diego, Cal. Dish-washer	516,557	Mar. 13	1363	324	66	1722
Stone, Olive A. (See Stone, Henry C., assignor.)						
Stone, Spencer I. (See La Drière and Stone.)						
Stone, Thomas B. (See Smith and Stone.)						
Stoner, Abraham, Greentown, Ohio. Fence-post	517,200	Mar. 27	2467	581	66	1963
Stoner, David U., Mount Joy, Pa. Shutter-hinge	522,571	Nov. 6	84	21	69	661

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Stoney, R. J., Jr., <i>et al.</i> (See Kleber, Oscar L., assignor.)						
Stoops, Andrew J. (See Reed and Stoops.)						
Stoppani, Edouard de, Paris, France. Ice-rink	515,979	Mar. 6	396	92	66	1536
Storck, August C., assignor of one-half to A. C. Erfort, St. Louis, Mo. Concrete block with expanded metal reinforce-core	512,128	Jan. 2	662	158	66	127
Storer, Edwin W., Philadelphia, Pa. Automatic fire-extinguisher	531,228	Dec. 18	2029	483	69	1614
Storer, Jacob J., Helena, Mont., assignor to United Mill and Furnace Company, of Montana. Ore roasting and smelting furnace	516,662	Mar. 20	1547	369	66	1774
Storer, Jacob J., Helena, Mont., assignor to United Mill and Furnace Company, of Montana. Ore-roasting furnace	516,663	Mar. 20	1551	369	66	1774
Storer, Jacob J., Helena, Mont., assignor to United Mill and Furnace Company, of Montana. Fume-arrester	516,664	Mar. 20	1552	369	66	1774
Storer, Jacob J., Helena, Mont., assignor, by mesne assignments, to Economic-Sanitary Company, of Montana. Furnace for treating refuse of cities	518,285	Apr. 17	1464	366	67	301
Storer, John, Sydney, New South Wales, and B. T. Lacy, San Francisco, Cal. Method of and apparatus for dissolving, leaching, and filtering	525,970	Sept. 11	1136	258	68	1370
Storey, Herbert L., <i>et al.</i> (See Farmer, James S., assignor.)						
Storey, Isaac H., <i>et al.</i> (See Farmer, James S., assignor.)						
Storey, Wendel Grafton, Wis. Attachment for mowing-machines	515,802	Mar. 6	118	28, 29	66	1476
Stork, Theodor P. (See Boeing and Stork.)						
Storle, Ole O., Milwaukee, Wis. Harvester-elevator	528,745	Nov. 6	385	92, 93	69	716
Storm, Charles W., Elgin, Ill. Call-bell	526,417	Sept. 25	1936	461	68	1545
Storm, Edwin R., New York, N. Y. Construction of buildings	524,472	Aug. 14	876	216	68	839
Stormer, Henry W., <i>et al.</i> (See Fatkin, James, assignor.)						
Story, John. (See Saunders and Story.)						
Story, John W., Bladeston, Ky. Flood-fence	528,821	Nov. 6	544	130	69	745
Storz, Christian, F. Sorg, and F. Henni, Philadelphia, Pa. Table	529,210	Nov. 13	1235	297	69	890
Stotsenburg, John H. (See Wyman, Charles E., assignor.)						
Stott Garden Implement Company. (See Stott, Samuel H., assignor.)						
Stott, Samuel H., Fullwood, England, assignor to Stott Garden Implement Company, New York, N. Y. Lawn-sprinkler	515,625	Feb. 27	2717	676	66	1410
Stouffer, Hiram C., New Lisbon, Ohio, assignor of one-half to D. C. Spencer, Mobawk, N. Y. Double-acting pump	516,411	Mar. 13	1113	264	66	1676
Stoughton, Emma J. (See Betts, William H., assignor.)						
Stonks, Ernest, Paris, France. Cathode for electrolytic processes and making same	528,042	Oct. 23	2298		69	469
Stout, A. L., <i>et al.</i> (See Hutchinson, Ira R., assignor.)						
Stout, Charles F., <i>et al.</i> (See Snyder, Charles F., assignor.)						
Stout, Edmund C., Scarborough, N. Y. Stadia-rod	525,520	Sept. 4	333	82, 83	68	1213
Stout, George G., Parkersburg, W. Va. Electric-arc lamp	524,003	Aug. 7	60	14	68	673
Stout, Howard B., <i>et al.</i> (See Snyder, Charles F., assignor.)						
Stout, John W. (See Crossley, Stout, and Rigdon.)						
Stoveken, Matthias. (See Meyers and Stoveken.)						
Stover, Cochran C., McKee's Rocks, Pa. Oil-well-casing rig	519,651	May 8	1288	308	67	792
Stover, Edward C., Trenton, N. J. Flushing device for water-closet bowls	514,245	Feb. 6	475	116	66	942
Stover Manufacturing Company. (See Held, August S., assignor.)						
Stover, William R., assignor of one-half to C. C. Sanders, St. Louis Mo. Computing-scale	531,229	Dec. 18	2031	484	69	1614
Stow, Henry W., deceased, New Haven, Conn.; T. F. Booth, administrator. Machine for ripling or dividing boards	518,655	Apr. 24	2108	526, 527	67	430
Stowe, Benjamin L., Jersey City, N. J. Pumping apparatus for sprinkling systems	528,822	Nov. 6	545	130	69	745
Stowe, Benjamin L., Jersey City, N. J. Spooling or winding frame	529,087	Nov. 13	1022	246	69	852
Stowe, Charles E., McAdensville, N. C. Button	520,621	May 29	2915	705	67	1138
Stowell, Ellery, Denver, Colo. Means for and method of maintaining tight joints	515,887	Mar. 6	239	56	66	1498
Stowell, Elmer H., Drayton Plains, and G. W. Terry, Pontiac, Mich. Wire-stay-weaving device	529,211	Nov. 13	1236	297	69	890
Strachan, Archibald R., Pineville, Ky. Coke-oven	511,974	Jan. 2	414	96	66	79
Straight, Lee S., <i>et al.</i> (See Cameron and Dawson, assignors.)						
Straker, Sidney, London, England. Lubricating bearing	525,294	Aug. 28	2283	555	68	1124
Strakosch, Max, assignor of two-thirds to F. Wolf and L. Salzer, New York, N. Y. Wire heddle for looms	513,063	Jan. 16	2236	538	66	449
Strakosch, Max, assignor of two-thirds to F. Wolf and L. Salzer, New York, N. Y. Match-box	528,186	Oct. 30	2547	618	69	530
Stranahan, Olin A. (See Roney and Stranahan.)						
Strande, Sivert, Chicago, Ill. Bread-cutter	529,537	Nov. 20	1842	439	69	1020
Strandwold, Harald, Trysil, N. D. Gun-sight	526,588	Sept. 25	2197	525	68	1592
Strange, Charles E., Taunton, Mass. Mud-guard for bicycle-wheels	512,069	Jan. 2	568	134	66	108
Strasburg, Charles F., Lincoln, Nebr. Trolley-wire hanger	519,621	May 8	1241	298	67	784
Strassburger, Julius, <i>et al.</i> (See Matchett, Alexander, assignor.)						
Strasser, Henry, Thornburg, Iowa. Pulverizing attachment for cultivators	512,408	Jan. 9	1129	273	66	225
Strasser, Henry, Thornburg, Iowa. Pulverizing-cultivator	526,207	Sept. 18	1542	362	68	1456
Strater, Herman, Boston, Mass. Brewing-rat	513,215	Jan. 23	2468	596	66	563
Strattner, Frederick, Salisbury, Md. Apparatus for filling cans and cooking the contents thereof	512,919	Jan. 16	2018	479	66	408
Stratton, Charles H., Buffalo, N. Y. Vehicle	517,988	Apr. 10	956	238, 239	67	193
Stratton, Eliphalet P., College Point, N. Y. Construction of vessels	522,744	July 10	1000	248	68	204
Stratton, George M., Conshohocken, Pa. Ligature-receptacle	529,844	Nov. 27	2345	559	69	1123
Stratton, Jaius L., Chicago, Ill., and F. Murdock, Kansas City, Kans. Disinfecting apparatus. (Reissue)	11,418	May 1	676	165	67	668
Straub, Ambrose W., Philadelphia, Pa. Grinding-mill	512,846	Jan. 16	1882	445	66	383
Stranch, Albert T., New York, N. Y. Piano-damper	513,176	Feb. 20	1970	491	66	1255
Straus, Alexander, New York, N. Y. Elastic fabric	526,546	Sept. 25	2133	511	68	1581
Straus, Alexander L., Baltimore, Md. Implement for shaping bottles	512,409	Jan. 9	1130	273	66	225
Straus, Theodore, Baltimore, Md. Automatic trolley-wire finder	518,357	Apr. 17	1603	397	67	326
Strauss, Emil, Berlin, Germany. Oil-vapor heating apparatus	519,396	May 8	844	204	67	714
Strayer, George D., East Stroudsburg, Pa. Boring-brace	512,237	Jan. 2	839	203	66	159
Strayer, George D., East Stroudsburg, Pa. Adding-machine	514,785	Feb. 13	1354	338	66	1126
Strayer, John F. (See Lottridge, William M., assignor.)						
Streator, Henry D., Galesburg, Mich. Preserving-case	512,286	Apr. 17	1467	367	67	301
Streblow, Carl, Berlin, Germany. Automatic extinguisher	526,875	Oct. 2	344	85	69	65
Streeker, Henry, Marietta, Ohio. Boiler-tube expander	519,278	May 1	606	147	67	654
Streeker, Otto C., Mentz, Germany. Preparing aluminium printing-plates	516,238	Mar. 13	826		66	1622
Street, Arthur W. (See Walther and Street.)						
Street, Francis L., Neodesha, Kans., assignor of one-half to E. L. Fay, Springfield, Mo. Low-pressure alarm	511,818	Jan. 2	108	27	66	24

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Street, Fred, Philadelphia, Pa. Spring-arbor bearing for clocks	515,697	Feb. 27	2339	707	63	1433
Streeter, Herbert A. (See Jerstrum, Herbert, assignor.)						
Streeter, Nelson R., Groton, N. Y. Combined pot chain and scraper	514,840	Feb. 13	1443	362	66	1144
Streeter, Nelson R., and C. P. Mosher, Groton, N. Y. Chain pipe-wrench	520,712	May 29	3084	746	67	1169
Streuber, Gustav A. F., assignor of one-half to F. Rothmann, Oakland, Cal. Beer-fancet	519,931	May 15	1735	435	67	889
Strickland, James T. (See Parker, William H., assignor.)						
Strickland, Joseph C. (See Eckley and Strickland.)						
Strickmaschinenfabrik Seyfert & Donner, Gesellschaft mit Beschränkter Haftung. (See Donner, Hermann, assignor.)						
Strimban, Louis, New York, N. Y. Gas-radiator	522,358	July 3	312	80	68	62
Stringer, Hugh A. (See Casey, Kay, and Stringer.)						
Stripe, Isaac, Aultman, Ohio. Portable oven	527,898	Oct. 23	2028	487	69	420
Strobel, Charles L., Chicago, Ill. Turn-table	528,402	Oct. 30	2921	707 708	69	596
Stroble, George. (See Sweeney and Stroble.)						
Strohbach, Otto. (See Wenk-Wolff and Strohbach.)						
Strohecker, Albert A., and J. Hutton, Trenton, N. J.; said Hutton assignor to said Strohecker. Apparatus for applying icing to pastry	531,398	Dec. 25	2330	556	69	1687
Stroker, Fritz C., Olney, Mo. Wheel-cultivator	524,287	Aug. 7	534	126	68	757
Stromberg, Alfred, Chicago, Ill. Circuit-closer for burglar-alarm systems	530,975	Dec. 18	1566	371	69	1530
Stromberg, Alfred, Chicago, Ill. Burglar-alarm system	530,976	Dec. 18	1567	371	69	1530
Stromberg, Alfred, assignor of one-half to M. Simons, Chicago, Ill. Electric burglar-alarm. (Reissue)	11,423	June 26	2543	611	67	1713
Stromberg, Alfred, and A. Carlson, Chicago, Ill. Telephone-switch	516,777	Mar. 20	1734	408	66	1806
Stromberg, Alfred, and A. Carlson, Chicago, Ill. Magneto-telephone	521,188	June 12	772	181	67	1350
Stromberg, Alfred, and A. Carlson, Chicago, Ill. Telephone-switch	521,514	June 19	1373	319	67	1478
Stromberg, Alfred, and A. Carlson, Chicago, Ill. Telephone	529,818	Nov. 27	2306	549	69	1116
Stromberg, Alfred, and A. Carlson, Chicago, Ill. Telephone-switch	530,208	Dec. 4	929	57	69	1257
Strong, Arthur J., Brooklyn, N. Y. Firearm	517,989	Apr. 10	257	239	67	193
Strong, Frank H. (See Casey, Henry, assignor.)						
Strong, George H., Chicago, Ill. Cabinet for advertising purposes	530,668	Dec. 11	1062	258	69	1423
Strong, George S., New York, N. Y., assignor to J. N. Gamble, Cincinnati, Ohio. Regenerative-boiler setting	522,331	July 3	267	70	68	54
Strong, George W., San Francisco, Cal. Amalgamator and settler	522,807	July 10	1098	271	68	223
Strong, Harriet W. K., Los Angeles, Cal. Method of and means for impounding debris and storing water	528,823	Nov. 6	547	130 131	69	745
Strong, Julia, Brooklyn, N. Y. Exercising-machine	530,669	Dec. 11	1064	258 259	69	1423
Strong, Rollin M., and C. F. Reed, Omaha, Nebr. Electric railway-signal	519,332	May 15	1737	425 426	67	889
Stroud, James, New York, N. Y. Basting and roasting pan	527,252	Oct. 9	939	228	69	190
Stroud, James, New York, N. Y. Meat-roaster. (Reissue)	11,451	Oct. 30	3122	756 757	69	633
Stronse, Demetris B., assignor to Bonsack Machine Company, Salem, Va. Tube-machine	529,426	Nov. 20	1631	387 388	69	983
Stronse, Leopold. (See Nopper, George J., assignor.)						
Strouse, Leopold, Baltimore, Md. Electric call-bell for pneumatic tubes	513,345	Jan. 23	2677	649	66	605
Strout, Joseph M., Portland, Me. Dental clamp	514,289	Feb. 6	539	132	66	955
Struble, Charles B., and C. S. Turner, Minneapolis, Minn. Potato-slicer	527,253	Oct. 9	940	228	69	190
Struble, John B., Shepherd, Mich. Vehicle-pole	525,295	Aug. 28	2284	555	68	1124
Struck, Charles E., assignor of one-half to J. A. Baldwin, Newark, N. J. Car-fender	525,167	Aug. 28	2095	510	68	1087
Struck, Charles E., New York, N. Y., assignor to Renter & Mallory, Baltimore, Md. Ice-making can or vessel. (Reissue)	11,406	Mar. 20	2137	505	66	1884
Strunz, Frederick B., Pittsburg, Pa. Leaching apparatus	527,819	Oct. 23	1877	450	69	393
Strusholm, Anders M., Perth Amboy, N. J. Making enameled brick-tiles, &c.	520,868	June 5	2071	585	67	1223
Strusholm, Anders M., Woodbridge, N. J., assignor to R. W. Lyle, New York, N. Y. Downdraft muffle-kiln	518,012	Apr. 10	995	249 250	67	200
Stuart, Charles C., assignor to Glen Cove Machine Company, Brooklyn, N. Y. Belt-tightener	520,580	May 29	2855	690	67	1127
Stuart, Charles C., assignor to Glen Cove Machine Company, Limited, Brooklyn, N. Y. Power attachment for side cutter-heads	520,581	May 29	2856	691	67	1128
Stuart, Charles C., assignor to Glen Cove Machine Company, Brooklyn, N. Y. Device for weighting feed-rolls	520,582	May 29	2858	691	67	1188
Stuart, Francis F., et al. (See Parker, Thomas, assignor.)						
Stuart, Sinclair, Plainfield, N. J. Construction of ships	526,823	Oct. 2	251	61	69	47
Stuart, Ronald A., et al. (See Chick, Horace F., assignor.)						
Stuart, T. B., et al. (See Church, Edward O., assignor.)						
Stuart, William G., and C. H. Delp, Scottsborough, Ala. Mattress former and press	512,129	Jan. 2	664	159	66	127
Stubbs, Roland H., Waterford, N. Y. Heating apparatus	518,798	Apr. 24	2359	584 585	67	475
Stuck, Dewell, Rochester, N. Y. Dental chair	522,922	July 10	1279	317	68	257
Stuckey, Henry, Bucyrus, Ohio. Brick-machine	521,349	June 12	1073	251 252	67	1407
Stuckey, Mortimer, and H. Arthur, Adelaide, South Australia. Apparatus for the concentration or separation of ores	518,082	Apr. 10	1105	280	67	218
Studabaker, Hugh D., Bluffton, Ind. Register for rotations of vehicle-wheels, &c.	521,682	June 19	1657	389	67	1530
Studebaker Brothers Manufacturing Company. (See Haberle, John B., assignor.)						
Stuebner, Adolph, Bennett, Pa. Stamp or envelope moistener	530,135	Dec. 4	99	26	69	1233
Stump, Ira E., Richville, assignor of one-half to J. E. Van Nostran, Canton, Ohio. Hay-loader	518,555	Apr. 17	1933	478	67	384
Stump, William G. H. (See Ferguson, William J., assignor.)						
Stupe, Richard E. (See Henneman, John, assignor.)						
Sturdy, Nathan, Chicago, Ill. Potato-digger	521,057	June 5	543	127 128	67	1295
Sturgeon, Carson J., assignor to Keystone Electric Company, Erie, Pa. Automatic rheostat	513,626	Jan. 30	3171	779	66	731
Sturges, Lee, assignor to Chicago Stamping Company, Chicago, Ill. Churn	529,884	Nov. 27	2408	578	69	1135
Sturgis, Julius F. (See Kissinger, Thomas, assignor.)						
Sturgiss, James, Edgerton, Mo. Window-shade exhibitor	519,414	May 8	870	210	67	719
Sturm, Frederick H., West Milford, W. Va. Gate	530,629	Dec. 11	987	242	69	1411
Sturm, Henry, Nauvoo, Ill. Draft-equalizer	526,271	Sept. 18	1644	357	68	1476
Sturm, James N., Belpre, Ohio. Crane or derrick	524,619	Aug. 14	1124	276 277	68	855
Sturtevant, Benjamin J., St. Paul, Minn. Seal	514,786	Feb. 13	1355	338	66	1126
Sturtevant, Benjamin J., St. Paul, Minn. Seal	523,382	July 24	2085	525	68	439
Sturtevant, Charles A., Plainfield, N. J. Fire-escape	519,397	May 8	844	204	67	714

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Sturtevant, Charles L., administrator. (See Greaves and Wardle.)						
Sturtevant, Charles L., administrator. (See Richardson and Fidler.)						
Sturtevant Mill Company. (See Sturtevant, Thomas L. and T. J., assignors.)						
Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)						
Sturtevant, Thomas L. and T. J., Quincy, Mass. Grinding-mill	522,698	July 10	891	220	68	187
Sturtevant, Thomas L. and T. J., Quincy, Mass. Steam-generator	523,447	July 24	2208	555	68	459
Sturtevant, Thomas L. and T. J., Quincy, Mass. Steam-generator	523,448	July 24	2209	555	68	459
Sturtevant, Thomas L. and T. J., Quincy, Mass. Steam-generator section	524,740	Aug. 21	1322	323	68	933
Sturtevant, Thomas L. and T. J., Quincy, Mass., assignors to Sturtevant Mill Company, Portland, Me. Grinding-mill	529,761	Nov. 27	2200	524	69	1095
Sturts, Charles F. A., assignor of one-half to W. J. Schroth, San Francisco, Cal. Electrical protection for safes	516,239	Mar. 13	827	193	66	1622
Sturts, Charles F. A., assignor of one-half to W. J. Schroth, San Francisco, Cal. Electrical protection for windows	516,240	Mar. 13	829	194	66	1623
Statzer, Albert, and J. Schäfer, Bonn, Germany. Bottle-stopper	515,626	Feb. 27	2718	677	66	1410
Suchsland, Emil, Halle-on-the-Saale, Germany. Fermenting or curing tobacco	516,778	Mar. 20	1735	.....	66	1806
Sucker State Drill Company. (See Schopp and Liese, assignors.)						
Sudbrock, Joseph, Jr., Belleville, Ill. Rotating grain weigher	518,247	Apr. 17	1468	367	67	301
Sudheimer, George F., F. Thon, and M. Richter, St. Louis, Mo. Car-coupling	516,458	Mar. 13	1195	286	66	1691
Sues, George W. (See Giles and Maxwell, assignors.)						
Sueur, Alfred. (See Paillard and Sueur.)						
Suffern, James B., Hillburn, N. Y. Switch-stand	516,241	Mar. 13	830	194	66	1623
Suffern, James B., Hillburn, N. Y. Switch-stand	516,242	Mar. 13	832	195	66	1623
Suffern, John A. (See Knapp, John H., assignor.)						
Sulc, Joseph, Prague, Austria-Hungary. Match-box	526,418	Sept. 25	1937	461	68	1545
Sullivan, Christine, Cincinnati, Ohio. Model-stand	521,833	June 26	1920	460	67	1596
Sullivan, Cornelius G., Woodland, Cal. Tellurian	531,399	Dec. 25	2330	556	69	1687
Sullivan, Daniel E., Green River, Wyo. Piston-removing device	526,589	Sept. 25	2197	525	68	1593
Sullivan, Henry J., deceased, Stillwater, Minn.; M. J. Sullivan, executrix. Log-hauling locomotive	511,975	Jan. 2	416	96	66	79
Sullivan, J. O., et al. (See Norcross, George A., assignor.)						
Sullivan, James M., Chicago, Ill. Coin-operated planetarium	525,937	Sept. 4	138	34, 35	68	1175
Sullivan, Jeremiah, Jr., Dudley, Pa. Drilling-machine	527,462	Oct. 16	1301	318	69	272
Sullivan, Mary J., executrix. (See Sullivan, Henry J.)						
Sullivan, Timothy J., New Orleans, La. Forming staves	516,243	Mar. 13	834	195	66	1624
Sullivan, William E., Roodhouse, Ill. Road-grader attachment	523,134	July 17	1665	417	68	346
Sullivan, William M., et al. (See Lewis, Harry A., assignor.)						
Sully, Robert M., Petersburg, Va. Seal-lock	516,579	Mar. 13	1399	333	66	1729
Sulzberger, Ferdinand. (See Moackler, William, assignor.)						
Sumbling, William H. (See Zszech and Sumbling.)						
Summerhayes, Henry J., San Francisco, Cal. Belt for ore-concentrators	513,216	Jan. 23	2469	596	66	564
Sümmerrmann, Carl, Münster, Germany. Horizontally-sliding window, door, or the like	520,713	May 29	3085	{ 746 747 }	{ 67 67 }	{ 1169 1169 }
Summers, James E., Clifton Forge, Va. Composition of matter	525,926	Sept. 11	1059	.....	68	1355
Summers, Lelaad L. (See Parker and Summers.)						
Summers, Lewis P., Kansas City, assignor of one-tenth to W. S. Mead, Sheffield, Mo. Grain weighing, registering, and discharging machine	528,403	Oct. 30	2924	708	69	597
Summers, Smith W., assignor to International Automatic Air Brake Compler Company, St. Louis, Mo. Combined car and air-brake coupling	526,119	Sept. 18	1388	323	68	1423
Sumner, William J., assignor to Coburn Trolley Track Manufacturing Company, Holyoke, Mass. Step-ladder and guiding-trolley therefor	528,824	Nov. 6	549	131	69	746
Sand, Niels C., Chicago, Ill. Stop-cock box	514,633	Feb. 13	1100	273	66	1078
Superior Drill Company. (See Packham, Frank R., assignor.)						
Superior Rubber Type Company. (See Scottford, Louis K., assignor.)						
Supinger, William T., North Star, Ohio. Fence-machine	513,371	Jan. 23	2721	{ 660 661 }	{ 66 66 }	{ 613 613 }
Suppes, Maximilian M., Johnstown, Pa. Draw-bar	520,090	May 22	2012	491	67	955
Suppes, Maximilian M., Johnstown, Pa., assignor, by mesne assignments, to Johnson Company, of Pennsylvania. Railway rail and chair and uniting same	517,075	Mar. 27	2256	534	66	1922
Suren, Nathan H., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Electro-mechanical gong	513,251	Jan. 23	2540	{ 612 611 }	{ 66 66 }	{ 578 578 }
Surtin, John H., assignor of two-thirds to R. McCulloch and W. Sutton, St. Louis, Mo. Oil-drawer journal-box	517,776	Apr. 3	607	150	67	118
Susini, Paul de, Paris, France. Ether-vapor motor	514,573	Feb. 13	995	251	66	1058
Susky, Adolf. (See Distl and Susky.)						
Suspension Arch Fire Proofing Company. (See McCarthy, Mitchell F., assignor.)						
Sutcliffe, William W., New Orleans, La. Bagasse-furnace	517,497	Apr. 3	137	30	67	28
Suter, Jacob, New York, N. Y. Door-check	522,091	June 26	2379	{ 572 573 }	{ 67 67 }	{ 1682 1682 }
Suter, John R., Conway, Ark. Cultivator	528,825	Nov. 6	550	131	69	746
Süther Maschinenfabrik, vormals H. Hammerschmidt. (See Kelzgrén, Carl, assignor.)						
Sutliff, James R., assignor to Foster, Merriam & Company, Meriden, Conn. Furniture-caster	512,920	Jan. 16	2022	479	66	409
Sutliff, James R., assignor to Foster, Merriam & Company, Meriden, Conn. Caster	514,247	Feb. 6	476	116	66	942
Sutphen, John T. (See Buffington and Sutphen.)						
Sutro, Adolph, San Francisco, Cal. Swimming-pool or bath	520,342	May 22	2463	597	67	1038
Sutro, Gustav, et al. (See Van Emen, Burton C., assignor.)						
Sutton, Andrew H., assignor to Fabric Measuring and Packaging Company, New York, N. Y. Fabric measuring and marking machine	526,061	Sept. 18	1282	{ 296 297 }	{ 68 68 }	{ 1410 1410 }
Sutton, Delana M., Harrison, Nehr. Device for trimming and paring hoofs	524,403	Aug. 14	785	192	68	821
Sutton, Eugene S., Snohomish, Wash. Clothes-drier	520,501	May 29	2724	660	67	1102
Sutton, Joseph W., Chelmer, Queensland. Process of and apparatus for extraction of gold or silver from ores	521,898	June 26	2034	{ 490 491 }	{ 67 67 }	{ 1619 1619 }
Sutton, Joseph W., Chelmer, Queensland. Separating gold from its chlorid solutions	521,899	June 26	2036	.....	67	1620
Sutton, Joseph W., Chelmer, Queensland. Rotary apparatus for generation of chlorine gas, &c.	527,899	Oct. 23	2029	488	69	420
Sutton, Sanders B., North Baltimore, Ohio. Sash-balance	525,237	Aug. 28	2194	538	68	1105
Sutton, William, et al. (See Surtin, John H., assignor.)						
Sutton, William, St. Louis, Mo. Combined reinforce dash-post and grab-handle for cars	516,948	Mar. 20	2018	477	66	1861
Sutton, William, St. Louis, Mo. Folding car-seat	531,573	Dec. 25	2635	631	69	1746
Sutton, William, St. Louis, Mo. Spring-bearing car-truck	531,574	Dec. 25	2637	632	69	1746
Sutton, William, St. Louis, Mo. Truck for electric cars	531,575	Dec. 25	2640	{ 632 633 }	{ 69 69 }	{ 1747 1747 }
Suydam, John, deceased, Albany, N. Y.; M. S. Suydam and G. L. Van Allen, administrators. Weather-strip	522,626	July 10	781	197	68	167

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Suydam, Mary S., <i>et al.</i> , administrators. (See Suydam, John.)						
Swack, Judson D., assignor to Ney Manufacturing Company, Canton, Ohio. Means for shifting and securing hay-elevator pulleys.	527,737	Oct. 16	1741	420	69	351
Swain, Hadwen, San Francisco, Cal. Gas-engine	519,880	May 15	1659	403	67	875
Swales, Frank, London, England. Bridle-bit	531,230	Dec. 18	2033	485	69	1615
Swan, Alfred, Schenectady, N. Y., assignor to General Electric Company, Boston, Mass. Lamp-socket.	516,844	Mar. 20	1841	436	66	1829
Swan, Charles E. (See Peckham and Swan.)						
Swan, George C., assignor of two-fifths to F. C. Russell, Brockton, Mass. Incandescent lamp.	516,689	Mar. 20	1592	379	66	1782
Swan, Henry C., Oshkosh, Wis. Car-coupling	516,881	Mar. 20	1900	449	66	1846
Swan, Henry C., Oshkosh, Wis. Spring-shackle for vehicles	526,506	Sept. 25	2075	494	68	1571
Swan, Henry C., Oshkosh, Wis. Shifting rail	526,507	Sept. 25	2076	494	68	1571
Swan, James, Seymour, Conn. Screw-driver	520,091	May 22	2013	492	67	956
Swan, James, Seymour, Conn. Hollow auger	520,502	May 29	2725	660	67	1102
Swan, James, Seymour, Conn. Screw-driver	523,555	July 24	2394	600	68	493
Swan, William W., Andover, S. D. Ball-bearing drilling-swivel	521,942	June 26	2119	508	67	1635
Swanberg, Claus, Gilbert, Mich. Lock	528,450	Oct. 30	3007	736	69	612
Swanburn, Sanford, assignor to I. L. Ellwood Manufacturing Company, De Kalb, Ill. Barb-wire machine	520,459	May 29	2650	640	67	1089
Swaney, Fletcher D., Kansas City, Kans. Gang-punch	530,560	Dec. 11	873	215	69	1390
Swann, Robert B., Vernon, Tex. Hame-hook	513,217	Jan. 23	2470	596	66	564
Swart, Lester D. (See Stevens and Swart.)						
Swartz, Frank E., <i>et al.</i> (See Pinnell, Jones T., assignor.)						
Swartz, George W., Florence, Ala. Gearing for electric locomotives	513,599	Jan. 30	3122	767	66	723
Swartz, George W., Florence, Ala. Electric train lighting and braking system	517,498	Apr. 3	140	31	67	29
Swayze, Caleb, Toronto, Canada. Antispattering-guard	524,795	Aug. 21	1416	347	68	951
Swedlund, Erick J., Atwater, Minn. Bicycle-gear	519,933	May 15	1739	426	67	890
Swedlund, Erick J., Atwater, Minn. Watch-bow fastener	531,480	Dec. 25	2481	591	69	1715
Sweeney, James, Pottstown, and G. Stroble, assignors of one-third to J. W. Lauderbach, Philadelphia, Pa. Tension device for loom-shuttles	528,895	Nov. 6	676	163	69	770
Sweeney, James B., and R. W. Laird, assignors to Laird & Sweeney Manufacturing Company, St. Johnsbury, Vt. Power-hammer	529,634	Nov. 20	1987	474	69	1048
Sweeney, James B., and R. W. Laird, St. Johnsbury, Vt. Power-hammer	514,787	Feb. 13	1356	338	66	1127
Sweeney, John, <i>et al.</i> (See Elliott, James W., assignor.)						
Sweeney, Patrick, Omaha, Nebr. Car-coupling	515,803	Mar. 6	121	29	66	1476
Sweeney, Vardiman T., Springfield, Ky. Wagon-brake	528,826	Nov. 6	551	132	69	747
Sweeny, Peter B. (See Dale, John H., assignor.)						
Sweet, Benjamin F., Fond du Lac, Wis. Nut-lock	515,848	Mar. 6	190	45	66	1488
Sweet, Benjamin F., Fond du Lac, Wis. Combined brace and brake-support for vehicles	516,283	Mar. 13	896	211	66	1637
Sweet, Benjamin F., Fond du Lac, Wis. Sleigh-knee socket	517,076	Mar. 27	2257	534	66	1923
Sweet, Benjamin F., Fond du Lac, Wis. Nut-lock	524,493	Aug. 14	909	224	68	845
Sweet, Benjamin W., assignor of one-half to S. S. Chisholm, Chicago, Ill. Interlocking safety-switch	526,547	Sept. 25	2134	511	68	1581
Sweet, Daniel F., Grand Rapids, Mich. Automatic electric cut-out	529,212	Nov. 13	1237	297	69	890
Sweet, Daniel F., Grand Rapids, Mich. Electrical cut-out	529,213	Nov. 13	1238	296	69	890
Sweet, Frank, Kirksville, Mo. Adding-machine	519,358	May 8	779	190	67	701
Sweet, Frederick D., Elyria, Ohio. Rotary engine	531,481	Dec. 25	2482	591	69	1715
Sweet, John E. (See Trump and Sweet.)						
Sweet, Lartine C., Loami, Ill. Wagon end-gate	529,819	Nov. 27	2307	549	69	1116
Sweet, Warren, Fort Wayne, Ind. Washing machine	531,576	Dec. 25	2643	633	69	1747
Sweet, Warren, assignor to J. F. Curtice, Fort Wayne, Ind. Washing-machine	527,463	Oct. 16	1303	318	69	272
Sweet, William A. (See Crandall, Lucien S., assignor.)						
Sweet, William A., Syracuse, N. Y. Bar-piling mechanism for rolling-mills	512,458	Jan. 9	1229	297	66	244
Sweetland, Frank, Angola, N. Y. Hitching-strap	530,136	Dec. 4	100	26	69	1233
Sweetland, Jerome B., Pontiac, Mich., assignor of three-fourths to E. M. Beebe, Memphis, Tenn., and E. A. Carter, Birmingham, Mich. Boot-blackening machine	527,900	Oct. 23	2031	488	69	421
Sweger, George B., Chicago, Ill. Sigmoid irrigator	520,275	May 22	2350	570	67	1017
Swegard, Emanuel W., Chicago, Ill. Locking hat and coat hook	519,102	May 1	277	66	67	589
Sweitzer, Frank P., Chicago, Ill. Index	519,622	May 8	1242	298	67	785
Swem, James M., assignor to Swem Supply and Construction Company, Denver, Colo. Gate for railway-crossings	515,307	Feb. 20	2196	544	66	1298
Swem Supply and Construction Company. (See Swem, James M., assignor.)						
Swenson, Magnus, Chicago, Ill. Press	530,914	Dec. 11	1450	344	69	1495
Swenson, Malcom, Concord, N. H. Ice-velocipede	529,088	Nov. 13	1024	246	69	852
Swenson, Paul, Minneapolis, Minn. Pitman-head	517,177	Mar. 27	2427	571	66	1956
Swenson, Paul, Minneapolis, Minn. Thrashing-machine	525,749	Sept. 11	743	172	68	1299
Swenson, Paul, Minneapolis, Minn. Thrashing-cylinder	529,214	Nov. 13	1241	298	69	891
Swetnam, Ecra R. (See Campbell, Joseph E., assignor.)						
Sweet, Albert L., Medina, N. Y. Door-hanger	529,971	Nov. 27	2565	618	69	1163
Swickard, John W., assignor to E. K. Hayes, Galva, Ill. Wheel-plow	520,905	June 5	274	66	67	1247
Swift, Charles N., New York, N. Y. Cigar-case	520,092	May 22	2014	492	67	956
Swift, Charles N., New York, N. Y. Tobacco-moistening device	528,700	Nov. 6	318	78	69	704
Swift, Daniel W. (See Swift, Henry D. and D. W.)						
Swift, Gustavus F. (See Gardner, Horace C., assignor.)						
Swift, Henry D. and D. W., assignors to Logan, Swift & Brigham Envelope Company, Worcester, Mass. Journal-bearing for the gum-box rolls of envelope-machines	511,819	Jan. 2	109	27	66	24
Swift, Henry D. and D. W., assignors, by mesne assignments, to Logan, Swift & Brigham Envelope Company, Worcester, Mass. Envelope-machine	520,147	May 22	2126	519	67	975
Swift, Oliver F. (See Mix, Eugene M. and J. E., assignors.)						
Swift, William H. (See Bonehill, Louis R., assignor.)						
Swift, William H., assignor of one-half to J. H. McGrady, Boston, Mass. Conduit electric railway	531,450	Dec. 25	2437	580	69	1707
Swigart, Eugene. (See Hoke, Edward, assignor.)						
Swiggett, A., <i>et al.</i> (See Smith, Andrew J., assignor.)						
Swindell, William, Allegheny, Pa. Regenerative furnace	524,915	Aug. 21	1611	395	68	985
Swindle, Lafayette, Franklin, Ill. Leaf-turner	519,934	May 15	1740	426	67	890
Swink, John L., St. Louis, Mo. Kitchen-cabinet	525,750	Sept. 11	744	173	68	1300
Switzer, George, Lodi, Ohio. Car-coupling	517,967	Apr. 10	913	229	67	187
Switzer, George S., <i>et al.</i> (See Donahoo, Peter B., assignor.)						
Swoboda, Hans O., New York, N. Y., assignor to General Incandescent Arc Light Company, of New York, Electric-arc lamp	527,901	Oct. 23	2033	488	69	421
Swoboda, Otto H., assignor to S. Bergmann, New York, N. Y. Electric-arc lamp	524,357	Aug. 14	685	167	68	802

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Swofford, Thomas C., Fordyce, Ark. Nut-lock.....	524,004	Aug. 7	61	14	68	673
Swope, Harry, <i>et al.</i> (See Bowley, George J., assignor.)						
Sykes, Benjamin J., Sykesville, Pa. Mowing-machine.....	512,130	Jan. 2	665	159	66	127
Sykes, Thomas, Philadelphia, Pa. Loom-temple.....	525,566	Sept. 4	420	101	68	1329
Sykes, William, London, England. Pipe-joint.....	515,627	Feb. 27	2719	677	66	1410
Sykes, William R., Jr., and J. P. O'Donnell, London, England. Signal-replacer.....	528,997	Nov. 13	869	206	69	825
Sylvester, Warren B., Portland, Ind. Tub roller and shaper.....	521,739	June 19	1748	415	67	1548
Symes, James E., Bancroft, Mich. Adjustable screen.....	513,468	Jan. 23	2286	710	66	644
Symington, Duncan, assignor of one-half to Frontier Iron Works, Detroit, Mich. Steam-engine governor.....	518,728	Apr. 24	2246	559	67	454
Symington, Thomas H., Baltimore, Md. Dust-guard for axle-boxes.....	518,288	Apr. 17	1469	362	67	301
Symmes, Henry D., St. Catharines, Canada. Automatic regulator for dynamos.....	524,245	Aug. 21	1507	368	68	966
Symon, Robert R. (See House, Henry A. and Henry A., Jr., assignors.)						
Symonds, Clarence M., San Francisco, Cal. Can-body-making machine.....	515,136	Feb. 20	1901	478	66	1242
Symonds, Clarence M., San Francisco, Cal. Can-body-making machine.....	516,033	Mar. 6	439	{ 113 114 }	66	1542
Symonds, Clarence M., San Francisco, Cal. Can-soldering machine.....	525,521	Sept. 4	335	83	68	1213
Symonds, Joseph A., Newton, Mass. Collapsible tube or package for mucilage.....	514,290	Feb. 6	541	133	66	955
Symonds, Thomas, Leominster, Mass. Dredging-bucket.....	514,788	Feb. 13	1358	339	66	1127
Symonds, Thomas, Leominster, Mass. Submarine drilling apparatus.....	516,032	Mar. 6	487	{ 112 113 }	66	1542
Sypher, Abraham J. (See Douglass and Sypher.)						
Syracuse Arms Company. (See Hollenbeck, Frank A., assignor.)						
Syracuse Chilled Plow Company. (See Burdick, Hiram M., assignor.)						
Syracuse Specialty Manufacturing Company. (See Dickinson, Austin R., assignor.)						
Sythes, William H., assignor of two thirds to E. S. Conant, Boston, Mass., and S. G. Dorman, Old Orchard, Me. Garment-supporter.....	512,670	Jan. 9	1557	374	66	307
Syverson, Andreas, deceased; O. E. O. Hoell, O. C. Land, and H. Thompson, executors, assignors to Chicago Corrugated Elbow Company, Chicago, Ill. Stovepipe-elbow machine.....	519,062	May 1	204	47.48	67	575
Szukalski, Marian, Newton, Wis. Mower attachment.....	518,430	Apr. 17	1731	430	67	349
T. & B. Tool Company. (See Johnson, Moses C., assignor.)						
Taafel, William G., Newark, Ohio. Pressure-regulator.....	527,902	Oct. 23	2035	488	69	422
Taber, Orrin, assignor to Nashua Saddlery Hardware Company, Nashua, N. H. Jockey-plate.....	512,338	Jan. 9	1004	245	66	201
Tabler, John H., Russellville, Ky. Machine for crushing and grinding asphalt rock.....	517,311	Mar. 27	2645	621	66	1998
Tabor, Byron D., assignor of three-fourths to E. F. Barton and A. N. Dwight, Wilson, N. Y. Roller-bearing.....	526,120	Sept. 18	1390	324	62	1429
Tabor, Harris, Elizabeth, N. J. Fluid-brake valve.....	518,289	Apr. 17	1470	368	67	302
Tadin, Erik O., Stockholm, Sweden. Medicinal food and preparing same.....	525,818	Sept. 11	869	.....	68	1322
Taft, Cyrus A., assignor to Whittin Machine Works, Whitinsville, Mass. Stop-motion.....	519,295	May 1	638	155	67	660
Taft, Jerome C., Providence, R. I. Rotary swaging-machine.....	515,376	Feb. 27	2323	576	66	1334
Taft, Jerome C., Providence, R. I. Die for the manufacture of twist-drills.....	518,205	Apr. 10	1328	332	67	260
Taggart, Horace D., Akron, Ohio. Syringe-valve.....	528,701	Nov. 6	319	78	69	704
Taggart, William N., assignor of one-half to H. C. Meyers, Philadelphia, Pa. Converting cast-iron into steel.....	525,296	Aug. 28	2285	.....	68	1124
Tagliabue, Alexander, West Hoboken, N. J. Bottle-corking machine.....	522,608	July 10	1099	271	68	223
Tagliabue, Charles J., Brooklyn, N. Y. Syringe.....	524,962	Aug. 21	1669	414	68	998
Tait, Felix B. (See Moore, Josiah H., assignor.)						
Tait, George. (See Kinter and Teller, assignors.)						
Takamine, Jokichi, Chicago, Ill. Preparing and making fermented alcoholic liquors.....	525,819	Sept. 11	870	.....	68	1322
Takamine, Jokichi, Chicago, Ill. Preparing and making taka-koji.....	525,820	Sept. 11	874	.....	68	1322
Takamine, Jokichi, Chicago, Ill. Preparing and making moto.....	525,821	Sept. 11	878	.....	68	1323
Takamine, Jokichi, Chicago, Ill. Preparing and making taka-moyashi.....	525,822	Sept. 11	881	.....	68	1324
Takamine, Jokichi, Chicago, Ill. Means for and method of converting starchy material into sugar.....	525,971	Sept. 11	1138	.....	68	1371
Takamine, Jokichi, Peoria, Ill. Making diastatic enzyme.....	525,933	Sept. 11	885	.....	68	1324
Takamine, Jokichi, Peoria, Ill. Taka-koji ferment and preparing and making same.....	525,824	Sept. 11	888	.....	68	1325
Takamine, Jokichi, Peoria, Ill. Alcoholic-ferment mash.....	525,825	Sept. 11	890	.....	68	1325
Talbert, Daniel H., Knightstown, Ind. Fence.....	519,743	May 15	1433	346	67	833
Talbot, Benjamin, Pencoyd, Pa. Manufacture of steel.....	522,034	June 26	2291	.....	67	1665
Talbot, George H., Lansing, Mich. Whiffletree.....	524,358	Aug. 14	686	167	68	802
Talbot, Thomas, assignor of one-third to B. Charron, Mattawa, Canada. Hand-car.....	522,438	July 3	462	117	68	92
Talcott, Robert B. (See Eisert and Talcott.)						
Talcott, Walter O., Providence, R. I. Machine for making sheet-metal belt-fasteners.....	525,123	Aug. 28	2004	490	68	1072
Talcott, Walter O., Providence, R. I. Die for bending teeth of sheet-metal belt-fasteners.....	525,124	Aug. 28	2006	490	68	1072
Tallant, James F., Charleston, S. C. Steam-cooker.....	512,339	Jan. 9	1005	246	66	202
Tallman, Harvey, Beamsville, Canada. Double-disk harrow.....	525,368	Sept. 4	85	22	68	1166
Tallman, John C., Bridgeport, Conn. Rubber tire.....	527,820	Oct. 23	1879	451	69	393
Talmadge, William H., Pompton, N. J. Mouthpiece for cornets.....	513,346	Jan. 23	2678	649	66	605
Talmage, Charles H., St. Louis, Mo. System of electrical distribution.....	512,839	Jan. 30	3508	864	66	795
Tamas, Johann, and E. Nemes, Maros-Vasárhely, Austria-Hungary. Crematory furnace.....	512,131	Jan. 2	666	159	66	128
Tanger, David B., Bellefontaine, Ohio. Thrashing-machine.....	513,689	Jan. 30	3276	806	66	751
Tannenbergh, August O. (See Gardner, Cook, and Tannenbergh.)						
Tanner, Allen J., assignor of one-half to A. O. Holmes, Franklinville, N. Y. Can-filling machine.....	518,973	May 1	57	14.15	67	547
Tanner, Charles, <i>et al.</i> , trustees. (See Tanner, Charles, assignor.)						
Tanner, Charles, Staunton, assignor to C. and M. A. Tanner, trustees, Richmond, Va. Shovel.....	512,238	Jan. 2	839	203	66	159
Tanner, Eveline N. (See Couch, Charles A., assignor.)						
Tanner, Henry J., Lynn, assignor of one-half to H. Fairfield-Hamilton, Boston, Mass. Trolley-guard.....	526,756	Oct. 2	149	36	69	29
Tanner, Martha A., <i>et al.</i> , trustees. (See Tanner, Charles, assignor.)						
Tanner, Newton J., assignor to himself and J. H. Lee, Oviedo, Fla. Animal-trap.....	515,263	Feb. 20	2115	525	66	1282
Tanner, William W., and T. W. Burch, assignors of one-third to J. Gerber, Fremont, Mich. Drawer-guide.....	526,509	Sept. 25	2079	495	68	1571
Tannewitz, Edward, Grand Rapids, Mich. Pivot-bearing for platform-scales.....	519,485	May 8	991	240	67	739
Tanquary, Cassius M., assignor of one-half to A. Garrett, Sparland, Ill. Feeder for thrashing-machines.....	519,029	May 1	146	35.36	67	564
Tanzer, Frederick A., Portage, Wis. Machine for fulling hosiery.....	513,600	Jan. 30	3123	767	66	723
Taplin, Rice & Company. (See Gifford, Charles A., assignor.)						
Taplin, Rice & Company. (See White, Nathan D., assignor.)						
Tarbell, Reuben J. and R. S. A., Los Angeles, Cal. Insect screen and trap.....	515,561	Feb. 27	2615	649	66	1389

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Tarbell, Robert S. A. (See Tarbell, Renben J. and R. S. A.)						
Tardif, Frederick, and W. Wethered, assignors to said Tardif and L. Sloss, Jr., San Francisco, Cal. Can-labeling machine	524,916	Aug. 21	1612	{ 395 396 }	{ 68 68 }	{ 985 985 }
Tascher, John, Chicago, Ill. Photographic camera	525,238	Aug. 28	2195	535	68	1105
Tascher, John, Chicago, Ill. Magazine-camera	525,239	Aug. 28	2197	{ 535 536 }	{ 68 68 }	{ 1105 1105 }
Tasker, Stephen P. M., Philadelphia, Pa. Machine for making taper tubes from hollow ingots	513,218	Jan. 23	2471	396	68	564
Tasker, Stephen P. M., Philadelphia, Pa. Rotary engine	518,635	Apr. 24	2070	{ 515 516 }	{ 67 67 }	{ 424 424 }
Tate, Mercer B. (See Smith, William E., assignor.)						
Tateni, James W., assignor of one-half to W. H. Rowland and W. R. Cooper, Durham, N. C. Combined fireplace and ventilator	529,972	Nov. 27	2566	618	69	1163
Tatham, James, Philadelphia, Pa. Sheathing electrical conductors	529,215	Nov. 13	1243	299	69	891
Tatham, James, Philadelphia, Pa. Conduit for electric conductors	529,216	Nov. 13	1244	299	69	891
Tattersall, John H. (See Leighton, Walter H., assignor.)						
Tauberschmidt, John A., Washington, D. C. Cable-grip	514,389	Feb. 6	691	{ 174 175 }	{ 66 66 }	{ 983 983 }
Taubman, John F., Fort Plain, N. Y. Storm-apron for vehicles	513,427	Jan. 23	2802	6-7	66	629
Tauflieb, Auguste, and V. Chausard, Issoudun, France. Wheelbarrow	524,917	Aug. 21	1616	396	68	926
Taunay, Edward, New York, N. Y. Peanut-roaster	513,690	Jan. 30	3277	806	66	751
Taunton Locomotive Manufacturing Company. (See Dean and Mathews, assignors.)						
Taussig, Emil. (See Taussig, Salomon and E.)						
Taussig, Salomon and E., New York, N. Y. Disinfecting device	522,863	July 10	1174	293	68	238
Taylor, Andrew J. (See Fuller and Taylor.)						
Taylor, Barnett, Forestville, Minn. Beehive	519,652	May 8	1290	308	67	793
Taylor, Benjamin F., Newark, N. J., assignor to Taylor Improved Draught Company, of New Jersey. Locomotive. (Reissue.)	11,437	Sept. 4	624	147	68	1265
Taylor, Benjamin F., Newark, N. J., assignor to Taylor Improved Draught Company, of New Jersey. Locomotive. (Reissue.)	11,438	Sept. 4	625	148	68	1266
Taylor, Benjamin F., Newark, N. J., assignor to Taylor Improved Draught Company, of New Jersey. Atmospheric-pressure relief for chimney-stacks	530,630	Dec. 11	988	243	69	1411
Taylor, Benjamin S., and C. Heritage, Hampden, Mass. Stop-motion for looms	520,277	May 22	2351	{ 570 571 }	{ 67 67 }	{ 1017 1017 }
Taylor, Call. (See Taylor, John and C.)						
Taylor, Charles F., New York, N. Y. Type-writing machine	514,517	Feb. 13	903	230	66	1041
Taylor, Charles H., South Orange, N. J. Car-coupling	517,670	Apr. 3	436	105	67	83
Taylor, Charles H., Lincoln, Nehr. Corn separator, husker, and fodder-slitter	518,358	Apr. 17	1604	397	67	326
Taylor, Charles L., Louisville, Ky. Means for supporting carpet-rolls	529,973	Nov. 27	2567	618	69	1163
Taylor, Douglas. (See Young, Walter S., assignor.)						
Taylor, Edward T., Oakland, Cal. Fare-register	515,888	Mar. 6	241	57, 58	66	1499
Taylor, Edward T., Oakland, Cal. Fare-register	531,231	Dec. 18	2034	485	69	1615
Taylor, Elmer Z. (See Blaisdell, Frederick E., assignor.)						
Taylor, Emma B., Grand Rapids, Mich. Dress-stay	515,804	Mar. 6	122	29	66	1476
Taylor, Enoch L., Philadelphia, Pa. Metallic railway-tie	524,359	Aug. 14	687	{ 167 168 }	{ 68 68 }	{ 803 803 }
Taylor, Enoch L., Philadelphia, Pa. Metallic railway-tie	524,360	Aug. 14	688	168	68	803
Taylor, Enoch L., Philadelphia, Pa. Metallic railway-tie	525,927	Sept. 11	1059	240	68	1356
Taylor, Eugene H. (See Cole and Taylor.)						
Taylor, Eugene H. (See Forster and Taylor.)						
Taylor, Eugene H., Lynn, Mass. Machine for covering paper boxes	521,299	June 12	974	230	67	1386
Taylor, Frank D., Colorado Springs, Colo. Clamp for hose-couplings	517,128	Mar. 27	2341	552	66	1939
Taylor, Frank H., and F. Riley, Joliet, Ill. Oil cellar for driving-boxes for locomotives	521,515	June 19	1374	319	67	1478
Taylor, Fred W., Webster, Mass. Skate-sharpening device	527,350	Oct. 9	1102	299	69	219
Taylor, Frederick, Lowell, Mass. Coat and hat hook. (Reissue.)	11,416	Apr. 24	2600	643	67	519
Taylor, Frederick S. (See Scott, Frank D., assignor.)						
Taylor, George H., New York, N. Y. Dress-protector trimming	515,027	Feb. 20	1734	438	66	1211
Taylor, George H., London, England. Locomotive-boiler	516,949	Mar. 20	2019	{ 477 478 362 }	{ 66 66 66 }	{ 1861 1861 1143 }
Taylor, George H., London, assignor to W. O. A. Lowe, Liverpool, England. Steam-boiler	514,841	Feb. 13	1443	{ 363 364 }	{ 66 66 }	{ 1143 1143 }
Taylor, George W., assignor of one-half to C. W. Boggs, Denver, Colo. Checkrein attachment	524,992	Aug. 21	1759	429	68	1013
Taylor, Hiram B., Ramsey, Ill. Car-coupling	529,427	Nov. 20	1633	388	69	983
Taylor, Horace H., assignor of one-half to G. W. Mitchell, Los Angeles, Cal. Magneto-electric machine	513,347	Jan. 23	2679	{ 649 650 }	{ 66 66 }	{ 605 605 }
Taylor Improved Draught Company. (See Taylor, Benjamin F., assignor.)						
Taylor Improved Draught Company. (See Taylor, Benjamin F., assignor.) (Reissue.)						
Taylor, Isaiah H., assignor of three-fourths to S. Breslauer, I. and A. Saks, Washington, D. C. Can soldering machine	516,980	Mar. 20	2065	489	66	1870
Taylor, James H., Toledo, Ohio. Washboard	511,914	Jan. 2	317	75	66	62
Taylor, James H., Toledo, Ohio. Letter-copying press	514,204	Feb. 6	3-9	93	66	927
Taylor, Jefferson Z., Deal's Island, Md. Knockdown barrel	513,840	Jan. 30	3512	865	66	797
Taylor, Jefferson Z., Deal's Island, Md. Shipping-crate	522,538	July 3	614	157	68	121
Taylor, John. (See McCreery and Taylor.)						
Taylor, John, Manchester, England. Humidifier	517,310	Mar. 27	2644	621	66	1998
Taylor, John and C., Detroit, Mich. Apparatus for raising sunken vessels	517,630	Apr. 3	352	83	67	69
Taylor, John C., Findlay, Ohio. Car-coupling	512,630	Jan. 9	1484	358	66	592
Taylor, John D., Chillicothe, Ohio. Automatic block-signal	516,558	Mar. 13	1364	{ 324 325 }	{ 66 66 }	{ 1723 1723 }
Taylor, John D., Chillicothe, Ohio. Railway signaling and switching apparatus	516,903	Mar. 20	1937	{ 457 458 }	{ 66 66 }	{ 1846 1846 }
Taylor, John W., Cape Girardeau, Mo. Belt hook or clamp	526,757	Oct. 2	150	36	69	29
Taylor, John W., Peterborough, Canada. Apparatus for the manufacture of carbon brushes	526,951	Oct. 2	465	114	69	88
Taylor, Joseph S. (See Blackwell, Alfred, assignor.)						
Taylor, Joseph S. See Welch, Rosia W., assignor.)						
Taylor, Lakin C., Kankakee, Ill. Refrigerator	530,670	Dec. 11	1066	259	69	1424
Taylor, Marion M., Brownwood, Tex. Churn-mower	513,156	Jan. 23	2380	574	66	547
Taylor, Millard F., et al. (See Townsend, Cort, assignor.)						
Taylor, Robert M., Melrose, Mass. Manufacture of artificial ice	519,359	May 8	779	190	67	702
Taylor, Samuel C., Chicago, Ill. Window	525,168	Aug. 28	2097	511	68	1087
Taylor, Shaw & Cocker et al. (See Duffy, Joseph, assignor.)						
Taylor, Thomas A., Kenton, Ohio. Jail-grate	512,763	Jan. 16	1752	415	66	358
Taylor, Tifford B., El Dara, Ill. Gate	525,297	Aug. 28	2286	556	68	1124

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Taylor, Walter R. (See Fowler and Taylor.)						
Taylor, Warren H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Tool for forming key-slots in locks	514,248	Feb. 6	477	117	66	942
Taylor, William, Carman, Canada. Band-cutter and feeder for thrashing-machines	523,183	July 17	1751	{ 439 440 230	{ 63 66 66	361
Taylor, William J., Aldrich, Mo. Wireless check-row attachment for corn-planters	514,518	Feb. 13	906	230	66	1042
Teal, Benjamin F., assignor to Standard Valve Company, Chicago, Ill. Mechanism for controlling engines	513,601	Jan. 30	3125	768	66	723
Teal, Benjamin F., assignor to Standard Valve Company, Chicago, Ill. Speed-stop for engines	528,746	Nov. 6	386	93	69	717
Teal, Charles A., Clifton Heights, Pa., assignor to Holyoke Envelope Company, Holyoke, Mass. Printing-machine	524,031	Aug. 7	106	{ 22 23 126 127 128 129	{ 68 68	681
Teal, Charles A., assignor to Holyoke Envelope Company, Holyoke, Mass. Machine for making and printing envelopes	524,288	Aug. 7	535	{ 126 127 128 129	{ 68 68	758
Teal, Henry S., Chicago, Ill., assignor to Adams & Westlake Company, of Illinois. Brake-handle	531,577	Dec. 25	2644	633	69	1747
Teale, William B., Birmingham, England. Driving-chain	528,622	Nov. 6	174	43	69	678
Teaney, John, and J. T. O'Connell, McKee's Rocks, Pa. Splice-bar for railway-joints	516,665	Mar. 20	1554	370	66	1775
Teate, Thomas A., Enstis, assignor of two-thirds to F. S. A. Maude, Leesburg, Fla., and W. B. Williamson, Warrenton, Va. Mechanical motor	512,764	Jan. 16	1753	{ 415 416	{ 66 66	358
Tebow, William R., Tiskilwa, Ill. Umbrella	530,505	Dec. 11	1279	309	69	1464
Tecktonius, Emil C., Racine, Wis. Band-fastening	516,690	Mar. 20	1593	380	66	1782
Teed, Oliver F., assignor to Western Leather Manufacturing Company, Chicago, Ill. Lock	530,862	Dec. 11	1367	326	69	1479
Teedy, Michael J. (See Carlaw and Teedy.)						
Teel, George A., Newport Beach, Cal. Fuse-capper	527,132	Oct. 9	747	183	69	151
Teetor, Jacob U., Hagerstown, Ind. Grain measuring, registering, and sacking machine	515,177	Feb. 20	1970	491	66	1255
Teetor, Martin V., et al. (See Barber, Arthur J., assignor.)						
Tegethoff, Bernard J., St. Louis, Mo. Safety express-car	525,634	Sept. 4	517	125	68	1248
Telegram Cycle Manufacturing Company. (See Heyde, Carl von der, assignor.)						
Tell, Richard, Milwaukee, Wis. Tobacco-tying machine	521,189	June 12	774	{ 181 182	{ 67 67	1350
Teller, George D. (See Kinter and Teller.)						
Temler, Joseph, Warsaw, Russia. Machine for making joints with metal clamps	515,028	Feb. 20	1734	438	66	1211
Temler, Joseph, Warsaw, Russia. Apparatus for applying gummed ornamental paper strips on pasteboard	521,871	June 26	1976	477	67	1607
Tempest, John. (See Rankin and Tempest.)						
Temple, John, and J. C. Ward, Wilsonburg, W. Va. Railway cross-tie	517,369	Mar. 27	2743	645	66	2018
Temple, William, Windsor, N. Y. Horse-boot	520,193	May 22	2207	538	67	990
Templeton, Charles, Akron, Ohio. Plant for the manufacture of oil-cloth	529,217	Nov. 13	1245	{ 299 300	{ 69 69	891
Templin, Andrew M. (See Cox, Henry M., assignor.)						
Ten Eyck, Charles A. (See Ten Eyck, Frank E., C. A., and J. H.)						
Ten Eyck, Frank E., C. A., and J. H., Auburn, N. Y., said J. H. Ten Eyck assignor to said Frank E. and C. A. Ten Eyck. Egg-carrier	528,187	Oct. 30	2548	618	69	530
Ten Eyck, James H. (See Ten Eyck, Frank E., C. A., and J. H.)						
Ten Winkel, August, Denver, Colo. Producing printing-surfaces	522,566	July 3	666	169	68	130
Ten Winkel, August, Denver, Colo. Printing-surface and making same	522,567	July 3	669	170	68	130
Tendollen, John. (See Liefbroer and Tendollen.)						
Tengdin, Charles G. (See Ahlvin and Tengdin.)						
Tennant, Edward I., Springfield, Ohio. Vehicle-body	530,977	Dec. 18	1569	372	69	1530
Tenney, Mary J., Oskaloosa, Iowa. Fly-screen	514,390	Feb. 6	694	175	66	984
Tenney, Nason M., and G. W. Harrison, Plano, Ill. Corn-harvester	521,058	June 5	546	{ 128 129	{ 67 67	1296
Tentelow Chemical Works Company. (See Harmuth, Albert, assignor.)						
Terhane, Eugene A., assignor of four-fifths to S. Forsyth, J. H. Vandivier, W. T. Ewing, and J. M. Dalton, Harrodsburg, Ky. Hedge-fence	524,032	Aug. 7	108	23	68	682
Terustrom, Ernst. (See Bergman and Terustrom.)						
Terp, Olaf, London, England. Manufacture of emery-wheels	514,391	Feb. 6	695		66	984
Terp, Olaf, London, England. Composition for boring or drilling tools	515,698	Feb. 27	2840	707	66	1434
Terrill, Archelaus S., Chicago, Ill. Advertising shipping-tag	526,590	Sept. 25	2198	{ 525 526	{ 68 68	1593
Terry, Eugene, assignor of one-half to B. Almy, Ithaca, N. Y. Mucilage-bottle	519,051	May 1	182	43	67	571
Terry, George W. (See Stowell and Terry.)						
Terry, Robert E., Mobile, Ala. Log-carrier	522,360	July 3	315	81	68	62
Terry, Robert E., Mobile, Ala. Log-carrier	526,758	Oct. 2	152	36	69	29
Terry, Robert E., assignor of one-fourth to J. C. Steele, Mobile, Ala. Railway-switch	522,359	July 3	313	{ 80 81	{ 68 68	62
Tesch, Herman. (See Ingersoll, George W., assignor.)						
Teske, Charles, Springfield, Mass. Polishing and filing attachment for lathes	516,779	Mar. 20	1736	408	66	1806
Tesla Electric Company. (See Tesla, Nikola, assignor.)						
Tesla, Nikola, New York, N. Y. Electric generator	511,916	Jan. 2	320	75	66	62
Tesla, Nikola, New York, N. Y. Coil for electro-magnets	512,340	Jan. 9	1006	246	66	202
Tesla, Nikola, New York, N. Y. Electrical conductor	514,167	Feb. 6	313	75	66	912
Tesla, Nikola, New York, N. Y. Means for generating electric currents	514,168	Feb. 6	314	75	66	912
Tesla, Nikola, New York, N. Y. Reciprocating engine	514,169	Feb. 6	316	75	66	913
Tesla, Nikola, New York, N. Y. Incandescent electric light	514,170	Feb. 6	319	75	66	913
Tesla, Nikola, New York, N. Y. Electric-railway system	514,972	Feb. 20	1649	413	66	1197
Tesla, Nikola, New York, N. Y. Electrical meter	514,973	Feb. 20	1650	413	66	1197
Tesla, Nikola, New York, N. Y. Steam engine	517,900	Apr. 10	792	199	67	167
Tesla, Nikola, assignor to Tesla Electric Company, New York, N. Y. Electrical transmission of power	511,915	Jan. 2	318	75	66	62
Tesla, Nikola, assignor to Tesla Electric Company, New York, N. Y. Electro-magnetic motor	524,426	Aug. 14	809	197	68	826
Tessen, Ewald, Rostock, Germany. Composition for removing paint	521,834	June 26	1921		67	1586
Tesserman, Henry, assignor to Barney & Smith Car Company, Dayton, Ohio. Gate attachment for railway-cars	514,519	Feb. 13	911	230	66	1042
Test, Clayton. (See Jones and Test.)						
Tetlow, Henry, and T. Harrison, Philadelphia, Pa.; said Harrison assignor to said Tetlow. Boller	527,515	Oct. 16	1380	336	69	285
Tetreau, George, Laconia, N. H. Dry-goods board	518,379	Apr. 17	1649	407	67	334
Tenfel, George W. (See Walter, Harry, assignor.)						
Tenfel, George W., Philadelphia, Pa. Ecraseur	519,798	May 15	1527	372	67	851

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Tenfel, Wilhelm J. (See Schütz and Landerer, assignors.)						
Tenschler, John, Jr., Bridal Veil, Oreg. Suspensory bandage	531,232	Dec. 18	2037	485	69	1615
Tewksbury, Andrew J., Haverhill, Mass. Leather-skiving machine	517,631	Apr. 3	353	83, 84	67	69
Tewksbury, Andrew J., Haverhill, Mass. Circular knife for leather-skiving machines	519,744	May 15	1434	346	67	833
Tewksbury, George E., Topeka, Kans., assignor, by mesne assignments, to United States Phonograph Company, of New Jersey. Coin-operated mechanism for phonographs	523,556	July 24	2394	{ 600 601 }	{ 68 68 }	493
Texas Implement and Machine Company. (See Schofield, James D., assignor.)						
Thacher Car and Construction Company. (See Thacher, William A., assignor.)						
Thacher, John B. (See Parke, Robert A., assignor.)						
Thacher, William A., assignor to Thacher Car and Construction Company, New York, N. Y. Engineer's valve	521,425	June 12	1192	283	67	1429
Thackara Manufacturing Company. (See Peeples, George, assignor.)						
Thacker, Henry D., Petersburg, Va. Trunk	514,099	Feb. 6	194	45	66	891
Thackston, William D., Des Moines, Iowa, assignor to J. C. Bennett, Lynn, Mass. Fire-escape	530,863	Dec. 11	1369	327	69	1480
Thalaker, Edward H., Petersburg, W. Va. Nut-lock	518,165	Apr. 10	1245	312	67	242
Thalmueller, Frank, Jr., Huntingburg, Ind. Fluid-pressure brake	517,901	Apr. 10	794	199	67	167
Thame, Henry. (See Kirkpatrick-Picard and Thame.)						
Thamerus, Paul, assignor to Firm of Jos. Feix, Gablonz, Austria-Hungary. Game apparatus	514,520	Feb. 13	912	231	66	1042
Thamm, Adalbert, Berlin, Germany. Ear-bandage	516,135	Mar. 6	639	150	66	157 ^c
Thanner, Leonhard, Boerwang, Germany, assignor to E. Christiansen, Leavenworth, Kans. Bicycle-sled	527,903	Oct. 23	2038	489	69	422
Thatcher, Charles T., Rochester, N. Y. Cleaning attachment for type-writing machines	521,900	June 26	2038	491	67	1620
Thatcher, Elston R., Mechanicsville, assignor of one-half to C. E. Batdorf, Cedar County, Iowa. Bicycle-tire	525,475	Sept. 4	266	65	68	1201
Thatcher, Frederick B., Providence, R. I. Bottle-stopper	517,968	Apr. 10	915	229	67	187
Thatcher, Walter R., Oskaloosa, Iowa. Ice-cream freezer	521,426	June 12	1195	284	67	1429
Thayer, Albert. (See McCabe and Thayer.)						
Thayer, Everett E., Jackson, Mich. Kite	523,490	July 24	2289	576	68	473
Thayer, George W., Ottumwa, Iowa. Coal-drill	516,512	Mar. 13	1291	307	66	1708
Thayer, Henry J., et al. (See Burdick, Charles L., assignor.)						
Thayer, Henry J., Boston, Mass. Fishing apparatus	518,013	Apr. 10	997	250	67	200
Thayer, Henry J., Boston, Mass. Trolling spoon	524,494	Aug. 14	911	234	68	845
Thayer, Henry W., Brooklyn, and W. J. Wallace, Whitestone, N. Y. Stall-floor	529,569	Nov. 20	1893	{ 450 451 }	{ 69 69 }	1030
Thayer, James M., Boston, Mass. Hot-water heating apparatus	512,847	Jan. 16	1884	446	66	383
Thayer, Russell, Philadelphia, Pa. Gas-engine	517,077	Mar. 27	2259	534	66	1923
Thayer, Russell, Philadelphia, Pa. Siphon	523,418	July 24	2148	539	68	449
Theemling, Jacob. (See Hickethier and Theemling.)						
Theiling, John J. H., Charleston, S. C. Locomotive-boiler attachment	516,950	Mar. 20	2020	478	66	1862
Thelander, Frithiof A. V., Stockholm, Sweden. Automatic wagon-brake	515,264	Feb. 20	2116	525	66	1282
Theobald, Gustave A., New Orleans, La. Car-coupling	522,439	July 3	464	117	68	92
Theodore C. Prouty Company. (See Prouty, Theodore C., assignor.)						
Therrien, Gabriel, Brockton, Mass. Buffer for shanks of boots or shoes	529,510	Nov. 20	1797	428	69	1012
Thery, Charles, and A. Oblasser, Paris, France. Secondary electric battery. (Reissue.)	11,442	Sept. 18	1827	{ 433 434 }	{ 68 68 }	1513
Theurer, Jacob F., Milwaukee, Wis., assignor to Universal Carbonating Company, Newark, N. J. Apparatus for charging liquids with carbonic acid	512,070	Jan. 2	569	134	66	108
Theurer, Jacob F., Milwaukee, Wis., assignor to Universal Carbonating Company, Newark, N. J. Apparatus for charging liquids with carbonic acid	519,140	May 1	353	84	67	606
Theurer, Jacob F., Milwaukee, Wis., assignor to Universal Carbonating Company, Newark, N. J. Impregnating beer with carbonic acid	519,141	May 1	355	84, 85	67	606
Thew, John W., Marion, Ohio. Store-service apparatus	514,431	Apr. 17	1732	451	67	350
Thew, Richard, Cleveland, Ohio. Excavator dipper, scoop, or shovel	530,209	Dec. 4	230	57, 58	69	1257
Thew, Richard, Cleveland, Ohio. Excavator shovel or scoop	530,210	Dec. 4	234	58	69	1258
Thibodeau, Charles. (See Stone and Thibodeau.)						
Thiebaud, Bedford P., Springfield, Ohio. Street-pavement	512,568	Jan. 9	1392	336	66	275
Thiebaud, Bedford P., Springfield, Ohio. Street-pavement	512,569	Jan. 9	1394	{ 336 337 }	{ 66 66 }	275
Thiele, Adolph, and C. F. Fox, Dayton, Ohio. Stove-truck	525,298	Aug. 28	2287	556	68	1125
Thielemann, Oscar, Freiberg, Germany. Baby-carriage	520,632	May 29	2916	705	67	1139
Thielen, John, assignor of one-half to Fremont Saddlery Company, Fremont, Nebr. Neck-yoke center	523,383	July 24	2026	525	68	439
Thiell Combustion Governor and Manufacturing Company. (See Thiell, George L., assignor.)						
Thiell Combustion Governor and Manufacturing Company of Baltimore City. (See Thiell, George L., assignor.)						
Thiell, George L., assignor to Thiell Combustion Governor and Manufacturing Company, Baltimore, Md. Apparatus for controlling the admission of air to furnaces	515,377	Feb. 27	2324	{ 576 577 578 }	{ 66 66 66 }	1334
Thiell, George L., Baltimore, Md., assignor to Thiell Combustion Governor and Manufacturing Company of Baltimore City. Variable exhaust for engines	522,864	July 10	1175	293	68	238
Thiell, George L., Baltimore, Md., assignor to Thiell Combustion Governor and Manufacturing Company of Baltimore City, of Maryland. Draft-regulating apparatus for furnaces	526,419	Sept. 25	1938	{ 461 462 463 }	{ 68 68 68 }	1545
Thiell, George L., Baltimore, Md., assignor to Thiell Combustion Governor and Manufacturing Company of Baltimore City. Apparatus for controlling the admission of air to furnaces	526,510	Sept. 25	2080	{ 495 496 }	{ 68 68 }	1571
Thieme, Carl O., St. Louis, Mo. Device for cutting boiler-tubes	512,631	Jan. 9	1485	359	66	292
Thieme, Carl O., St. Louis, Mo. Device for cutting boiler-tubes	516,459	Mar. 13	1196	256	66	1691
Thier, Christian. (See Schirra, Julius, assignor.)						
Thier, Hermann, Königstein, Germany. Button-fastener	529,974	Nov. 27	2568	619	69	1164
Thiery, Paul L. V., Newark, N. J. Key-ring	523,057	July 17	1515	379	68	318
Thies, Heinrich, Laaken, and E. Herzog, Mulhouse, Germany. Bleaching	529,089	Nov. 13	1025	247	69	852
Thies, John B., assignor to Gem City Manufacturing Company, Dayton, Ohio. Liquid-mixer	519,978	May 15	1815	445	67	904
Thinnes, Jacob, Brooklyn, N. Y. Nut-lock	523,605	July 24	2470	620	68	507
Thissell, Earl A. (See Wilder, Thissell, Lannert, and Jeavons.)						
Thissell, Earl A., Florence, Mass. Vending-machine	530,561	Dec. 11	876	{ 215 216 }	{ 69 69 }	1391
Thissen, John H. (See Forrester and Doneken, assignors.)						
Thode, Gustav A. (See Thode, Joachim, W. C., and G. A.)						
Thode, Henry F., administrator. (See Thode, Joachim, W. C., and G. A.)						
Thode, Joachim and W. C., deceased, (H. F. Thode, administrator,) Holstein, Iowa, and G. A. Thode, Osmond, Nebr. Check-row corn-planter	515,265	Feb. 20	2117	{ 525 526 }	{ 66 66 }	1283

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Thode, William C. (See Thode, Joachim, W. C., and G. A.)						
Thoden, Edward K., Brooklyn, N. Y. Portable boring and mortising machine	513,348	Jan. 23	2681	{ 650 651 }	66	606
Thofehn, Hermann, Paris, France. Electrodeposition of metals	519,595	May 8	1190	287	67	776
Thom, George, Dunedin, New Zealand. Ship's log	527,464	Oct. 16	1304	318	69	272
Thom, John, Ioverkip, Scotland. Steam-engine distribution-valve	514,392	Feb. 6	696	{ 175 176 }	66	984
Thoma, Georg, and F. Kies, South Bend, Ind. Minnow-pail	513,740	Jan. 30	3363	829	66	766
Thomas, William, Schenectady, N. Y. Fly-trap	519,745	May 15	1434	346	67	833
Thomas, Alexander, Nevada, Mo. Window-screen	519,415	May 8	871	211	67	719
Thomas, Allen E. (See Work, Charles L., assignor.)						
Thomas, August, Petersburg, Ky. Propelling mechanism for vessels	516,747	Mar. 20	1698	402	66	1890
Thomas, Carl H., Neugersdorf, assignor to C. A. Roscher, Altgersdorf, Germany. Shedding mechanism for looms	517,129	Mar. 27	2342	{ 552 553 }	66	1940
Thomas, Charles E., Buckeystown, Md. Car-fender	518,904	Apr. 24	2538	628	67	509
Thomas, Clifford E. (See Orr and Thomas.)						
Thomas, Clotilde P., Evansville, Ind. Powder-box	520,343	May 22	2464	597	67	1038
Thomas, Clotilde P., Evansville, Ind. Hat-pin retainer	521,683	June 19	1659	389	67	1531
Thomas, Daniel E., Toledo, Ohio. File for keeping records	518,390	Apr. 17	1650	{ 407 408 }	67	334
Thomas, Daniel W., Pittsburg, Ohio. Fence	528,828	Nov. 6	554	132	69	747
Thomas, David R., assignor of one-half to W. F. Harendt, Baltimore, Md. Trolley-wheel and support	524,517	Aug. 14	954	235	68	852
Thomas, Edgar, Pittsburg, assignor of one-half to P. M. Amberg, Allegheny, Pa. Car-fender	523,693	July 31	2639	655	68	554
Thomas, Edward W. (See Foster, Hiram A., assignor.)						
Thomas, Edwin E., assignor to M. Garland, Bay City, Mich. Circular sawing machine	518,432	Apr. 17	1735	431	67	350
Thomas, Edwin E., assignor to M. Garland, Bay City, Mich. Sawmill-carriage	523,156	July 17	1700	427	68	352
Thomas, Edwin E., assignor to M. Garland, Bay City, Mich. Sawmill-buffer	529,218	Nov. 13	1246	300	69	892
Thomas, Emily. (See Thomas, George, assignor.)						
Thomas, Frederick J., Raynham, Mass. Shaping-machine with milling attachment	525,476	Sept. 4	267	65, 66	68	1201
Thomas, George, assignor to E. Thomas, Jersey City, N. J. Drawing-instrument	527,300	Oct. 9	1023	249	69	204
Thomas, George L., Brooklyn, assignor to Hasell Perfected Railway Signal Company, New York, N. Y. Block-signal system	523,491	July 24	2290	{ 576 577 578 }	68	473
Thomas, George L., Brooklyn, N. Y., and E. C. Seward, Montclair, N. J.; said Seward assignor to said Thomas. Signal apparatus	526,168	Sept. 18	1469	343	68	1443
Thomas, George W., Yosemite, Ky. Combined pipe and nut wrench	526,420	Sept. 25	1940	463	68	1546
Thomas, Harry K. (See Chambers and Doud, assignors.)						
Thomas, Henry O., Kimball, Nebr. Hand-truck	528,747	Nov. 6	389	93, 94	69	717
Thomas, Henry O., Kimball, assignor of one-half to J. W. Stevenson, North Bend, Nebr. Machine for baling trees	511,917	Jan. 2	323	76	66	62
Thomas, Henry W., Johnstown, Pa., assignor, by mesne assignments, to Johnson Company, of Pennsylvania. Bearing for rolls of rolling-mills	526,466	Sept. 25	2019	481	68	1559
Thomas, Isaac, et al. (See Rodgers, George W., assignor.)						
Thomas, James E., Bay City, Mich. Sediment-extractor for steam-boilers	530,137	Dec. 4	101	27	69	1234
Thomas, John F. (See Gros and Thomas.)						
Thomas, John G., Lima, Ohio. Communion-service	516,065	Mar. 6	540	1-6	66	1553
Thomas, John J. (See Parke, Francis E., assignor.)						
Thomas, John O. (See Dawson and Thomas.)						
Thomas, John R., assignor to Berlin Machine Works, Beloit, Wis. Feed mechanism	512,410	Jan. 9	1131	{ 273 274 }	66	226
Thomas, John R., assignor to Berlin Machine Works, Beloit, Wis. Adjustable bearing for upper feed-rolls of planing-machines	520,714	May 29	3087	747	67	1169
Thomas, John W., Jr., Nashville, Tenn. Pneumatic system of and apparatus for handling railway-switches	520,812	June 5	93	21, 22	67	1215
Thomas, John W., Jr., Nashville, Tenn. Pneumatic system of and apparatus for handling railway-signals	520,813	June 5	100	22, 23	67	1215
Thomas, Joseph C., New Bedford, Mass. Paddle-wheel mechanism for propelling boats	520,944	June 5	355	86	67	1262
Thomas, Joseph M., St. Louis, Mo. Smoke-consuming furnace	519,779	May 15	1492	361	67	844
Thomas, Joshua, Cleveland, Ohio. Governor for feed-pumps	519,360	May 8	780	191	67	702
Thomas, Joshua, Cleveland, Ohio. Regulator for open tanks	531,482	Dec. 25	2484	592	69	1716
Thomas, Lancaster, Philadelphia, Pa. Machine for the manufacture of compressed tablets	528,572	Nov. 6	85	92	69	662
Thomas, Larkin A., Banning, Ga. Pulp-engine	521,300	June 12	976	231	67	1387
Thomas, Lincoln N., Cincinnati, Ohio, assignor to A. N. Ritz, Milwaukee, Wis. Inkstand	531,345	Dec. 25	2240	535	69	1669
Thomas Manufacturing Company. (See Moore, Thomas, assignor.)						
Thomas, Martin E., and W. H. Denison, Cushman, Ark. Milk-bucket	516,319	Mar. 13	947	222	66	1646
Thomas, Maurice S., Hughesville, Pa. Automatically-operated churn, &c	523,135	July 17	1666	417	68	346
Thomas, Minnie S., Waterville, Wash. Kitchen-cabinet	520,460	May 29	2652	641	67	1090
Thomas, Parliamer M. (See Power, William A., assignor.)						
Thomas, Robert S., et al. (See Elam, William E., assignor.)						
Thomas, Theodore B., Quincy, Mass. Hammock	517,557	Apr. 3	232	53	67	46
Thomas, Theodore L., Chicago, Ill. Apparatus for coating metal plates	527,628	Oct. 16	1561	378	69	318
Thomas, Thomas J., Knoxville, Tenn. Sanding device	528,998	Nov. 13	870	206	69	825
Thomas, Thomas L., and J. B. Hillman, Princes End, near Tipton, England. Apparatus for wiping galvanized tubes	525,567	Sept. 4	421	101	68	1229
Thomas W. Price Company. (See Beddow, Josiah, assignor.)						
Thomas, Warren M. (See Ferris and Thomas.)						
Thomas, William, assignor of one-half to M. Ruppert, Washington, D. C. Plumber's grappling-tool	528,827	N. Y. 6	553	132	69	747
Thomas, William H., Taylorsburg, Va. Churn	519,746	May 15	1435	346	67	833
Thomas, William M., assignor to Union Metallic Cartridge Company, Bridgeport, Conn. Cartridge-shell for practice shooting	531,233	Dec. 18	2038	486	69	1615
Thomason, Whiteford S., et al. (See Harris, William A. and B. S. H., assignors.)						
Thomlinson, Arthur. (See Bierce and Thomlinson.)						
Thomlinson, Arthur, assignor of one-half to W. W. Bierce, Montgomery, Ala. Valve-operating mechanism	512,570	Jan. 9	1395	337	66	275
Thomlinson, John, Jr., and E. L. Kastholm, Chicago, Ill. Planing-machine	529,428	Nov. 20	1635	{ 388 389 }	69	953
Thomlinson, William R., Glasgow, Scotland. Foot-ball	526,136	Sept. 18	1415	330	68	1434
Thompson, Alfred J., Kaufman, Ill. Dumping-wagon	515,623	Feb. 27	2721	677	66	1410
Thompson, Allan P., Minneapolis, Minn. Cigar-tip cutter	520,461	May 29	2654	641	67	1090
Thompson, Allan P., and W. B. Murray, Minneapolis, Minn. Powder-receptacle	523,184	July 17	1756	440	68	361

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Thompson & Bushnell Company. (See Snow and Pierpont, assignors.)						
Thompson, Caleb A., and O. G. Emshiveller, Tazewell, Va. Book-rest for hotel-registers ..	521,488	June 19	1327	309	67	1470
Thompson, Charles, Fremont, Ohio. Shears ..	523,950	July 31	3109	774	68	642
Thompson, Charles, Oswego Falls, assignor of one-half to J. H. Case, Fulton, N. Y. Car-truck ..	514,873	Feb. 13	1492	374	66	1132
Thompson, Charles A. (See La Pointe, Flanagan, and Thompson.)						
Thompson, Charles W., Antrim, N. H. Raisin-seeding machine ..	514,689	Feb. 13	1190	297	66	1095
Thompson, Crozier T., Salt Lake City, Utah Ter. Car-coupling ..	525,062	Aug. 28	1898	465	68	1054
Thompson, David W., Chicago, Ill. Thermostat ..	528,189	Oct. 30	2552	619	69	531
Thompson, E. N., administrator. (See Thompson, Frank T.)						
Thompson, Edward, assignor, by mesne assignments, to Titus-Gardner Paper and Mann-facturing Company, Middletown, Ohio. Paper bag ..	519,398	May 8	846	205	67	714
Thompson, Eustace N. (See Thompson, Frank T., assignor.)						
Thompson, Eveline W., Boston, Mass. Extension traveling bag ..	515,928	Mar. 6	305	72	66	1510
Thompson, Frank T., deceased, (E. N. Thompson, administrator,) assignor of one-half to E. N. Thompson, Cleveland, Ohio. Mechanism for seaming and coiling sheet metal ..	523,694	July 31	2641	655	68	554
Thompson, George A., and J. F. Schmadeke, Brooklyn, N. Y. Speed-indicator and alarm ..	529,975	Nov. 27	2569	619	69	1164
Thompson, George F., Minneapolis, Minn. Vehicle-gearing ..	514,892	Feb. 13	1525	382	66	1159
Thompson, George J. (See Crawford, Morgan, Jr., assignor.)						
Thompson, George L., Chicago, Ill. Kit for heating curling-irons, &c.	511,976	Jan. 2	417	97	66	79
Thompson, George L., Chicago, Ill. Curling-iron ..	519,653	May 8	1291	309	67	793
Thompson, George M., et al. (See Fowler, Charles M., assignor.)						
Thompson, George T., Warsaw, Ky. Machine for tempering grain ..	528,013	Oct. 23	2299	554	69	469
Thompson, George W., Leadville, Colo. Railway-spike ..	519,511	May 8	1027	248	67	746
Thompson, Hakon, et al., executors. (See Syversen, Andreas.)						
Thompson, Harry, Brooklyn, assignor to himself, and J. F. Ambrose, New York, N. Y. Car-brake ..	512,588	Jan. 9	1426	343	66	280
Thompson, Henry. (See Doe, Walter S., assignor.)						
Thompson, Henry H. (See Buzzo and Thompson.)						
Thompson, Henry R., et al. (See Kempster, Daniel E., assignor.)						
Thompson, Isaac F., assignor of one-half to W. L. Palmer, San Francisco, Cal. Engine-governor ..	512,411	Jan. 9	1133	274 } 275 }	66 }	226 }
Thompson, Jacob, assignor of one-half to T. B. Montgomery, Benicia, Cal. Merry-go-round ..	514,393	Feb. 6	698	176	66	984
Thompson, Jacob W., et al. (See Hall and Baker, assignors.)						
Thompson, James A., Galveston, Tex. Seed-planter ..	518,014	Apr. 10	998	250 } 251 }	67 }	201 }
Thompson, James M., Stoneham, Mass. Boot or shoe ..	512,412	Jan. 9	1134	275	66	226
Thompson, John D. G., London, England. Ventilating-fan ..	525,928	Sept. 11	1060	241	68	1356
Thompson, John S. W. (See Thompson, William H., assignor.)						
Thompson, John W., assignor, by mesne assignments, of one-third to J. W. Branch, Al-vord, Tex. Force-pump ..	526,759	Oct. 2	154	37	69	30
Thompson, Jonas A., Suffield, Conn. Harness ..	527,904	Oct. 23	2039	489	69	422
Thompson, La Marcus A., Chicago, Ill. Toboggan-slide ..	520,248	May 22	2302	559	67	1008
Thompson, Lucius A. (See Low and Thompson.)						
Thompson, Mark S., New York, N. Y. Brazing or smelting apparatus ..	524,450	Aug. 14	849	208	68	834
Thompson, Milton T. (See Gutierrez and Thompson.)						
Thompson, Oliver E., Ypsilanti, Mich. Root-cutter ..	529,219	Nov. 13	1249	300	69	892
Thompson, Oswald H., Philadelphia, Pa. Awning-lifter ..	519,780	May 15	1494	362	67	844
Thompson, Parker C., Elmira, N. Y. Electric-alarm operating mechanism ..	526,760	Oct. 2	155	37	69	30
Thompson, Percy, et al. (See Fox, John C., assignor.)						
Thompson, Percy, et al. (See Warner, Frank A., assignor.)						
Thompson, Peter M., Anaconda, Mont. Hay rake and loader ..	522,629	July 10	787	198	68	163
Thompson, Ralph P., Springfield, Ohio. Cash-register ..	521,067	June 26	2170	521	67	1643
Thompson, Ralph P., Springfield, assignor to C. W. Price, Greenfield, Ohio. Cash-register ..	521,558	June 19	1441	335	67	1490
Thompson, Robert J., Grandin, Mo. Jack ..	511,867	Jan. 2	195	48	66	41
Thompson, Robert J., Grandin, Mo. Metal-shears ..	530,059	Nov. 27	2742	658	69	1198
Thompson, Robert R., Bloomington, Ill. Mattress-stuffing machine ..	520,170	May 22	2169	527 } 528 } 529 }	67 }	982 }
Thompson, Robert W., Cleveland, Ohio. Ice-cutting trolley ..	518,015	Apr. 10	1001	251	67	201
Thompson, Thomas. (See Brulé, Edward, assignor.)						
Thompson, Thomas J. (See Priestone, Samuel L., assignor.)						
Thompson, Thomas J., Chicago, Ill., assignor to J. M. McDermid. Annunciator ..	521,144	June 5	694	162	67	1321
Thompson, Ulysses G., and C. Wain, Oneida, Ohio. Fence-post ..	525,433	Sept. 4	195	49	68	1187
Thompson, William, et al. (See Austin, William H., assignor.)						
Thompson, William, Chicago, Ill. Book-cover ..	520,171	May 22	2171	529	67	983
Thompson, William E. (See Alexander and Thompson.)						
Thompson, William H., East Stroudsburg, Pa. Key-register ..	527,351	Oct. 9	1103	269	69	219
Thompson, William H., assignor to J. S. W. Thompson, Morristown, N. J. Roller-bearing for wheels ..	515,178	Feb. 20	1972	491	66	1256
Thompson, William P. (See Van Gelder and Thompson.)						
Thompson, William P., Liverpool, and P. Van Gelder, Sowerby Bridge, England; said Van Gelder assignor to said Thompson. Dust-collector ..	522,769	July 10	1042	257	68	212
Thompson, Wilson, St. Louis, Mo., assignor of two-thirds to H. C. Mosher, Galesburg, Ill., and J. S. Beckwith, Dunlap, Tenn. Kitchen-cabinet ..	527,030	Oct. 2	589	143	69	111
Thoms, Ernest L., Ashby, Minn. Draft-equalizer ..	525,873	Sept. 11	981	220	68	1342
Thomsen, Max, assignor to M. Thomsen Manufacturing Company, Chicago, Ill. Curling-iron ..	527,465	Oct. 16	1306	319	69	273
Thomsen, Max, assignor to M. Thomsen Manufacturing Company, Chicago, Ill. Curling-iron ..	527,466	Oct. 16	1307	319	69	273
Thomson, Alexander, Fitchburg, Mass. Hame-hook ..	521,901	June 26	2039	491	67	1620
Thomson Electric Welding Company. (See Lemp, Hermann, assignor.)						
Thomson Electric Welding Company. (See Lemp and Anderson, assignors.)						
Thomson Electric Welding Company. (See Lemp and Moody, assignors.)						
Thomson Electric Welding Company. (See Lemp, Anderson, and Landmann, assignors.)						
Thomson Electric Welding Company. (See Thomson and Harthan, assignors.)						
Thomson, Elihu, Lynn, Mass. Electric furnace ..	513,602	Jan. 30	3130	768 } 769 }	66 }	724 }
Thomson, Elihu, Swampscott, Mass. Electric meter ..	520,811	June 5	92	21	67	1215
Thomson, Elihu, Swampscott, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric-railway system ..	516,666	Mar. 20	1554	370	66	1775
Thomson, Elihu, Swampscott, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Constructing commutators for dynamos or motors ..	516,845	Mar. 20	1842	436	66	1828

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Thomson, Elihu, Swampscott, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Regulation of alternating currents.....	516,846	Mar. 20	1844	437	66	1829
Thomson, Elihu, Swampscott, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Means for regulating alternating currents.....	516,847	Mar. 20	1846	437	66	1829
Thomson, Elihu, Swampscott, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Armature for dynamo-electric machines.....	518,290	Apr. 17	1474	368	67	302
Thomson, Elihu, Swampscott, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Means for preventing arcing in electric-power stations.....	520,809	June 5	87	20	67	1214
Thomson, Elihu, Swampscott, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric reciprocating motor.....	520,810	June 5	90	21	67	1214
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. System of electrical distribution.....	519,976	May 1	237	56	67	581
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electro-expansion device.....	523,695	July 31	2344	655	68	555
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric-lighting system and apparatus.....	525,369	Sept. 4	86	23	68	1166
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric motor.....	526,169	Sept. 18	1471	343	68	1443
Thomson, Elihu, Lynn, Mass., assignor to Thomson-Houston Electric Company, of Connecticut. Electric transformer.....	528,188	Oct. 30	2550	618	69	531
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Armature-winding.....	516,848	Mar. 20	1843	438	66	1829
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Mode of cooling electric motors.....	518,291	Apr. 17	1475	365 369	67	302
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electric meter.....	521,655	June 19	1661	390	67	1531
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Commutator for dynamo-electric machines.....	523,019	July 17	1460	363	68	307
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company, of New York. Electric-arc lamp.....	525,035	Aug. 28	1844	450	68	1045
Thomson, Elihu, Swampscott, assignor to General Electric Company, Boston, Mass. Alternating-current electric motor.....	516,849	Mar. 20	1849	438	66	1830
Thomson, Elihu, Swampscott, assignor to General Electric Company, Boston, Mass. Electrical transformer.....	516,850	Mar. 20	1851	438	66	1830
Thomson, Elihu, Swampscott, assignor to General Electric Company, Boston, Mass. Meter for recording measurements of electric power.....	521,684	June 19	1660	390	67	1531
Thomson, Elihu, Swampscott, assignor to General Electric Company, Boston, Mass. Alternating-current dynamo-electric machine.....	522,241	July 3	113	27	68	22
Thomson, Elihu, Swampscott, assignor to General Electric Company, Boston, Mass. Current-interrupter for high-potential circuits.....	522,865	July 10	1177	293	68	238
Thomson, Elihu, Swampscott, assignor to General Electric Company, Boston, Mass. Dynamo-electric machine.....	523,696	July 31	2645	656	68	555
Thomson, Elihu, Lynn, assignor to General Electric Company, Boston, Mass. Electric-arc lamp.....	525,034	Aug. 28	1841	450	68	1044
Thomson, Elihu, Swampscott, and C. E. Harthan, Lynn, Mass., assignors to Thomson Electric Welding Company, of Maine. Chain-making machine.....	512,848	Jan. 16	1888	446 447 448	66	384
Thomson, Elihu, and E. W. Rice, Jr., Swampscott, Mass., assignors to General Electric Company, of New York. Means for neutralizing self-induction in alternating circuits.....	513,349	Jan. 23	2685	651 652	66	606
Thomson, Elihu, Swampscott, and E. W. Rice, Jr., Lynn, Mass., assignors to Thomson-Houston Electric Company, of Connecticut. Electric incandescent lamp.....	529,429	Nov. 20	1637	389	69	984
Thomson, Henry C., Boston, Mass., assignor to Electric Gas Lighting Company, of Maine. Electric annunciator.....	525,874	Sept. 11	982	220	68	1342
Thomson, Henry C., and G. J. Galbraith, Boston, Mass., assignors to Electric Gas Lighting Company, of Maine. Automatic set-back annunciator.....	529,144	Nov. 13	1115	270	69	869
Thomson-Houston Electric Company. (See Bassett, Norman C., assignor.)						
Thomson-Houston Electric Company. (See Blackwell, Francis O., assignor.)						
Thomson-Houston Electric Company. (See Blackwell, Josiah L., assignor.)						
Thomson-Houston Electric Company. (See Ekström, Axel, assignor.)						
Thomson-Houston Electric Company. (See Fiske, Jonathan P. B., assignor.)						
Thomson-Houston Electric Company. (See Haskins, Caryl D., assignor.)						
Thomson-Houston Electric Company. (See Hopkins and Stebbins, assignors.)						
Thomson-Houston Electric Company. (See Hunter, Rudolph M., assignor.)						
Thomson-Houston Electric Company. (See Jones, Arthur W., assignor.)						
Thomson-Houston Electric Company. (See Lemp, Hermann, assignor.)						
Thomson-Houston Electric Company. (See Mix, Edgar W., assignor.)						
Thomson-Houston Electric Company. (See Parsball, Horace F., assignor.)						
Thomson-Houston Electric Company. (See Raffard, Nicolas J., assignor.)						
Thomson-Houston Electric Company. (See Rice, Edwin W., Jr., assignor.)						
Thomson-Houston Electric Company. (See Riddell, John, assignor.)						
Thomson-Houston Electric Company. (See Spaulding, Hollon C., assignor.)						
Thomson-Houston Electric Company. (See Thomson, Elihu, assignor.)						
Thomson-Houston Electric Company. (See Thomson and Rice, assignors.)						
Thomson-Houston Electric Company. (See Van Depoele, Charles J., assignor.)						
Thomson Hydraulic Company. (See Thomson, John, assignor.)						
Thomson, Hugh, Kew, near Melbourne, Victoria. Fire plug or hydrant.....	515,410	Feb. 27	2376	589	66	1343
Thomson, Hugh, Kew, Victoria. Street-hydrant.....	523,492	July 24	2297	578	68	474
Thomson, Hugh, Kew, Victoria. Tool for cutting recesses on the inside of fire-plug casings.....	523,493	July 24	2299	579	68	474
Thomson, John, Brooklyn, N. Y. Disk water-meter.....	514,171	Feb. 6	320	76	66	913
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Newark, N. J. Proportional water-meter.....	512,632	Jan. 9	1487	359	66	292
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Newark, N. J. Die for the manufacture of crown gear-wheels.....	520,194	May 22	2208	538	67	990
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Newark, N. J. Disk water-meter.....	520,195	May 22	2210	533 539	67	990
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Newark, N. J. Manufacturing hard-rubber articles.....	520,196	May 22	2213	539	67	991
Thomson, John, Brooklyn, N. Y., assignor to Neptune Meter Company, Newark, N. J. Disk water-meter.....	520,197	May 22	2215	539 540	67	991
Thomson, John, Brooklyn, assignor to Neptune Meter Company, New York, N. Y., and Newark, N. J. Proportional water-meter.....	515,378	Feb. 27	2328	578	66	1335
Thomson, John, Brooklyn, N. Y., assignor to Thomson Hydraulic Company, Newark, N. J. Compound intermittent water-meter.....	512,849	Jan. 16	1900	448 449	66	386

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Thomson, Julius L. (See Hartmann and Thomson.)						
Thomson, Robert, assignor of one-fourth to J. Norwood, Brooklyn, N. Y. Car-fender.	524,918	Aug. 21	1618	397	68	986
Thomson, Robert W., Lynn, Mass., assignor to Globe Button-Hole Machine Company, Boston, Mass., and Kittery, Me. Sewing-machine.	521,301	June 12	977	231	67	1387
Thomson, William, Glasgow, Scotland. Apparatus for measuring and recording electric currents.	521,394	June 12	1136	268 269	67	1419
Thomson, William, Glasgow, Scotland. Valve for water, steam, or other liquids or gases.	522,170	June 26	2519	605	67	1708
Thomson, William B., assignor of one-half to S. Heermans, Chicago, Ill. Telephone-call recorder.	512,413	Jan. 9	1135	275 276 277	66	226
Thorn, Timothy S., Plainfield, N. J. Toy.	530,138	Dec. 4	104	27	69	1234
Thorndyke, Thomas B., New York, N. Y. Dancing toy.	512,589	Jan. 9	1427	344	66	128
Thorne, William V. S., St. Paul, Minn. Car-coupling.	512,765	Jan. 16	1754	416	66	359
Thornhill, George T., Lochbuie, Scotland. Cartridge-stop for magazine-guns.	526,272	Sept. 18	1645	387	68	1477
Thornton, Albert O., Providence, R. I. Door-hanger.	530,366	Dec. 4	514	127	69	1309
Thornton, Claude L., New York, N. Y. Razor-sharpening machine.	525,240	Aug. 25	2200	536	68	1106
Thornton, James, and A. B. Woodard, Wellsville, N. Y. Liquid-containing vessel.	528,748	Nov. 6	395	94	69	718
Thornton, John E., and E. Pickard, Altrincham, England. Focal-plane shutter.	529,820	Nov. 27	2308	549 550	69	1116
Thornton, John E., and E. Pickard, Altrincham, England. Photographic-plate holder.	531,012	Dec. 18	1631	387	69	1542
Thorp, Thomas J., Forest Grove, Oreg. Clutch.	521,059	June 5	551	129	67	1296
Thorpe, Robert H., London, England. Apparatus for regulating hydraulic power.	523,419	July 24	2149	539 540	68	450
Thon, Frank. (See Sudheimer, Thon, and Richter.)						
Thrasher, Benton C., assignor of five-eighths to W. B. Newton and A. N. Ewing, Vernon, Tex. Motor.	512,633	Jan. 9	1489	359 360	66	293
Threefoot, H. Marshall, et al. (See Page, Charles W. and O. P., assignors.)						
Thrift, William H., Dubuque, Iowa. Light-concentrator for dentists, surgeons, or others.	519,799	May 15	1528	372 373	67	851
Throop, Ludentia. (See Kions, Jasper D., assignor.)						
Thum, Hugo. (See Thum, Otto and H.)						
Thum, Otto and H., Grand Rapids, Mich. Fly-paper holder.	523,573	Nov. 6	88	22	69	662
Thum, Otto and W., Grand Rapids, Mich. Sticky fly-paper.	520,715	May 29	3088	747	67	1170
Thum, William. (See Thum, Otto and W.)						
Thunhorst, Frederick J., assignor of one-half to C. J. Weitershausen, Allegheny, Pa. Fire-alarm apparatus.	520,547	May 29	2797	676	67	1115
Thury, René, assignor to Compagnie de l'Industrie Électrique, Geneva, Switzerland. Dynamo electric machine.	529,145	Nov. 13	1117	270	69	870
Thury, René, assignor to Compagnie de l'Industrie Électrique, Geneva, Switzerland. Regulating device.	529,570	Nov. 20	1895	451	69	1030
Thurston, E. L., trustee. (See Forth and Glenzer, assignors.)						
Thurston, Ernest A., Placerville, Idaho. Boot or shoe.	524,620	Aug. 14	1126	277	68	885
Thurwanger, William J., Philadelphia, Pa. Sliding ladder.	514,790	Feb. 13	1362	340 341	66	1128
Thuston, Eli A. (See Hays and Thuston.)						
Thuston, Eli A., Avondale, Ala., assignor of one-half to J. M. Bradley. Feed-water heater.	512,634	Jan. 9	1491	360	66	293
Thwaite, Benjamin H., London, England. High-temperature furnace for steel-melting or analogous purposes.	515,452	Feb. 27	2443	605 606	66	1356
Thyll, Arthur, assignor to Electric Cutter Company, New York, N. Y. Cloth-cutting machine.	527,224	Oct. 9	892	216	69	181
Thyll, Arthur K., assignor to Electric Cutter Company, New York, N. Y. Cloth-cutting machine.	513,741	Jan. 30	3364	830	66	766
Tibbals, Halsey J. (See Purvis, William B., assignor.)						
Tichenor, Herbert W., Irvington, N. J. Self-feeding target-trap.	519,512	May 8	1028	249	67	746
Tickner, Herbert F., and A. Butler, Mason, Mich. Mold for water-tanks.	518,292	Apr. 17	1476	369	67	303
Tidball, Frank W. (See Richardson, Horbert, assignor.)						
Tidland, William H., Nicollet, Minn. Grading and ditching machine.	513,905	Apr. 24	2539	628	67	509
Tiefel, Charles G., assignor to G. C. Schulz, Bloomington, Ill. Toy parachute.	517,671	Apr. 3	438	105	67	84
Tiemann, Gustav G., San Francisco, Cal. Purifying saccharine juices.	513,538	Apr. 17	1909	...	67	380
Tierney, Daniel D., Ione, Cal. Bale-tie twister and stretcher.	516,712	Mar. 20	1630	388	66	1758
Tierney, Thomas, Foxborough, Mass. Combined wrench and oiler.	528,574	Nov. 6	90	23	69	662
Tiffany, Eli, Bennington, Vt. Stop-motion for knitting-machines.	521,190	June 12	777	182	67	1351
Tiffany, Eli, Bennington, Vt. Stop-motion for straight-knitting machines.	521,277	June 12	925	219	67	1378
Tiffany, Eli, Bennington, Vt., and G. E. Parker, Amsterdam, N. Y., assignors to E. Tiffany & Sons, Bennington, Vt. Quarter-saver for flat-rib knitting-machines.	521,191	June 12	779	182	67	1351
Tiffany, Ernest A., Dunmore, Pa. Preventing draft in coal-mines.	530,463	Dec. 4	667	165	69	1337
Tiffany, George S., Tecumseh, Mich. Clay-working mill.	518,636	Apr. 24	2074	516 517	67	424
Tiffany, Henry C., et al. (See Schad, Barnhard, assignor.)						
Tiffany, Lansing C., Springfield, Ill. Artificial frog for horses' feet.	511,918	Jan. 2	326	76	66	63
Tiffany & Sons, Eli. (See Tiffany and Parker, assignors.)						
Tigner, Hope H., Stinson, Ga. Harrow.	516,412	Mar. 13	1114	264	66	1676
Tilden, George T., Milton, Mass. Dwelling.	514,789	Feb. 13	1359	339 340	66	1127
Tileston, Henry M., Kansas City, Mo. Ventilated eye-guard.	513,603	Jan. 30	3133	769	66	724
Tilford, George H., and A. F. Bennett, Providence, R. I. Attachment for holding ear-jewels.	521,192	June 12	781	183	67	1352
Tilghman, Benjamin C., Jr., Philadelphia, Pa. Method of and apparatus for detecting and measuring inflammable gases.	524,361	Aug. 14	689	168	68	803
Tillinghast, Frederick. (See Van Guysling, Walter F., assignor.)						
Tillinghast, Henry G., Baltimore, Md. Soil or other pipe plug.	521,835	June 26	1921	460	67	1596
Tillinghast Manufacturing Company. (See Tillinghast, Pardon W., assignor.)						
Tillinghast, Pardon W., Providence, R. I., assignor to Security Pneumatic Tire Company, Jersey City, N. J. Device for repairing pneumatic tires.	516,691	Mar. 20	1594	380	66	1782
Tillinghast, Pardon W., Providence, R. I., assignor to Tillinghast Manufacturing Company, Providence, R. I., and Jersey City, N. J. Pneumatic tire and wheel-rim.	528,451	Oct. 30	3008	727	69	612
Tillinghast, Pardon W., and F. Mallalien, Providence, R. I. Pneumatic tire.	521,740	June 19	1749	415	67	1549
Tillmann & Bendel. (See Bain, Robert B., assignor.)						
Tillou, Walter G. (See Dodge, Tillou, and Richards.)						
Tilmann, Ernest, assignor of one-half to C. K. Lexow, New York, N. Y. Magneto-electric machine.	523,247	July 17	1866	469	68	381
Tilmann, Ernest, assignor of one-half to C. K. Lexow, New York, N. Y. Reflector for electric or other lamps.	521,075	Aug. 7	178	40	68	694

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Tilmann, Ernest, assignor of one-half to C. K. Lexow, New York, N. Y. Reflector for lamps.	524,076	Aug. 7	180	41	68	694
Tilston, Edward, Manchester, England. Pedal for velocipedes.	512,525	Jan. 9	1331	321	66	263
Tilton, Edwin B., Brooklyn, N. Y. Manifold device.	530,806	Dec. 11	1280	309	69	1464
Tilton, James B., Fresno, Cal., assignor of one-third to A. M. Jones, Detroit, Mich. Street-sweeper.	517,709	Apr. 3	498	119 120	67	96
Timberlake, John B., Jackson, Mich. Supported dish.	514,205	Feb. 6	390	93	66	927
Timbrell, George H. W., and J. C. Fyfe, said Fyfe assignor and said Timbrell assignor of one-eighth of his right to L. F. Kimball and S. W. Wright, Denver, Colo., and J. White, Cleveland, Ohio. Incandescent electric lamp.	514,739	Feb. 13	1282	319	66	1112
Timby, Theodore R., Washington, D. C. Apparatus for aging wines or distilled liquors.	527,564	Oct. 16	1457	354 355	69	299
Timm, Charles, Morgan Park, assignor to Union Manufacturing and Plating Company, Chicago, Ill. Sprocket-wheel.	519,781	May 15	1496	362	67	844
Timm, Henry, New York, N. Y. Voltaic battery.	522,127	June 26	2433	587	67	1692
Timmermann, William E., Chicago, Ill. Puzzle.	526,467	Sept. 25	2020	481	68	1559
Timmins, William, Wilsonville, Nebr. Hame-tug.	519,030	May 1	150	36	67	565
Timmis, William, Pittsburg, Pa. Receptacle or tank for the storage of compressed air, gas, &c.	517,777	Apr. 3	609	151	67	118
Timms, James, assignor to Buckeye Automatic Car Coupler Company, Columbus, Ohio. Railway-car.	514,634	Feb. 13	1102	274	66	1078
Timms, James, assignor to Buckeye Automatic Car Coupler Company, Columbus, Ohio. Draft-iron for car-couplings.	530,211	Dec. 4	238	59	69	1259
Tinder, James H. (See McNeill and Tinder.)						
Tinglöt, Carl, Boston, Mass. Wrench.	523,020	July 17	1462	364	68	307
Tinker, Fred W. (See Tinker, Hollis W., assignor.)						
Tinker, Hollis W., Nashua, N. H., assignor of one-half to F. W. Tinker, Springfield, Mass. Locomotive-cab window or door.	516,244	Mar. 13	836	196	66	1624
Tinker, Hollis W., Nashua, N. H., assignor of one-half to F. W. Tinker, Springfield, Mass. Locomotive-cab or other window or door.	516,245	Mar. 13	838	196	66	1625
Tinklepaugh, Jacob N., Kalkaska, Mich. Dish-cleaner.	524,621	Aug. 14	1127	277	68	885
Tinley, James F., Burden, N. Y. Check-valve.	514,098	Feb. 6	193	44	66	891
Tinnerholm, August F., and C. F. Peterson, Schenectady, N. Y., assignors to General Electric Company, Boston, Mass. Manufacturing insulating material.	522,242	July 3	115	27	68	22
Tinney, Isaac G., Youngstown, Ohio. Nut and bolt lock.	518,974	May 1	61	16	67	547
Tinsley, Joseph B., Anthony, Kans. Turn-table.	521,060	June 5	553	129	67	1297
Tintoré, Ignacio M., London, England. Rotary hair-brushing machine.	528,044	Oct. 23	2300	554 555	69	470
Tipson, William A., San Francisco, Cal., assignor to Pacific Asphaltum Pipe Company, of California. Pipe-joining device.	518,556	Apr. 17	1935	478	67	385
Tipson, William A., San Francisco, Cal., assignor to Pacific Asphaltum Pipe Company, of California. Removing artificial pipe from mandrels.	518,557	Apr. 17	1936	478	67	385
Tipson, William A., San Francisco, Cal., assignor to Pacific Asphaltum Pipe Company, of California. Pipe-making machine.	518,558	Apr. 17	1937	479	67	385
Tirrell, Jacob P. (See Keith, Tirrell, and Willard.)						
Tirrell, Jacob P., Boston, Mass., and J. W. Willard, Pittsford, Vt., assignors to Columbian Automatic Vending-Machine Company, of Maine. Coin-controlled vending-machine.	523,384	July 24	2087	525 526	68	439
Tirrell, Jacob P., Boston, Mass., and J. W. Willard, Pittsford, Vt., assignors to Columbian Automatic Vending-Machine Company, of Maine. Coin-controlled vending-machine.	523,385	July 24	2090	526 527	68	440
Tisch, L., et al. (See Marquart, Rudolf, assignor.)						
Tisdale, Charles D., Boston, Mass., assignor to himself, and J. D. Gould, New York, N. Y. Closed conduit for electric railways.	526,468	Sept. 25	2021	482	68	1560
Tisdale, Charles D., Boston, assignor to himself, J. D. Gould, East Boston, and C. Healey and J. E. Jenkins, Lynn, Mass. Electric-railway system.	517,940	Apr. 10	855	215	67	178
Tisdale, Charles D., Boston, Mass., assignor of five-sixths to J. D. Gould, New York, N. Y., C. Healey, and J. E. Jenkins, Lynn, Mass. Electric-railway system.	518,293	Apr. 17	1477	369	67	303
Tisdell, Abner G., Brooklyn, assignor of one-half to J. L. Levy, New York, N. Y. Photographic-camera shutter.	520,972	June 5	394	95, 96	67	1269
Titcomb, George H., Boston, Mass. Dredging-machine.	515,029	Feb. 20	1736	438	66	1212
Titcomb, George H., Boston, Mass. Dredging-machine.	515,379	Feb. 27	2330	578 579	66	1335
Titcomb, George H., Boston, Mass. Dredging-machine.	516,065	Mar. 6	541	126	66	1553
Titcomb, George H., assignor to United States Standard Heating Company, Boston, Mass. Steam-heating system for railway-trains.	522,661	July 10	867	214	68	183
Titcomb, John W. (See Pearsons, Fillmore A., assignor.)						
Titsworth, David E., et al. (See Brooks, John, assignor.)						
Titsworth, Joseph M., et al. (See Brooks, John, assignor.)						
Titus-Gardner Paper and Manufacturing Company. (See Thompson, Edward, assignor.)						
Titus, John C., assignor of one-half to W. C. Schmidt, New Bremen, Ohio. Dry-kiln for pottery.	520,869	June 5	208	47	67	1235
Toal, Hugh. (See Lowther, Toal, and Hay.)						
Tobener, Mary, Gold Hill, Nev. Fabric-folding attachment for sewing-machines.	511,977	Jan. 2	419	97	66	80
Tobey, Fred W., Grand Rapids, Mich. Combined desk support and bing.	520,462	May 29	2655	642	67	1090
Tobey, Fred W., and D. W. Tower, assignors to Grand Rapids Brass Company, Grand Rapids, Mich. Mirror-adjusting device.	520,548	May 29	2798	676	67	1116
Tobey, William L., Boston, Mass. Street-sweeper.	524,875	Aug. 21	1547	379	68	974
Tobey, William L., assignor to Universal Street Sweeping Machine Company, Boston, Mass. Street-sweeper.	525,751	Sept. 11	745	173	68	1300
Tobias, Theodore, Pierpoint, S. D. School seat and desk.	518,166	Apr. 10	1246	312	67	242
Tobin, James, Indianapolis, Ind. Car-fender.	521,741	June 19	1752	416	67	1540
Tobin, John, assignor to John Tobin Manufacturing Company, Newark, N. J. Coffee-pot.	526,331	Sept. 18	1752	415	68	1499
Todd, Albert H., Senatobia, Miss. Lamp-lighter.	521,516	Sept. 19	1375	320	67	1479
Todd, Albert M., Kalamazoo, Mich. Process of and apparatus for distilling and refining volatile substances and essential oils.	515,889	Mar. 6	245	58	66	1499
Todd Cotton Harvester Company. (See Todd, George N., assignor.)						
Todd, George N., Chicago, Ill., assignor to Todd Cotton Harvester Company. Cotton-harvester.	529,430	Nov. 20	1639	390 391	69	984
Todd, Marquis J., Buffalo, N. Y. Spring-tooth harrow.	516,951	Mar. 20	2022	478 479	66	1862
Todd, Marquis J., Buffalo, N. Y. Spring-tooth harrow.	517,672	Apr. 3	438	106	67	84
Todd, Marquis J., assignor to Pitts Agricultural Works, Buffalo, N. Y. Spring-tooth harrow.	513,372	Jan. 23	2723	661	66	613
Todd, Marquis J., assignor to Pitts Agricultural Works, Buffalo, N. Y. Harrow.	527,352	Oct. 9	1106	270	69	219
Todd, William A., New York, N. Y. Gas-stove.	530,139	Dec. 4	106	27	69	1234

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Toft, Hans J. H., Copenhagen, Denmark. D. vice for stopping unruly horses.....	514,100	Feb. 6	196	45	(6	891
Tolad, Marcellus R., and J. F. Conkey, San Jacinto, Cal. Blotter attachment for check-books.....	526,121	Sept. 18	1392	324	68	1429
Tolar, James W., Wilksburg, and B. D. Laugston, Goss, Miss. Car-coupling.....	524,919	Aug. 21	1621	397	68	986
Toledo Machine and Tool Company. (See Danielson, Gustave F., assignor.)						
Toles, Wallace H. (See Toles, Wilford C. and W. H.)						
Toles, Wilford C. and W. H., Chicago, Ill. Rapid-acting vise.....	528,190	Oct. 30	2557	619	69	531
Tollner, Charles, Pulaski, N. Y. Spool-box.....	526,876	Oct. 2	345	85	69	65
Tollner, Hugo, Brooklyn, N. Y. Book-carrier.....	530,291	Dec. 4	3-2	94	69	1285
Tollner, Rudolph E., and C. N. Potter, Brooklyn, N. Y. Pneumatic tire.....	517,312	Mar. 27	2647	622	66	1998
Tolman, Edward K., Worcester, Mass. Registering and canceling ballot-box.....	523,191	Oct. 30	2559	620	69	532
Tolman, Elijah, Jr., assignor of one-fourth to E. Tolman, Taunton, Mass. Barber's shears.....	517,969	Apr. 10	916	229	67	188
Tolman, George H. C., New Haven, Conn. Coach-lamp.....	526,877	Oct. 2	346	86	69	65
Tolman, Martha A., administratrix. (See Howe, Patrick, assignor.)						
Tolmie, George, Carbon, Wyo. Tent.....	513,841	Jan. 30	3514	865	66	797
Tom, Edward A. (See Tom, Joseph C. and E. A.)						
Tom, Joseph C. and E. A., Pontotoc, Tex. Pump.....	517,902	Apr. 10	795	200	67	167
Tomb, Frank B., et al. (See Curry, James H., assignor.)						
Tomer, John S., Pittsburg, Pa. Rail-cleaner and car-tender.....	530,207	Dec. 11	1281	309	69	1464
Tomkins, Edward B., et al. (See Marquart, Rudolf, assignor.)						
Tomkins, Mark H., New York, N. Y. Indicating-machine.....	523,735	July 31	2719	{ 673 674 }	68	568
Tomlinson, Charles B., et al. (See Grieser, Henry, assignor.)						
Tomlinson, James, Granby, Canada. Apparatus for dispensing liquors, &c.....	526,591	Sept. 25	2199	526	68	1593
Tomlinson, James, Detroit, Mich. Pickle-barrel.....	531,603	Dec. 25	2688	645	69	1756
Tomlinson, James, Detroit, Mich. Veneer-coiling machine.....	531,604	Dec. 25	2690	645	69	1756
Tomlinson, James A. (See Milligan and Tomlinson.)						
Tomlinson, John D., Rochdale, England. Machine for raising the surface of textile fabrics.....	526,421	Sept. 25	1941	463	68	1546
Tomlinson, Royal D., New York, N. Y. Damper-regulator for steam-boilers.....	515,030	Feb. 20	1738	439	66	1212
Tompkins, Albert and I. Troy, N. Y. Adjustable supporting device for knitting-machine presser-wheels, &c.....	513,157	Jan. 23	2381	514	66	547
Tompkins, Charles H. (See Palmer, Alfred W., assignor.)						
Tompkins, Edward B., et al. (See Marquart, Rudolf, assignor.)						
Tompkins, George A., Cortland, N. Y. Manufacturing dental plates.....	517,151	Mar. 27	2376	562	66	1946
Tompkins, Ida G. (See Tompkins, Kilbourne, assignor.)						
Tompkins, Ira. (See Tompkins, Albert and I.)						
Tompkins, Kilbourne, assignor to I. G. Tompkins, New York, N. Y. Coin pocket-book.....	522,809	July 10	1101	271	68	224
Tompkins, William M., assignor of one-half to A. H. Manwaren, Philadelphia, Pa. Spark shield or protector for electric-arc lamps.....	525,929	Sept. 11	1061	241	68	1356
Tomsa, Václav, Prague, Austria-Hungary. Mechanical movement.....	514,791	Feb. 13	1363	{ 341 342 }	66	1128
Tomsa, Václav, Prague, Austria-Hungary. Shuttle and needle operating mechanism.....	514,792	Feb. 13	1365	{ 342 343 }	66	1129
Tonge, John, et al. (See Williams, Frederick W., assignor.)						
Tongen, A. H., et al. (See Roehm, William H., assignor.)						
Tonk Manufacturing Company. (See York, Phineas H., assignor.)						
Tonkin, John J., Oswego, N. Y. Steam-boiler.....	526,062	Sept. 18	1285	{ 297 298 }	68	1410
Tonks, Joseph, Wilkes-Barré, Pa. Breakdown gun.....	514,574	Feb. 13	996	251	66	1058
Tonner, William E. (See Lindsay, Towner, and Lowmiller.)						
Tonns, Lewis N., Erlastina, assignor of two-thirds to E. H. Hall, Brooklyn, and G. H. Allen, New York, N. Y. Marine vessel.....	522,630	July 10	791	198	68	169
Toobe, Heinrich L. B. (See Praunegger, Ferdinand, assignor.)						
Toohy, Cornelius, San Francisco, Cal. Tea chest and attachment.....	526,511	Sept. 25	20-2	496	68	1572
Toole, Alpha W. (See Miller, William V., assignor.)						
Toole, James E., Northumberland, Pa. Conduit electric railway.....	527,301	Oct. 9	1025	249	69	204
Toomey, Samuel, Canal Dover, Ohio. Sully.....	523,631	July 10	791	198	68	169
Topley, Willis K., South Williamsport, Pa. Decarbonizing steel.....	523,214	Oct. 30	2603	.....	69	539
Toppan, Frank W. (See Gilliland and Toppan.)						
Torbert, John B., et al. (See Hersh, Elmer E., assignor.)						
Torchiani, Harry, New York, N. Y. Pitching-machine.....	514,172	Feb. 6	322	77	66	913
Torchiani, Harry, New York, N. Y. Apparatus for racking beer.....	519,513	May 8	1031	249	67	747
Torkelson, Reinhard T., assignor of one-half to J. C. Speirs, Worcester, Mass. Bicycle-saddle.....	523,386	July 24	2093	527	68	440
Tornaghi, Angelo, Sydney, New South Wales. Apparatus for amalgamating and concentrating.....	513,158	Jan. 23	2382	575	66	547
Tornaghi, Angelo, Sydney, New South Wales. Apparatus for pulverizing and amalgamating.....	515,453	Feb. 27	2445	606	66	1356
Tornblom, Emil, Brooklyn, N. Y. Combined seat and seesaw.....	514,521	Feb. 13	913	231	66	1042
Torrey, Charles L. (See Torrey, Silas and C. L.)						
Torrey, Jay L., Embar, Wyo. Branding-iron.....	520,503	May 29	2726	661	67	1102
Torrey, Jay L., Embar, Wyo. Saddle-blanket.....	530,864	Dec. 11	1370	327	69	1480
Torrey, Silas and C. L., assignors of one-fourth to G. K. Detwiler, Toledo, Ohio. Steam-engine.....	519,850	May 15	1605	392	67	865
Torsch, Edward L., assignor to Torsch & Lee, Baltimore, Md. Seal.....	521,427	June 12	1198	284	67	1430
Torsch & Lee. (See Torsch, Edward L., assignor.)						
Totman, John J., assignor of one-half to E. G. Wheeler, Amsterdam, N. Y. Sash-balance.....	519,823	May 15	1562	382	67	858
Totten, Charles A. L., Milford, Conn. Apparatus for playing games.....	526,469	Sept. 25	2022	4-2	68	1560
Totten, Joseph, Hillburn, N. Y. Time lock for money-drawers.....	531,346	Dec. 25	2242	535	69	1669
Totten, Robert D., et al. (See Barr, John U., Jr., assignor.)						
Touchebstone, James N. (See Click, Washington B. and I. A., assignors.)						
Toulmin, Charles T., New York, N. Y. Water heater or boiler.....	521,995	June 26	2231	536	67	1654
Touloune, Bernard, and J. Delorieux, San Francisco, Cal. Olive-mill.....	527,905	Oct. 23	2040	489	69	423
Toulousse, Paul, assignor to E. Crégu, La Bridoire, France. Wire-gauze for paper-machines.....	530,906	June 5	279	67	67	1248
Tournel, Léon D., Paris, France. Vitreous mosaic.....	523,3-7	July 24	2094	.....	68	440
Tou ley, Edgar M., Jamestown, N. Y. Trolley.....	520,973	June 5	400	97	67	1270
Touzellin, Emmanuel C. B., Argenteuil, France. Windmill.....	527,738	Oct. 16	1742	421	69	352
Tower, Clinton A., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling.....	52-092	June 5	609	144	67	1307
Tower, Daniel L., Brooklyn, N. Y. Type-writing machine.....	520,172	May 22	2173	{ 529 530 }	67	923
Tower, Daniel W. (See Tobey and Tower.)						
Tower, Daniel W., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Wardrobe-hook.....	525,752	Sept. 11	748	174	68	1300

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Tower, George A., Richmond, Va. Sealing device for valves, &c.	516,851	Mar. 20	1833	438	66	1830
Tower, George A., Richmond, Va. Trousers clasp or guard	523,557	July 24	2399	601	68	494
Tower, John J., Brooklyn, N. Y. Vise	530,733	Dec. 11	1164	284	69	1441
Tower, Orville R., North Greenfield, Wis. Overshoe-securer	527,066	Oct. 9	668	163	69	1110
Towne, Edgar B. and F. S., Kingston, N. Y. Car-fender	530,140	Dec. 4	106	28	69	1234
Towne, Franklin S. (See Towne, Edgar B. and F. S.)						
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Convertible bearing for screw pulley-blocks	512,071	Jan. 2	571	135	66	109
Towne, Henry R., Stamford, Conn., assignor to Safety Car Heating and Lighting Company, of New Jersey. Apparatus for heating railway-cars	512,239	Jan. 2	840	204	66	159
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pawl-and-ratchet mechanism	530,734	Dec. 11	1169	284 285	69	1442
Townsend, Charles H., et al. (See Grisham, Wiley M., assignor.)						
Townsend, Cort., Apollo, Pa., assignor of one-half to E. E. Cline and M. F. Taylor, Canton, Ohio. Attachment for adjusting rolls of rolling-mills	523,296	July 17	1944	429	68	396
Townsend, Jonathan H. (See Davis, John F., assignor.)						
Townson, Morris S., Cleveland, Ohio, assignor to A. G. Wheeler, Chicago, Ill. Electric-railway conduit	515,179	Feb. 20	1973	492	66	1256
Toye, William H. R., assignor of one-half to G. N. Wright, Philadelphia, Pa. Fretted musical instrument	518,869	Apr. 24	2467	611	67	494
Toye, William H. R., Philadelphia, Pa., assignor to Simultaneous Chromogravure Printing Machine and Manufacturing Company, Camden, N. J. Multiple-color-printing machine	522,128	June 26	2439	587	67	1692
Toye, William H. R., Philadelphia, Pa., assignor to Simultaneous Chromogravure Printing Machine and Manufacturing Company, Camden, N. J. Registering attachment for printing-plates for printing-machines	522,129	June 26	2442	587	67	1693
Tracy, Edward A., Boston, Mass., assignor to American Wood Pulp Company, of Maine. Splint and splint fabric	522,947	July 10	1324	329	68	266
Tracy, James B. (See Chase and Tracy.)						
Tracy, Milton S., Glastonbury, Conn. Culinary vessel	517,673	Apr. 3	440	106	67	84
Tracy, Thomas E., Kansas City, Mo. Extension-cane rule	516,513	Mar. 13	1293	307	66	1709
Tracy, William P., Grand Rapids, Mich. Base for furniture	527,007	Oct. 2	548	131	69	104
Tragethon, Arne S., Kensett, Iowa. Brace and guide for windmill pump-rods	519,514	May 8	1032	250	67	747
Trainer, John W., Fort Wayne, Ind. Reed-organ	519,361	May 8	781	191	67	702
Trainer, John W., Fort Wayne, Ind. Reed-organ	527,467	Oct. 16	1368	319	69	273
Trakoder, Gregor, Pittsburg, Pa. Wrench	523,136	July 17	1668	418	68	346
Tralls, Leberecht, Dux, Austria-Hungary. Obtaining fertilizers from waste lyes	528,999	Nov. 13	871		69	825
Traner, G. H. (See Arch, Charles W., assignor.)						
Tranquilli, Raffaele, Rome, Italy. Fire-extinguishing apparatus	529,976	Nov. 27	2570	619	69	1164
Transue, Frank, et al. (See Blaine, George E., assignor.)						
Tranter, Benjamin, assignor of one-half to W. Burton, Brooklyn, N. Y. Car-fender	518,126	Apr. 10	1181	296	67	231
Traphagen, George W., assignor to C. E. Childs, L. S. Davis, P. P. Nichols, and J. E. Riley, Northampton, Mass. Forming dental plates	526,332	Sept. 18	1753	416	68	1499
Trapp, Edward A., Chicago, Ill. Dumping-car	513,446	Jan. 23	2842	698	66	636
Trapp, Edward A., Chicago, Ill. Dumping-car	513,447	Jan. 23	2846	698	66	636
Trapp, Edward A., New York, N. Y. Dumping-car	525,727	Sept. 11	708	163 164	68	1293
Trapp, Samuel M., assignor to Donau-Trapp Climax Gas Producer Company, Chicago, Ill. Regenerating-furnace	523,088	July 17	1554	390	68	326
Trapp, Samuel M., assignor to Donau-Trapp Climax Gas Producer Company, Chicago, Ill. Furnace	523,089	July 17	1557	390 391	68	326
Trask, Charles H., Lynn, Mass. Heel-trimming machine	521,770	June 19	1419	431 432	67	1559
Trask, Charles H., Lynn, Mass. Milling-machine	521,771	June 19	1823	433 434	67	1560
Trask, Charles H., Lynn, Mass. Grinding-machine	530,292	Dec. 4	384	94 95 96	69	1285
Trask, Henry C., Vienna, Me. Car-coupling	514,201	Feb. 6	542	133	66	955
Trann, Heinrich, Hamburg, Germany. Vulcanizing hard-rubber articles	528,264	Oct. 30	2646		69	556
Traut, Ezra H., Erie, Pa. Kitchen-cabinet	527,629	Oct. 16	1566	378	69	319
Traut & Hine Manufacturing Company. (See Adams, George E., assignor.)						
Traut, Justus A., Hartford, Conn. Clasp	511,820	Jan. 2	111	28	66	24
Traut, Justus A., New Britain, Conn. Plane	516,413	Mar. 13	1116	265	66	1676
Traut, Justus A., New Britain, Conn. Level	523,021	July 17	1463	364	68	307
Traut, Justus A., New Britain, Conn. Level	523,022	July 17	1466	364	68	308
Traut, Justus A., New Britain, Conn. Level	523,023	July 17	1467	364	68	308
Traut, Justus A., New Britain, Conn. Plane	528,829	Nov. 6	555	133	69	748
Traut, Justus A., and C. Bodmer, New Britain, Conn.; said Bodmer assignor to said Traut. Plane	515,063	Feb. 20	1787	451	66	1221
Traveler's Portfolio Company. (See Dozier, Lewis D., assignor.) (Reissue.)						
Traver, John H., Aspen, Colo. Pulverizing-machine	512,635	Jan. 9	1492	360	66	294
Travers, Herman R., and C. Petersen, Baltimore, assignors to J. E. Norwood, Sykesville, Md. Molder's flask	514,101	Feb. 6	196	45	66	891
Travis, William H., Philadelphia, Pa. Impression-hammer for type-writing machines	513,543	Jan. 30	3032	747	66	706
Treadway, William T. (See Atwood and Treadway.)						
Treat, Cornelius A. (See Shepard, Sylvander C., assignor.)						
Treat, Francis H., Chicago, Ill. Transfer-table for rolling-mills	516,460	Mar. 13	1198	287 288	66	1692
Treat, Francis H., Chicago, Ill. Steam-boiler	529,945	June 5	356	87	67	1262
Treiber, Jacob C., Beaver, Pa. Fireplace-heater	513,842	Jan. 30	3516	865	66	797
Treiber, Theodore R., assignor to D. A. Mudge, Chicago, Ill. Water-closet	524,655	Aug. 14	1177	229	68	895
Tremain, Charles W., Portland, Oreg. Steam-stamp	515,380	Feb. 27	2332	579	66	1335
Tremaine, Edward G. (See Reid, Samuel, assignor.)						
Tremblay, Eucher. (See Gale and Tremblay.)						
Tremmel, Leonard, Walton, N. Y. Cellar-window	523,137	July 17	1669	418	68	346
Trench, Charles, Boston, Mass. Oil-burner	520,093	May 22	2015	492	67	956
Trench, John T., Dublin, Ireland. Adjustable wrench	520,094	May 22	2016	492	67	957
Trenner, Alfred B., Cincinnati, Ohio. Safety-stop for cars	512,341	Jan. 9	1007	246	66	202
Trent, Eugene F., Jersey City, N. J. Lamp	519,851	May 15	1606	392 393	67	866
Trent, Eugene F., Jersey City, N. J. Lamp	519,852	May 15	1609	393	67	866
Trent, Eugene F., Jersey City, N. J. Lamp	519,853	May 15	1612	393	67	866
Trent, Eugene F., Jersey City, N. J. Lamp	519,854	May 15	1615	393 394	67	867

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Trent, Powhatan G., Sr., Roanoke, Ala. Portable fence	511,978	Jan. 2	419	97, 98	66	80
Treseder, James, Viola, Wis. Carpet-stretcher	516,580	Mar. 13	1402	333	66	1729
Tresidder, Tolmie J., Sheffield, England. Apparatus for use in chilling armor-plates	513,843	Jan. 30	3517	866	66	797
Tresidder, Tolmie J., Sheffield, England. Manufacture of armor-plates	529,050	Nov. 13	957	226	69	840
Tretheway, William B., Stockton, Cal. Hoisting device	525,875	Sept. 11	983	921	68	1343
Trevithick, Alfred E., St. Henri, Canada. Street-clearing apparatus	525,635	Sept. 4	521	{ 125 126 }	68	1248
Trevor, Francis N. (See Trevor, William W. and F. N.)						
Trevor, James E. (See Cooley, Noble, and Trevor.)						
Trevor, William W., Lockport, N. Y. Machine for turning barrel-heads	531,400	Dec. 25	2332	556	69	1687
Trevor, William W. and F. N., Lockport, N. Y. Machine for barking logs	517,990	Apr. 10	960	240	67	194
Trewbella, Benjamin, Jr. (See Trewbella, William and B., Jr.)						
Trewbella, William and B., Jr., Newbury, Victoria. Hanger	523,558	July 24	2401	601	68	494
Trexler, David L., assignor to J. L. Peacock, Lexington, N. C. Chair-brace	517,313	Mar. 27	2649	622	66	1999
Tribbett, Francis M., Abingdon, Ill. Device for opening or closing farm-gates automatically	523,821	July 31	2868	712	68	597
Trillich, Heinrich, assignor to Kathreiner's Malzkaffee Fabriken mit Beschraenkter Haftung, Munich, Germany. Preparing substitutes for coffee	513,252	Jan. 23	2543	.....	66	579
Trimble, James A., New York, N. Y. Signal-light for street-cars	512,921	Jan. 16	2023	{ 479 480 }	66	409
Trimble, James A., New York, N. Y. Door-hanger wheel	521,225	June 12	842	197	67	1363
Trimble, William D., Baltimore, Md. Insulator	527,254	Oct. 9	941	228	69	190
Trimont Manufacturing Company. (See Vinton, John H., assignor.)						
Triphagen, Charles H., Portland, Mich. Mop	512,492	Jan. 9	1287	309	66	255
Triplett, M. F. (See Hornberger, Curtis, assignor.)						
Tripp, Jacob W., Salt Lake City, Utah Ter. Plane	516,780	Mar. 20	1738	409	66	1806
Tripp, James, New York, N. Y. Shuttle-actuating mechanism for sewing-machines	527,565	Oct. 16	1459	355	69	299
Tripp, John, Genoa, Ill. Tire-tightener	513,159	Jan. 23	2384	576	66	548
Tripp, Seth D., Lynn, Mass. Wrapping-machine	516,136	Mar. 6	639	150	66	1572
Tripp, Willard F. (See Smith and Tripp.)						
Tripp, William J., New York, N. Y. Bearing	515,629	Feb. 27	2722	677	66	1410
Tripp, William J., New York, N. Y. Revolvable sectional journal-bearing	531,483	Dec. 25	2485	592	69	1715
Triumph Manufacturing Company. (See Barnard, George L., assignor.)						
Troast, William F., and S. R. Slaymaker, assignors to Slaymaker, Barry & Co., Lancaster, Pa. Padlock	513,160	Jan. 23	2385	576	66	548
Trojan Button Fastener Company, Incorporated. (See Ham, Albert W., assignor.)						
Tropeuas, Alexandre, Paris, France. Converter	511,919	Jan. 2	327	77	66	63
Tropical Coconut Company. (See Closson, Nelson A., assignor.)						
Tropowitz, Oscar, Hamburg, Germany. Preparing topical remedies	527,906	Oct. 23	2042	.....	69	423
Troxy, James T. (See Bates, John W., assignor.)						
Troxy, James T., Brooklyn, N. Y. Bone-black kiln	523,248	July 17	1868	469	68	382
Trott, Warren E., Brooklyn, N. Y. Tobacco-pipe	527,186	Oct. 9	829	201	69	169
Trotter, Andrew W., near Petersville, Ind. Furrow-closing attachment for corn-planters	516,067	Mar. 6	543	127	66	1554
Trounson, John, Minersville, Pa. Drilling-machine	516,952	Mar. 20	2024	479	66	1863
Trout, Carver C., Sharon, Pa. Combination-tool	513,742	Jan. 30	3366	830	66	767
Trouvé, Gustave, Paris, France. Fishing-net	523,350	Oct. 30	2828	684	69	580
Trowbridge, Charles S. (See Euphrat, Theophile, assignor.)						
Trowbridge, Edwin, et al. (See Nickerson, Hiram B., assignor.)						
Troxel, Thomas. (See Bowen and Troxel.)						
Troxler, Gustavus, Jr., Newark, N. J. Game apparatus	516,994	Mar. 20	2092	495	66	1875
Troy Laundry Machinery Company. (See Conkling and Buell, assignors.)						
Troyer, Nelson, Astoria, Oreg. Die for forming can-heads	531,451	Dec. 25	2422	580	69	1707
Truax, Charles H., Chicago, Ill., assignor of one-half to G. E. Marks, New York, N. Y. Artificial leg	527,133	Oct. 9	743	{ 183 184 }	69	154
Trube, Margaret V., Brooklyn, N. Y. Sad-iron	520,563	May 29	2859	692	67	1128
Trudel, Henri, Montreal, Canada. Fire-alarm hut	530,808	Dec. 11	1282	{ 309 310 }	69	1464
True, George A., Detroit, Mich. Overhead traveling crane	517,078	Mar. 27	2260	534	66	1923
True, William, Pepperell, Mass. Weather-strip	527,468	Oct. 16	1310	320	69	274
Truesdale, W. H., et al. (See Williams, Frederick W., assignor.)						
Truesdell, Eugene E. P., Belvidere, Ill. Oscillating steam-engine	515,160	Feb. 20	1974	492	66	1256
Truesdell, George, Washington, D. C. Railway transfer-ticket	512,414	Jan. 9	1141	277	66	227
Truitt, Owen K., Washington, D. C. Regulating device for moistening leaves of press-copy books	516,953	Mar. 20	2027	479	66	1863
Truitt, Shorter H. (See King and Truitt.)						
Truload, William L., Lansingburg, N. Y. Rail-sanding apparatus	527,630	Oct. 16	1567	379	69	319
Trull, William E., New York, N. Y., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Shuttle for sewing-machines	512,526	Jan. 9	1331	321	66	263
Trumble, Chauncey B., assignor of one-half to H. G. Moe, Groton, N. Y. Animal-trap	524,228	Aug. 7	412	104	68	742
Trumble, Chauncey B., assignor to H. G. Moe and G. M. Trumble, Groton, N. Y. Catalyst	516,852	Mar. 20	1854	439	66	1830
Trumble, Geanie M., et al. (See Trumble, Chauncey B., assignor.)						
Trumbull, Andrew. (See Punzelt, Edward E., assignor.)						
Trump, Edward N., and J. E. Sweet, Syracuse, N. Y. Compressor or vacuum-pump	517,903	Apr. 10	796	{ 200 201 }	67	167
Trumpy, Jakob, Hagen, Germany. Storage-battery system of distribution	511,821	Jan. 2	112	28	66	24
Trumpy, Jakob, Hagen, Germany. Storage-battery system of distribution	511,822	Jan. 2	114	28	66	25
Trumpy, Jakob, Hagen, Germany. Storage-battery system	519,077	May 1	233	56	67	581
Truscott, John S. (See Winge, Alf L., assignor.)						
Truslow & Co. (See Truslow, Frederick C., assignor.)						
Truslow & Co. (See Truslow, James L., Jr., assignor.)						
Truslow, Frederick C., Brooklyn, assignor to Truslow & Co., Brooklyn and New York, N. Y. Machine for cutting corks	520,744	May 29	3129	{ 757 758 }	67	1177
Truslow, Frederick C., Brooklyn, N. Y., assignor to Truslow & Co., Brooklyn and New York, N. Y. Machine for making hollow corks	523,297	July 17	1945	489	68	396
Truslow, James L., Jr., Summit, N. J., assignor to Truslow & Co., New York, N. Y. Insulating composition	522,745	July 10	1001	.....	68	205
Tubach, Emil F., Dusbore, Pa. Box-fastening	512,766	Jan. 16	1756	416	66	359
Tubach, Emil F., Dusbore, Pa. Device for packing furniture	518,167	Apr. 10	1247	313	67	243
Tubbs, Nelson J., Front Royal, Va. Triple-cylinder steam-engine	511,868	Jan. 2	196	48, 49	66	41
Tuck, Mary, New York, N. Y. Breast-supporter	525,241	Aug. 23	2202	536	68	1106
Tucker, Carrie B., et al., executors. (See Roberts, Cyrus.)						
Tucker & Dorsey Manufacturing Company. (See Tucker, William H., assignor.)						
Tucker, George W., Moberly, Mo. Combined stalk-cutter, roller, and seed-planter	514,522	Feb. 13	913	231	66	1043

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Tucker, John, New York, N. Y. Urinal.....	524,150	Aug. 7	318	74, 75	68	720
Tucker, Joseph J., <i>et al.</i> (See Billings, George W., assignor.)						
Tucker, Joseph J., <i>et al.</i> (See Childs, Charles H., assignor.)						
Tucker, Major. (See Ryckman and Tucker.)						
Tucker, William H., assignor to Tucker & Dorsey Manufacturing Company, Indianapolis, Ind. Caster.....	522,810	July 10	1 02	271	68	224
Tucker, William W., Hartford, Conn. Hub-blank-making machine.....	527,907	Oct. 23	2042	{ 490 491	{ 69	423
Tuckerman, George T. (See Tuckerman, John B. and G. T.)						
Tuckerman, John B. and G. T., Cassville, N. Y. Corn-harvester.....	513,161	Jan. 23	2387	{ 576 577	{ 66	548
Tuckerman, John B. and G. T., Cassville, N. Y. Machine for harvesting corn.....	521,486	June 19	1324	308	67	1469
Tudor, John C., Baltimore, Md. Cycle-lamp and support.....	529,865	Nov. 27	2410	578	69	1135
Tufts, James W., Medford, and W. Helmer, assignors to American Soda Fountain Company, Boston, Mass. Automatic heat-regulator for hot-soda apparatus.....	519,440	May 8	910	219	67	726
Tullius, Julius, New York, N. Y. Motive power for bicycles or similar machines.....	530,911	Dec. 11	1445	343	69	1494
Tunnard, Henry S., Rugby, and A. M. Keays, London, England. Automatic fire-alarm system.....	529,000	Nov. 13	873	206	69	825
Tunnell, John D., assignor of one-half to J. R. Wheatley, Amarillo, Tex. Car-coupling.....	528,623	Nov. 6	1 75	43	69	678
Turck, Frederick M., assignor, by mesne assignments, to H. J. Howlett, trustee, Brooklyn, N. Y. Paper box and locking device therefor.....	516,246	Mar. 13	839	{ 196 197	{ 66	1625
Turck, Frederick M., assignor, by mesne assignments, to H. J. Howlett, trustee, Brooklyn, N. Y. Paper box.....	516,247	Mar. 13	842	197	66	1625
Turck, Richard, Lüdenscheid, Germany. Nursing-bottle.....	514,974	Feb. 20	1652	413	66	1197
Turley, Theodore J., Nashville, Tenn. Chromatic-printing device.....	530,865	Dec. 11	1373	327	69	1480
Turnbull, Charles, Jr., North Shields, England. Electric bell.....	513,219	Jan. 23	2473	597	66	564
Turnbull, Charles, Jr., North Shields, England. Electric bell.....	513,230	Jan. 23	2474	597	66	565
Turnbull & Cullerton. (See Turnbull, George A., assignor.)						
Turnbull, Edward, Passaic, N. J. Apparatus for dyeing.....	512,922	Jan. 16	2024	480	66	409
Turnbull, George A., assignor to Turnbull & Cullerton, Chicago, Ill. Metallic lathing.....	511,823	Jan. 2	118	29	66	25
Turnbull, Joseph W., Pascagoula, Miss. Incandescent electric lamp.....	512,637	Jan. 9	1498	361	66	294
Turnbull, Joseph W., assignor of three-fifths to C. Boster, Pascagoula, Miss., and E. F. Del Bondio, New Orleans, La. Reflector for electric lamps.....	512,636	Jan. 9	1494	361	66	294
Turnell, Edward, Elm Creek, Nebr. Band-cutter and feeder.....	519,279	May 1	607	{ 147 148	{ 67	654
Turner, Abnzo B., and H. A. McMullen, Mount Savage, Md. Copying-book.....	529,977	Nov. 27	2571	620	69	1164
Turner, Calvin G., Wilmington, Del. Device for securing piston-rods to cross-heads.....	524,033	Aug. 7	1 09	23	68	682
Turner, Charles W. S., Middleburg, Va. Pneumatic tubing.....	528,278	July 3	185	50	68	38
Turner, Cornelius S. (See Struble and Turner.)						
Turner, Edward H., Minneapolis, Minn. Nursing-bottle.....	514,575	Feb. 13	997	251	66	1059
Turner, Fred E. (See Turner, William A. and F. E.)						
Turner, George, and J. M. H. Venour, London, England. Wheel.....	528,575	Nov. 6	90	23	69	662
Turner, Henry E., <i>et al.</i> (See Weale, Henry P., assignor.)						
Turner, Henry H. (See Leber, Victor, assignor.)						
Turner, Henry H., assignor to Gundlach Optical Company, Rochester, N. Y. Photographic shutter.....	520,198	May 22	2217	540	67	991
Turner, James H., Pewee Valley, Ky. Locomotive-oiler.....	521,467	June 19	1326	309	67	1470
Turner, John E. (See Garst, Dudley, assignor.)						
Turner, John T., Jamestown, N. D. Drenching-bottle.....	529,978	Nov. 27	2572	620	69	1165
Turner, Jonah, assignor of one-fourth to D. Colclasure, Blendsville, Mo. Wheel.....	512,459	Jan. 9	1230	297	66	244
Turner, Leonard R., Sing Sing, assignor to Southern Cotton Harvester Company, New York, N. Y. Cotton-harvester.....	515,031	Feb. 20	1742	{ 439 440	{ 66	1212
Turner, Leonard R., Sing Sing, assignor to Southern Cotton Harvester Company, New York, N. Y. Cotton-harvester.....	517,596	Apr. 3	294	68	67	58
Turner, Lewis A., and H. C. Fletcher, assignors to H. W. Armstrong and B. Gibson, Los Angeles, Cal. Trap.....	515,980	Mar. 6	398	92	66	1526
Turner, Mortimer O., Marquette, Mich. Combined dose-cup and bottle.....	525,753	Sept. 11	749	174	68	1300
Turner, Moses, trustee. (See Ranney, Darwin D., assignor.)						
Turner, O. M., <i>et al.</i> (See Lilleberg, Charles L., assignor.)						
Turner, Ora N., Lynn, assignor to General Electric Company, Boston, Mass. Commutator-conductor.....	516,853	Mar. 20	1855	439	66	1831
Turner, Robert C., Steubenville, Ohio. Apparatus for purifying water or aging liquors.....	524,121	Aug. 7	261	61	68	709
Turner, Robert L., Indianapolis, Ind. Tail-piece for musical instruments.....	519,416	May 8	872	211	67	719
Turner, Robert R., Columbus, Ohio. Boiler-furnace and smoke-consumer.....	518,870	Apr. 24	2468	612	67	495
Turner, Samuel H. (See McTurner, Boren, and Turner.)						
Turner, Shoubel C., Oakdale, Pa. Pump for oil-wells.....	525,728	Sept. 11	711	164	68	1294
Turner, Walter, London, England. Pneumatic-tired wheel.....	520,504	May 29	2728	661	67	1103
Turner, William A., assignor to E. Converse, Worcester, Mass. Die-press.....	512,415	Jan. 9	11-3	278	66	927
Turner, William A., assignor to E. Converse, Worcester, Mass. Ball-cock valve.....	520,143	May 22	2130	520	67	976
Turner, William A., assignor to E. Converse, Worcester, Mass. Ball-cock valve.....	520,149	May 22	2132	520	67	976
Turner, William A., assignor to E. Converse, Worcester, Mass. Ball-cock valve.....	520,150	May 22	2134	520	67	976
Turner, William A., assignor to E. Converse, Worcester, Mass. Sheet-metal knob.....	520,151	May 22	2135	520	67	977
Turner, William A., assignor to E. Converse, Worcester, Mass. Ball-cock valve.....	521,350	June 12	1075	252	67	1407
Turner, William A., assignor to E. Converse, Worcester, Mass. Self-closing faucet.....	531,484	Dec. 25	2487	592	69	1716
Turner, William A., assignor to H. A. Fowler, J. H. Lingley, Worcester, and S. Fowler, Northbridge, Mass. Adjustable curtain-rod.....	520,584	May 29	2560	692	67	1123
Turner, William A. and F. E., Malden, Mass. Means for raising sunken vessels.....	531,485	Dec. 25	2489	593	69	1716
Turner, William D., Fergusson's Wharf, Va. Thill-coupling.....	523,494	July 24	2300	579	68	475
Turney Electric Manufacturing Company. (See Crowds, Walter A., assignor.)						
Turney Electric Manufacturing Company. (See Turney, Eugene T., assignor.)						
Turney, Eugene T., assignor to Turney Electric Manufacturing Company, Chicago, Ill. Cigar-lighter.....	520,095	May 22	2217	493	67	957
Turney, Frederick N., Nottingham, England. Apparatus for extracting oil from wool.....	522,130	June 26	2443	{ 588 589	{ 67	1693
Turnofsky, Carl, assignor to Berliner Gussstahl-Fabrik und Eisengiesserei Hugo Hartung Actien-Gesellschaft, Berlin, Germany. Grate-bar.....	513,373	Jan. 23	2725	661	68	614
Turpin, Henry E., New Orleans, La. Apparatus for displaying advertisements.....	525,636	Sept. 4	522	126	68	1248
Turtou, George, Sheffield, England. Spring.....	516,360	Mar. 13	1030	{ 245 246	{ 66	1661
Turton, Mordecai, Jerry City, Ohio. Grip for polished pump-rods.....	520,716	May 29	3089	748	67	1170
Tutti-Frutti Automatic Vending Company. (See Sherman, George W., assignor.)						
Tutti Frutti Automatic Vending Company. (See Williams, John A., assignor.)						
Tuttie, Edward A., New York, N. Y. Hot-air register.....	526,848	Oct. 2	290	70	69	55

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Tuttle, George W. (See Ashwell and Tuttle.)						
Tuttle, Ida L. (See Tuttle, Salmon, assignor.)						
Tuttle, Josiah S., Burns, Kans. Feed attachment for baling-presses.....	521,193	June 12	782	183	67	1352
Tuttle, Merwin D. (See Bullock, Edward J., assignor.)						
Tuttle, Salmon, assignor to I. L. Tuttle, Caldwell, Kans. Roller-press.....	522,243	July 3	116	27, 28	68	22
Tverdal, Mathilde, assignor of one-half to C. T. Johnson, Stoughton, Wis. Sad-iron.....	513,743	Jan. 30	3367	830	66	767
Tverdal, Ole, assignor to United States Cash Register Company, Stoughton, Wis. Cash-register and indicator.....	514,292	Feb. 6	543	{ 133 134 135 136 137 138 139 }	66	955
Tverdal, Ole, assignor to United States Cash Register Company, Stoughton, Wis. Cash-register and indicator.....	514,293	Feb. 6	548	{ 133 134 135 136 137 138 139 }	66	956
Tweedale, Edmund and S., and J. Smalley, Castleton, England. Electric stop-motion drawing frame.....	517,778	Apr. 3	610	151	67	118
Tweedale, Samuel. (See Tweedale and Smalley.)						
Tweedy, Edmund. (See Saunders, Theodore, assignor.)						
Twin City Iron Works. (See Harvey, Anasa, assignor.)						
Twining, Samuel W., and E. R. Collins, Brooklyn, N. Y. Expanding mandrel.....	522,699	July 10	894	220	68	187
Twiss, Richard S. (See Anderson and Twiss.)						
Trivitt, William S., Chicago, Ill. Line-fastener.....	517,597	Apr. 3	295	68	67	58
Two-Reel Lock Stitch Sewing Machine Company. (See Jones, Daniel, assignor.)						
Tygert, Frances A. (See Richardson, Winfield S., assignor.)						
Tyler, Aaron J. (See Hutchinson and Tyler.)						
Tyler, Alfred H., and J. S. E. de Vesian, London, England. Hydraulic apparatus for forging metals, &c.....	530,313	Dec. 4	416	{ 104 105 }	69	1291
Tyler, Alfred H., and J. S. E. de Vesian, assignors to Pneumatic Wood Carving Machine Syndicate, Limited, London, England. Portable motor.....	512,527	Jan. 9	1334	322	66	263
Tyler, Arthur V. (See Knauer and Tyler.)						
Tyler, Charles C., Hartford, Conn. Method of and apparatus for making milling-cutters.....	530,212	Dec. 4	238	59	69	1259
Tyler, Charles C., Hartford, Conn. Manufacture of milling-cutters.....	530,213	Dec. 4	241	59	69	1260
Tyler, Charles C., Hartford, assignor of one-half to R. S. Tyler, Jewett City, Conn. Oil-cup.....	531,401	Dec. 25	2335	557	69	1688
Tyler, Coe, assignor of one-half to W. C. Bronson, Binghamton, N. Y. Crank.....	516,137	Mar. 6	647	151	66	1574
Tyler, Pardon B., Spokane, Wash. Water-power machine-gun.....	523,185	July 17	1757	{ 440 441 }	68	362
Tyler, R. S. (See Tyler, Charles C., assignor.)						
Tyler, Radolphus D. S., Washington, D. C. Clip, &c., for mail-bag and other straps.....	518,681	Apr. 24	2154	539	67	439
Tyler, Walter L. (See See and Tyler.)						
Tyler, William W. (See Bookwalter and Tyler.)						
Tymeson, Eugene, assignor to W. B. Smith, Yonkers, N. Y. Moquette fabric.....	529,635	Nov. 20	1988	474	69	1048
Tymeson, Eugene, assignor to W. B. Smith, Yonkers, N. Y. Moquette loom.....	529,636	Nov. 20	1990	{ 475 476 477 }	69	1048
Tynes, Jefferson D., Fort Smith, Ark. Nut-lock.....	517,370	Mar. 27	2744	645	66	2018
Tyrrell, Harry B., et al. (See Conant, George P., assignor.)						
Tyrrell, John H., New York, N. Y. Conduit electric railway.....	522,440	July 3	465	{ 117 118 }	68	92
Uehling, Edward A., Birmingham, Ala. Treating black-band ores.....	513,744	Jan. 30	3368	.....	66	767
Uehling, Edward A., Birmingham, Ala. Christmas-tree light.....	531,452	Dec. 25	2439	581	69	1708
Uehling, Edward A., assignor of one-half to A. Steinbart, Birmingham, Ala. Process of and apparatus for analyzing gases.....	521,444	June 12	1235	292	67	1437
Uehling, Edward A., and A. Steinbart, Birmingham, Ala. Pyrometer. (Reissue).....	11,413	Apr. 17	1979	490	67	392
Uehling, Edward A., and A. Steinbart, Birmingham, Ala. Process of and apparatus for analyzing gases.....	522,746	July 10	1002	249	68	205
Uhlmann, Charles R., Peoria, Ill. Combined rose and escutcheon.....	530,562	Dec. 11	879	216	69	1391
Uhri, Jacob. (See Knudtson and Uhri.)						
Uline, John. (See Rabun, Hugh M., assignor.)						
Ullman, Ike W., Birmingham, Ala. Electric switch.....	530,293	Dec. 4	386	97	69	1285
Ulrich, John P. (See Stevens, John F., assignor.)						
Ulrich, Moritz, and J. Bammann, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Blue dye.....	512,493	Jan. 9	1288	.....	66	255
Ulrich, Moritz, and J. Bammann, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Azo dye.....	524,005	Aug. 7	62	.....	68	673
Ulrich, Moritz, J. Bammann, and M. Herzberg, assignors to Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Brown dye.....	515,381	Feb. 27	2334	.....	66	1336
Ulsh, Isaac M., Fremont, Ohio. Tightener for fence-wire.....	513,844	Jan. 30	3519	866	66	798
Umboltz, Charles W., Bristol, Va. Tube-expander.....	521,742	June 19	1754	416	67	1549
Umney, Herbert W., London, England. Hydraulic hoisting machinery, &c.....	527,908	Oct. 23	2047	{ 491 492 362 363 364 365 366 367 }	69	424
Unbehend, Jacob J., Waltham, Mass. Riveting-machine.....	519,782	May 15	1497	{ 362 363 364 365 366 367 }	67	845
Unbehend, Jacob J., Waltham, Mass. Riveting-machine.....	523,024	July 17	1469	{ 366 367 }	68	308
Underdown, John K. (See Zimmerman and Underdown.)						
Underdown, John K., assignor to National Key-Opening Can Company, Chicago, Ill. Machine for forming can bodies.....	523,192	Oct. 30	2560	620	69	532
Underwood, Francis M., Pasadena, Cal. Compound for and method of preserving eggs.....	520,549	May 29	2799	676	67	1116
Underwood, Herbert G., Yonkers, N. Y., assignor to Collins Automatic Pneumatic Switching Tubes Company, of New Jersey. Dispatch-tube system.....	524,006	Aug. 7	64	14, 15	68	673
Underwood, James W., Sheridan, Ind. Gas heating apparatus.....	512,132	Jan. 2	668	160	66	128
Underwood, Robert L., assignor to A. H. Boardman, Toledo, Ohio. Fuel-oil burner.....	524,289	Aug. 7	544	130	68	759
Underwood, Thomas M., Baldwin, Miss. Hair-trimming shears.....	512,767	Jan. 16	1757	417	66	359
Underwood, William and C. Prall, Fair Grove, Ill. Dumping-rack.....	515,266	Feb. 20	2121	526	66	1283
Underwood, William H. (See Sears and Underwood.)						
Underwriters Fire Sprinkler Company. (See Pierce, Octavius, assignor.)						
Unge, Wilhelm T., Stockholm, Sweden. Firearm operated by gases of explosion.....	515,064	Feb. 20	1788	{ 451 452 453 }	66	1221
Unger, Adolf, Henriksholm, Sweden. Feeding mechanism for wood-grinding machines.....	524,796	Aug. 21	1417	347	68	951

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Unger, August M., <i>et al.</i> (See Peirce, Almy L., assignor.)						
Unger, Barnett G. D., <i>et al.</i> (See Green, William A., assignor.)						
Unger, Isaac, Arcanum, Ohio. Tobacco-transplanter	523,800	July 31	2:33	{ 704 705	{ 68	590
Ungrich, Martin L., New York, N. Y. Apartment-house	531,141	Dec. 18	1860	{ 441 442	{ 69	1584
Union Button Sewing Machine Company. (See Hansalpakar, Edwin, assignor.)						
Union Cycle Manufacturing Company. (See Metz, Charles H., assignor.)						
Union Eyelet Company. (See Chandler, Isaac E., assignor.)						
Union Hardware Company. (See Ferrall, Thomas R., assignor.)						
Union Heater Supply Company. (See Rein, Bernard, assignor.)						
Union Iron Works. (See Upton, Charles H., assignor.)						
Union Manufacturing and Plating Company. (See Timm, Charles, assignor.)						
Union Metallic Cartridge Company. (See Richards, Charles R., assignor.)						
Union Metallic Cartridge Company. (See Thomas, William M., assignor.)						
Union National Gas Saving Company. (See Richardson, Jay C., assignor.)						
Union Special Sewing Machine Company. (See Fef-l, Henry H., assignor.)						
Union Special Sewing Machine Company. (See Holland, Elias C., assignor.)						
Union Special Sewing Machine Company. (See Muther, Lorenz, assignor.)						
Union Special Sewing Machine Company. (See Woodward, Russel G., assignor.)						
Union Stove Works. (See Finch and Hodgkins, assignors.)						
Union Switch and Signal Company. (See Coleman, John P., assignor.)						
Union Switch and Signal Company. (See Coleman, John P., assignor.) (Reissne.)						
Union Switch and Signal Company. (See Goodman, Edward H., assignor.)						
Union Typewriter Company. (See Brown, Alexander T., assignor.)						
United Alkali Company. (See Worsley, Windus, and Bracey, assignors.)						
United Fire Alarm and Police Signal Company. (See Gaynor, Thomas F., assignor.)						
United Gas Improvement Company. (See Page, Carter H., Jr., assignor.)						
United Gas Improvement Company. (See Wright, Peter, assignor.)						
United Mill and Furnace Company. (See Storer, Jacob J., assignor.)						
United States Butter Extractor Company. (See Andersson, Gustaf M., assignor.)						
United States Butter Extractor Company. (See Ohlsson, Olof, assignor.)						
United States Butter Extractor Company of New Jersey. (See Ohlsson, Olof, assignor.)						
United States Cash Register Company. (See Tverdal, Ole, assignor.)						
United States Electric Lamp Lighter Company. (See Eberhard and Schimkatt, assignors.)						
United States Electric Railway Signal Company. (See Conly, Mahlon S., assignor.)						
United States Hair Clipper Manufacturing Company. (See Olsen, Ole, assignor.)						
United States Metallic Packing Company. (See Hill, Thomas R., assignor.)						
United States Net and Twine Company. (See Moog, Frederick W., assignor.)						
United States Phonograph Company. (See Tewksbury, George E., assignor.)						
United States Printing Company. (See Schnurr, William, assignor.)						
United States Projectile Company. (See Cayley and Courtman, assignors.)						
United States Projectile Company. (See Porter, Arthur T., assignor.)						
United States Rubber Company. (See Pettis, George C., assignor.)						
United States Smokeless Powder Company. (See Starke, Eric A., assignor.)						
United States Standard Heating Company. (See Titcomb, George H., assignor.)						
United States Tubular Bell Company. (See Durfee, Walter H., assignor.)						
United States Wind Engine and Pump Company. (See Miller, John H., assignor.)						
Universal Carbonating Company. (See Theurer, Jacob F., assignor.)						
Universal Coal Dumping Car Company. (See Lane, William G., assignor.)						
Universal Electric Company. (See Green, John J., assignor.)						
Universal Electric Company of the City of New York. (See Green, John J., assignor.)						
Universal Fire Alarm Company. (See Rowand, Lewis G., assignor.)						
Universal Food and Liquid Improving Company. (See Hunt, James, assignor.)						
Universal Lock and Stopper Company. (See Schwer, Theodore, assignor.)						
Universal Street Sweeping Machine Company. (See Tohey, William L., assignor.)						
Universal Winding Company. (See Wardwell, Simon W., Jr., assignor.)						
Unkrich, Ferdinand F., Galion, Ohio. Sash-fastener	525,930	Sept. 11	1063	242	68	1356
Unruh, James W., Roxbury, Kans. Car-coupling	519,747	May 15	1437	947	67	833
Unschuld, Felix, Munich, Germany, assignor to J. Fishburn, Westminster, England. Ice-rink	530,367	Dec. 4	516	{ 127 128	{ 69	1309
Unsworth, Herbert G. (See Dales and Unsworth.)						
Unterbrink, Ignatius L., Fryburg, assignor of one-half to C. A. Layton, Wapakoneta, Ohio. Multiple gearing	512,460	Jan. 9	1232	298	66	244
Unterbrink, Ignatius L., Fryburg, assignor to C. A. Layton, Wapakoneta, Ohio. Bicycle	530,249	Dec. 4	304	76	69	1271
Upham, E. I., <i>et al.</i> (See Morris, William B., assignor.)						
Upham, Richard D., assignor to W. S. Wilkinson, Baltimore, Md. Refining asphalt	512,494	Jan. 9	1289	{ 309 310	{ 66	255
Upson, George D. (See Upson, James W., assignor.)						
Upson, James W., assignor to G. D. Upson, Cleveland, Ohio. Furnace	523,249	July 17	1869	{ 469 470	{ 68	382
Upson, James W., assignor to G. D. Upson, Cleveland, Ohio. Automatic regulating device	523,250	July 17	1872	470	68	383
Upton, Charles H., assignor to Union Iron Works, Minneapolis, Minn. Guide for gang-edger saws	523,298	July 17	1947	490	68	397
Upton, Charles H., assignor to Union Iron Works, Minneapolis, Minn. Piston-rod connection for sawmill-carriages	523,299	July 17	1949	490	68	397
Upton, Charles S. (See Place, James E., assignor.)						
Upton, Charles S. (See Pomeroy, James U., assignor.)						
Upton, Charles S., New York, N. Y. Lamp-stove	518,127	Apr. 10	1182	296	67	232
Upton, Charles S., New York, N. Y. Oil-can	520,505	May 29	2729	661	67	1103
Upton, Charles S., New York, N. Y. Lamp-stove	520,506	May 29	2730	661	67	1103
Upton, Charles S., New York, N. Y. Gas-stove	520,507	May 29	2731	662	67	1104
Upton, Colcord, Salem, Mass. Bilge-water alarm	530,368	Dec. 4	517	128	69	1309
Upton, Colcord, Salem, Mass. Dredging-machine and electrically-actuated bucket therefor	531,486	Dec. 25	2490	593	69	1717
Urban, Antou, Vienna, Austria-Hungary. Machine for making nuts	517,779	Apr. 3	611	{ 151 152 153	{ 67	118
Uren, Thomas A., Prineville, Oreg. Ledger-index	520,096	May 22	2020	493	67	957
Urmston, Stephen E. (See Kiler, Charles M., assignor.)						
Urquhart, Donald G., Huron, S. D. Punching and cutting tool	524,473	Aug. 14	879	217	68	840
Ustry, William R., assignor of one-half to C. W. Ewing, Gadsden, Ala. Stalk-cutter	527,302	Oct. 9	1027	250	69	205

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Ussery, S. H., <i>et al.</i> (See Bishop, James C., assignor.)						
Uthbrok, Christopher W., <i>et al.</i> (See Euchenhofer, Weinman, and Stevens, assignors.)						
Uthbrok, Christopher W., <i>et al.</i> (See Stevens, Alfred L., assignor.)						
Utley, Thomas, Liverpool, England. Ship's light and air port	523,251	July 17	1874	{ 470 471	68	383
Utt, Lincoln, Lexington, Mo. Attachment for musical instruments	530,369	Dec. 4	518	128	69	1309
Vacuum Brake Company. (See Gresham, James, assignor.)						
Vacuum Wet Machine Company. (See Fairbanks and Parker, assignors.)						
Vail, Anthony C., Plainfield, N. J. Device for shaping folds of linen collars	521,061	June 5	554	129	67	1297
Vail, Charles E. (See Wilcox and Vail.)						
Vail, Charles E., Salt Lake City, Utah Ter. Hat and coat hook	516,284	Mar. 13	897	211	66	1637
Vail, Henry W. (See Mitchell, Robert C., assignor.)						
Vail, Henry W., Jr., Industry, Ill. Wire lute	530,250	Dec. 4	307	77	69	1271
Vale Barrel Machine Company. (See Vale and Ohl, assignors.)						
Vale, William T., Toronto, Canada, and G. A. Ohl, Newark, N. J., assignors to Vale Barrel Machine Company, Limited, Hamilton, Canada. Barrel-making machine	531,283	Dec. 18	2125	{ 509 510	69	1632
Valentien, Jacobus, Appleton, Iowa. Anchor for check-row planters	523,388	July 24	2095	527	68	440
Valentine, A. S., <i>et al.</i> (See Rodgers, George W., assignor.)						
Valentine, Edward D., New York, N. Y. Vending-machine	513,845	Jan. 30	3520	{ 866 867	66	798
Valentine, Thomas E., <i>et al.</i> (See Dobbins, Douglas, assignor.)						
Valentine, Waldo W., Washington, D. C. Vehicle-wheel	517,201	Mar. 27	2468	581	66	1964
Valentine, William F., Circleville, Ohio. Two-wheeled vehicle	526,952	Oct. 2	466	115	69	88
Vallean, James H., assignor of one-half to T. N. Bray, Sioux City, Iowa. Hitching-strap	525,568	Sept. 4	424	101	68	1230
Valleau, James H., assignor of one-half to T. N. Bray, Sioux City, Iowa. Hitching-strap	528,495	Oct. 30	3086	748	69	627
Valleau, James H., assignor of one-half to T. N. Bray, Sioux City, Iowa. Hitching-strap. (Reissue)	11,457	Dec. 11	1459	345	69	1496
Valley, Gustaf, Cleveland, Ohio. Spring-spoke wheel	513,848	Jan. 30	3525	867	66	799
Valley, Gustaf, assignor to Steel Motor Company, Cleveland, Ohio. Trolley-pole stand	513,846	Jan. 30	3524	867	66	798
Valley, Gustaf, assignor to Steel Motor Company, Cleveland, Ohio. Trolley-pole stand	513,847	Jan. 30	3524	867	66	799
Valley, John N., Jersey City, N. J. Carriage for elevated railways	530,809	Dec. 11	1284	310	69	1465
Valley, John N., Jersey City, N. J. Elevated railway	530,810	Dec. 11	1285	311	69	1465
Van Allen, George L., <i>et al.</i> , administrators. (See Suydam, John.)						
Van Amringe, William B., Boston, Mass. Construction of memorial monuments	528,193	Oct. 30	2563	{ 620 621	69	532
Van Benthynsen, Walter, New Orleans, La. Electric-railway trolley	512,923	Jan. 16	2026	480	66	410
Van Berkel, Adrian, Berlin, and R. Fliess, Wrietzen, Germany, assignors to said Van Berkel, and C. W. Schneider, Rosehook, N. Y. Process of and apparatus for making carbonic acid	513,691	Jan. 30	3279	807	66	751
Van Buren, Charles M., Paterson, N. J. Toy cannon	524,772	Aug. 21	1379	336	68	944
Van Buren, George L., and T. C. Davis, Benedict, Kans. Corn-harvester	512,072	Jan. 2	572	{ 135 136	66	109
Van Buren, George L., and T. C. Davis, Benedict, Kans. Corn-harvester	529,431	Nov. 20	1643	{ 391 392	69	985
Van Buren, Jafew S., assignor to Rathbone, Sard & Co., Albany, N. Y. Ornamental stove	516,617	Mar. 13	1462	{ 345 346	66	1741
Van Campen, Azeil B., Raymond, Cal. Saw-handle	518,656	Apr. 24	2110	527	67	431
Van Cauwenbergh, Frank, assignor to H. Hartmann, Chicago, Ill. Glove-sewing machine	514,635	Feb. 13	1104	{ 274 275 276	66	1079
Van Cauwenbergh, Frank, assignor to H. Hartmann, Chicago, Ill. Fur-sewing machine	514,874	Feb. 13	1493	{ 374 375 376	66	1152
Van Court, Robert E., Elkton, Va. Churn	521,194	June 12	784	183	67	1352
Van Court, Robert E., Elkton, Va. Churn	524,122	Aug. 7	262	61	68	710
Van De Water, Charles, assignor of one-half to J. H. Peacock, Auburn, N. Y. Pipe or nut wrench	521,130	June 5	671	158	67	1318
Van den Berghen, Albert L. R., assignor of one-half to F. Bartolomei, Chicago, Ill. Facing bricks, tiles, &c	521,226	June 12	843	.....	67	1363
Van Denvouwer, Anna. (See Stiker, Flavins P., assignor.)						
Van Depoele, Charles J., deceased, Lynn; C. A. Coffin and A. Wahl, administrators, assignors to Thomson-Houston Electric Company, Boston, Mass. Electric-railway trolley	515,308	Feb. 20	2198	545	66	1299
Van Depoele, Charles J., deceased, Lynn; C. A. Coffin and A. Wahl, administrators, assignors to Thomson-Houston Electric Company, Boston, Mass. Electromagnetic reciprocating pump	523,822	July 31	2869	713	68	597
Van Depoele, Charles J., deceased, Lynn; C. A. Coffin and A. Wahl, administrators, assignors to Thomson-Houston Electric Company, Boston, Mass. Gearless electric locomotive	529,671	Nov. 20	2050	491	69	1059
Van Derveer, John R. (See Holmes, Daniel M., assignor.)						
Van Der Zee, Cornelius, assignor of two-thirds to D. H. Mathias and J. H. Simonson, Albany, N. Y. Fruit-basket	520,814	June 5	106	24	67	1216
Van Deussen, William A., Brooklyn, N. Y. Egg-beater	516,415	Mar. 13	1118	265	66	1677
Van Dorston, Alvin W., Washington, D. C. Car-coupling	517,178	Mar. 27	2429	{ 571 572 573	66	1956
Van Dorston, Alvin W., Washington, D. C. Car-coupling	517,179	Mar. 27	2433	{ 573 574	66	1957
Van Dyke, Arthur, Orange, N. J. Hose-mender	531,578	Dec. 25	2645	634	69	1748
Van Dyke, John W., Lima, Ohio. Water-tube steam-boiler	522,035	June 26	2292	549	67	1665
Van Dyke, Robert B., assignor to A. R. Bone, Anderson, Ind. Sprinkler	530,464	Dec. 4	668	165	69	1337
Van Emon, Burton C. (See Sessions and Van Emon.)						
Van Emon, Burton C., assignor to Electrical Engineering Company, San Francisco, Cal. Automatic rheostat	513,350	Jan. 23	2687	652	66	607
Van Emon, Burton C., assignor to G. H. Roe and G. Sutro, San Francisco, Cal. Electrical storage-battery	524,656	Aug. 14	1178	290	68	895
Van Everen, Horace G., and J. Henderson, Three Rivers, Mich. Device for regulating and relieving pressure in water-pipes	514,394	Feb. 6	699	177	66	985
Van Eyck, Henry R., Zeeland, Mich. Cheese-forming machine	519,209	May 1	457	118	67	631
Van Fleet, Fred, Williamsport, Pa. Type-cleaning brush for type-writing machines	528,215	Oct. 30	2604	628	69	539
Van Fleet, John M., Keaton, Ohio. Beverage-vessel	523,951	July 31	3110	774	68	642
Van Gelder, Pieter. (See Thompson and Van Gelder.)						
Van Gelder, Pieter, and W. P. Thompson, Liverpool, England; said Van Gelder assignor to said Thompson. Dust or soot collecting machine	522,700	July 10	895	221	68	188

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Van Gestel, Jean T., New York, assignor of one-fourth to R. H. Sherwood, Bensonhurst, N. Y. Automatic street-car fender.....	531,234	Dec. 18	2039	486	69	1615
Van Gorder, Isaac D., Niles, Mich. Hat or bonnet holder.....	519,210	May 1	490	118	67	632
Van Guysling, Walter F., assignor of one-third to F. Tillinghast, Albany, N. Y. Lubricator.....	527,516	Oct. 16	1383	337	69	285
Van Harlingen, William L., Oakland, Cal. Ready-reference file.....	522,171	June 26	2520	605	67	1708
Van Hennik, Sebastian, Yonkers, N. Y. Ale-tap.....	527,739	Oct. 16	1744	421	69	352
Van Heusen Compress Heater and Sterilizer Company. (See Van Heusen, John M., assignor.)						
Van Heusen, John M., Albany, N. Y., assignor to Van Heusen Compress Heater and Sterilizer Company, of New York. Sterilizing and disinfecting apparatus.....	516,416	Mar. 13	1118	{ 265 266 }	{ 66 }	1677
Van Horn, Arthur C., and E. E. Barney, Groton, N. Y.; said Barney assignor to said Van Horn. Drawing-board.....	527,134	Oct. 9	750	184	69	154
Van Horn, Charles F. (See Van Stavoren, Samuel J., assignor.)						
Van Horn & Snyder, L. (See Gilmore, William C., assignor.)						
Van Horn, William D. (See Hathaway, George M., assignor.)						
Van Horn, William L., Norfolk, Nebr. Combination reel and sprinkler.....	520,815	June 5	107	24	67	1216
Van Houten, Frank H., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Oven-door.....	524,362	Aug. 14	693	169	68	804
Van Houten, Frank H., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Dough-dividing machine.....	524,363	Aug. 14	695	{ 169 170 }	{ 68 }	804
Van Houten, Fred E., Hoytville, Mich. Kitchen-table.....	527,303	Oct. 9	1030	250	69	205
Van Kalker, John, and N. Bolt, Grand Rapids, Mich. Fire-extinguisher.....	517,780	Apr. 3	614	153	67	119
Van Kannel, Theophilus, Philadelphia, Pa. Can-capping machine.....	512,073	Jan. 2	575	{ 136 137 }	{ 66 }	109
Van Loan, Frank E., Rome, Pa. Rein-support.....	513,162	Jan. 23	2389	577	66	549
Van Nada, John B., Petersburg, Ind. Gate.....	520,717	May 29	3099	748	67	1170
Van Ness, Charles H. (See Hennefeld, Dehner, and Van Ness.)						
Van Nest, Henry J., Florence, Colo. Nut-lock.....	520,718	May 29	3092	748	67	1170
Van Norman, Abe R., assignor to Grand Rapids Piano Case Company, Grand Rapids, Mich. Knockdown chair.....	521,395	June 12	1139	269	67	1419
Van Norman, Charles E., Springfield, Mass. Shoe-lacing hook.....	514,395	Feb. 6	701	177	66	985
Van Nostran, Joseph E. (See Stump, Ira E., assignor.)						
Van Oostrum, Otto, Portland, Oreg. Garment-securing device.....	529,147	Nov. 13	1119	271	69	870
Van Orner, Harry H., Edwardsburg, Mich. Wire-fence machine.....	524,657	Aug. 14	1180	290	63	295
Van Patten, Frederick, Auburn, N. Y. Foot-rail for carriages.....	514,793	Feb. 13	1367	343	66	1129
Van Pelt, John K., Memphis, Tenn. Force-pump.....	529,432	Nov. 20	1648	{ 392 393 }	{ 69 }	986
Van Pelt, Samuel D., Anderson, Ind. Slate-dressing machine.....	512,134	Jan. 2	671	160	66	128
Van Ruymbeke, Joseph, <i>et al.</i> (See Dyer, Frank L., assignor.)						
Van Ruymbeke, Joseph, assignor of one-half to W. F. Jobbins, Chicago, Ill. Preparing steam.....	522,131	June 26	2447	589	67	1694
Van Ruymbeke, Joseph, assignor of one-half to W. F. Jobbins, Chicago, Ill. Process of and apparatus for distilling glycerin.....	522,132	June 26	2449	590	67	1694
Van Ruymbeke, Joseph, assignor of one-half to W. F. Jobbins, Chicago, Ill. Recovering glycerin from glycerin foots.....	522,133	June 26	2452	.....	67	1695
Van Ruymbeke, Joseph, assignor of one-half to W. F. Jobbins, Chicago, Ill. Recovering products from spent soap-lye.....	522,134	June 26	2434	590	67	1695
Van Ruymbeke, Joseph, assignor of one-half to W. F. Jobbins, Chicago, Ill. Apparatus for recovering glycerin from spent soap-lye.....	522,135	June 26	2458	591	67	1696
Van Ruymbeke, Joseph, Aurora, assignor to Jobbins & Van Ruymbeke, West Aurora, Ill. Coagulant.....	525,242	Aug. 28	2203	.....	68	1106
Van Sant, William C., <i>et al.</i> (See Hutchinson, Ira R., assignor.)						
Van Stavoren, Samuel J., assignor of one-half to C. F. Van Horn, Philadelphia, Pa. Car-axle-box pedestal.....	527,087	Oct. 9	669	163	69	140
Van Stavoren, Samuel J., assignor of one-half to C. F. Van Horn, Philadelphia, Pa. Car-axle-box pedestal.....	527,088	Oct. 9	670	164	69	141
Van Stavoren, Samuel J., assignor of one-half to C. F. Van Horn, Philadelphia, Pa. Car-axle-box pedestal.....	527,089	Oct. 9	671	164	69	141
Van Stavoren, Samuel J., assignor of one-half to C. F. Van Horn, Philadelphia, Pa. Car-axle-box pedestal.....	527,090	Oct. 9	672	164	69	141
Van Stavoren, Samuel J., assignor of one-half to C. F. Van Horn, Philadelphia, Pa. Car-axle-box pedestal.....	527,091	Oct. 9	673	{ 164 165 }	{ 69 }	141
Van Tine, George W., Bayonne, N. J. Valve.....	527,381	Oct. 9	1157	284	69	230
Van Valkenburg, Edward, Binghamton, N. Y. Ripping-knife.....	525,477	Sept. 4	269	66	68	1201
Van Valkenburg, Ellis M., assignor to Belle City Bolster Spring Company, Racine, Wis. Neck-yoke center.....	512,768	Jan. 16	1757	417	66	360
Van Valkenburg, Ellis M., assignor to S. C. Johnson, Racine, Wis. Neck-yoke center.....	516,138	Mar. 6	644	151	64	1574
Van Vleck, John, New York, N. Y. Electric switch.....	522,332	July 3	268	71	68	54
Van Vleck, John, New York, N. Y. Dynamo-regulator.....	526,879	Oct. 2	348	86	69	65
Van Vleck, John, New York, N. Y. Electrical measuring-instrument for switchboards.....	529,433	Nov. 20	1649	393	69	986
Van Vleck, John, New York, N. Y. Service-end, cut-out, and switch-box for electric-lighting circuits.....	520,141	Dec. 4	108	28	69	1235
Van Vleck, John, New York, N. Y. Dynamo-regulator.....	530,465	Dec. 4	669	166	69	1338
Van Vliet, Frederick G. (See Coon, George C., assignor.)						
Van Vradenburg, Peter D., Binghamton, N. Y. Car-brake.....	517,904	Apr. 10	799	201	67	168
Van Wagner, Carlon C., <i>et al.</i> (See Wright, Isaac D., assignor.)						
Van Wagner, Isaac M., Fairview, N. J., assignor to Gates Iron Works, Chicago, Ill. Concave for stone or ore crushers.....	525,398	Sept. 4	143	36	68	1177
Van Wagner, William H., <i>et al.</i> (See Wright, Isaac D., assignor.)						
Van Wagoner, Charles H., assignor, by mesne assignments, to Homer Steel Fence Company, Homer, Mich. Wire-tightener.....	528,194	Oct. 30	2565	621	69	532
Van Wagoner & Williams Hardware Company. (See Pomeroy, Le Dru R., assignor.)						
Van Wagoner & Williams Hardware Company. (See Ring, James W., assignor.)						
Van Wagoner & Williams Hardware Company. (See Wetmore, Jerome W., assignor.)						
Van Wart, James A., <i>et al.</i> (See Bustin, Robert, assignor.)						
Van Wechel, William S., and D. L. Wylie, Orange City, Iowa. Band-cutter and feeder.....	519,211	May 1	491	119	67	632
Van Wickel, Frederick D., Corona, N. Y. Cigar-holder.....	522,092	June 26	2381	573	67	1682
Van Wie, Charles H., Albany, N. Y. Bottle.....	529,762	Nov. 27	2203	525	69	1095
Van Wormer, Everington J., Lynxville, Wis. Attachment for clothes-lines.....	516,068	Mar. 6	545	127	66	1554
Van Wormer, John R., Toledo, Ohio. Addresser.....	523,025	July 17	1475	367	68	310
Van Wyck, Timothy C., Brooklyn, N. Y. Axle-box.....	520,907	June 5	279	67	67	1249

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Van Zandt, Irving W. (See Getty, Fred I., assignor.)						
Vance, Emery J. (See Leaver, James M., assignor.)						
Vance, Emery J. (See Leaver and Vance.)						
Vandegrift, James A. (See Ashwell and Vandegrift.)						
Vandegrift, Theodore F., Shelbyville, Ind. Belt tightener and shifter	512,850	Jan. 16	1901	449	66	387
Vandenburgh, Philip, Cleveland, Ohio. Making dry adhesive paste	521,517	June 19	1376	.....	67	1479
Vander Molen, Joe. (See Veen and Dornberg, assignors.)						
Vander Weyde, Henry, London, England. Method of and lens for making photographs	521,064	June 5	557	130	67	1298
Vander Weyde, Peter H., and O. Lugo, assignors to C. H. Jackson, New York, N. Y. Purification and decoloration of saccharine solutions	512,133	Jan. 2	669	160	66	128
Vanderburgh, Charles W., Wellington, Canada. Steam-generator	521,062	June 5	553	130	67	1297
Vanderburgh, J. Harvey, Orono, Canada. Cloth-measuring machine	520,463	May 29	2656	642	67	1091
Vanderburg, Robert B., Long Beach, assignor of three-fourths to L. J. Painter, Saticoy, Cal. Saucenap	513,221	Jan. 23	2475	597	66	565
Vanderburg, Robert B., Long Beach, assignor of three-fourths to L. J. Painter, Saticoy, Cal. Soldering-iron	513,222	Jan. 23	2476	598	66	565
Vanderhoef, Thomas H. (See Wiggins and Vanderhoef.)						
Vanderman, William, Willimantic, Conn. Sectional boiler	522,441	July 3	467	{ 118 119 }	68	93
Vanderman, William, Willimantic, Conn. Hot-water heater	522,499	July 3	549	140	68	108
Vanderman, William, Willimantic, Conn. Coupling for water-closets	529,146	Nov. 13	1117	{ 270 271 }	69	870
Vandermeulen, Albert, <i>et al.</i> (See Vandermeulen, Daniel, assignor.)						
Vandermeulen, Daniel, assignor of two-thirds to A. and W. Vandermeulen, Grand Rapids, Mich. Furniture-clamp	513,027	Jan. 16	2186	521	66	438
Vandermeulen, William, <i>et al.</i> (See Vandermeulen, Daniel, assignor.)						
Vandivier, John H., <i>et al.</i> (See Terhune, Eugene A., assignor.)						
Vandyke, Edward B., <i>et al.</i> (See Parry, John A., assignor.)						
Vanes, John, Brazil, Ind. Boiler	527,631	Oct. 16	1568	379	69	319
Vanhouten, Harriet A., Paterson, N. J. Ice-pick	530,866	Dec. 11	1376	328	69	1481
Vanhouweling, Arthur, Olivet, Iowa. Straw-stacker	518,637	Apr. 24	2075	517	67	424
Vanier, Francis N., assignor of one-half to A. N. Parry, Amesbury, Mass. Carriage	527,909	Oct. 23	2051	492	69	424
Vankirk, Conent N., and C. W. Blay, Janesville, Wis. Chair	515,382	Feb. 27	2335	579	66	1336
Vann, John T., Lexington, N. C. Automatic fan	513,288	Jan. 23	2594	629	66	589
Vann, William J., <i>et al.</i> (See Howell, Felix T., assignor.)						
Vannette, Jasper, assignor of one-half to C. J. and G. S. Yingling, Tiffin, Ohio. Sewing-machine	526,470	Sept. 25	2023	{ 482 483 }	18	1560
Vanorman, Oliver, assignor of one-half to F. J. Cooper, Los Angeles, Cal. Carburetor. (Reissue)	11,430	July 10	1342	333	68	271
Vanvactor, David E., Argos, Ind. Weather-strip	524,427	Aug. 14	810	198	68	826
Vanvorce, Elizabeth B., Madison, Ill. Pipe connection	528,045	Oct. 23	2301	555	69	470
Vare, Thomas W., Trenton, N. J. Vise-jaw	525,243	Aug. 28	2203	536	68	1106
Varing, Frank F., Scales Mound, Ill. Wagon end-gate	524,741	Aug. 21	1324	324	68	934
Varley, John J., London, England. Stopper for bottles, jars, &c	525,370	Sept. 4	89	23	68	1167
Varley, John J., London, England. Manufacture of screw-stoppers	527,517	Oct. 16	1385	337	69	286
Varley, Richard, Jr., Englewood, N. J. Machine for winding electro-magnets	512,769	Jan. 16	1758	{ 417 418 }	66	360
Varley, Richard, Jr., Englewood, N. J. Electric bell	525,169	Aug. 28	2099	511	68	1067
Varley, William. (See Goss and Varley.)						
Varney, Edward G., Hartland, Me. Safety attachment for spinning-mules	517,314	Mar. 27	2649	622	66	1999
Varney, George S. (See Paige, James H., assignor.)						
Varney, Nathan E., assignor of one-half to L. L. and J. A. Moore, Denver, Colo. Miner's spooning-tool	531,347	Dec. 25	2244	535	69	1669
Varney, William W., Baltimore, Md. Automatic ventilating-valve	525,729	Sept. 11	712	{ 164 165 }	68	1294
Varrell, John F., Marblehead, Mass. Key-fastener	525,371	Sept. 4	90	23	68	1167
Vassiliades, Constantino D., New York, N. Y. Forming letters or other designs on cardboard	522,442	July 3	469	119	68	93
Vaunlain, Samuel M., Philadelphia, Pa. Method of and apparatus for counterbalancing wheels	531,487	Dec. 25	2493	594	69	1717
Vaunlain, Samuel M., and K. Rushton, Philadelphia, Pa. Combined starting and drip valve mechanism for compound engines	515,725	Feb. 27	2878	{ 718 719 }	66	1441
Vaughan, Aaron C., Rockford, Ohio. Nut lock	516,285	Mar. 13	898	212	66	1637
Vaughan, David F., Haddonfield, N. J. Railway-switch	521,743	June 19	1756	416	67	1550
Vaughan, David F., Haddonfield, N. J. Railway-frog	526,548	Sept. 25	2137	512	68	1581
Vaughan, Edwin W., and E. J. Watson, assignors to Washburn & Moen Manufacturing Company, Worcester, Mass. Wire-swaging machine	524,742	Aug. 21	1325	324	68	934
Vaughan, Hiram G., San Francisco, Cal. Shaft attachment for buggies	530,251	Dec. 4	308	77	69	1271
Vaughan, John W., Taylorsville, Ind. Grinding-mill	515,181	Feb. 20	1975	493	66	1256
Vaughan, John W., Taylorsville, Ind. Roller-mill	526,795	Oct. 2	209	50	69	39
Vaughan, William, Jr., assignor of one-half to W. Latham, Passaic, N. J. Door and hinge	521,772	June 19	1825	435	67	1561
Vaughan, William B., Owensville, Mo. Saw	529,538	Nov. 20	1843	439	69	1021
Vaughn, Ira, Salem, Mass., assignor to Vaughn Machine Company, Portland, Me. Apparatus for treating hides or skins	525,372	Sept. 4	91	23, 24	68	1167
Vaughn, John H., <i>et al.</i> (See Reynolds, Joseph A., assignor.)						
Vaughn Machine Company. (See Vaughn, Ira, assignor.)						
Vaupel, Henry. (See Gérard, Joseph, assignor.)						
Vautier, John J., Brooklyn, assignor of one-half to J. G. Law, New York, N. Y. Attaching-socket for tubing	530,563	Dec. 11	880	216	69	1392
Vantin, Claude T. J., London, England. Making aluminum sulfid	513,660	Jan. 30	3235	.....	66	742
Vantin, Claude T. J., London, England. Electrolytic cell	513,661	Jan. 30	3235	794	66	742
Vantin, Claude T. J., London, England. Process of and apparatus for the production of caustic alkali	531,235	Dec. 18	2041	{ 486 487 }	69	1616
Vantin, Claude T. J., London, England, assignor of one-half to C. J. C. Wichmann, Hamburg, Germany. Making cyanids of alkaline metals	526,592	Sept. 25	2202	.....	68	1594
Vauzelle, Emile J., Paris, France. Device for fixing pneumatic tires to wheel-rims	519,165	May 1	404	.....	67	615
Vawter, Charles E., Crozet, Va. Perpetual calendar	529,979	Nov. 27	2573	{ 620 621 }	69	1165
Vawter, William A. (See Copeland and Stoelting, assignors.)						
Vayre, Henri. (See Narjot, Ernest, assignor.)						
Veazie, Henry A., New Orleans, La. Pencil holder and sharpener	521,744	June 19	1758	417	67	1550
Vedovelli, Edouard, Paris, France, assignor to H. Guinard, New York, N. Y. Electric-lamp shade	528,241	Oct. 30	2652	639	69	548

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Veeder, Curtis H., Lynn, Mass., assignor to General Electric Company, of New York. Trolley mechanism for electrically-propelled vehicles.....	511,824	Jan. 2	119	29	66	26
Veeder, Curtis H., and E. D. Priest, Lynn, Mass., assignors to General Electric Company, of New York. Fluid-pressure regulator.....	523,873	July 31	2964	738	68	614
Veen, John, and F. A. Dornberg; said Dornberg assignor to J. Vander Molen, Grand Rapids, Mich. Roofing-tile.....	518,294	Apr. 17	1478	369	67	303
Vegiard, James T., assignor to himself, G. Q. Packer, and T. H. Cundy, Plainfield, N. J. Furniture-caster.....	523,801	July 31	2836	705	68	590
Veigel, Charles W. (See Knoepfel, Jacob, assignor.)						
Veitch, William, Kansas City, Mo. Tailor's adjustable measure.....	517,079	Mar. 27	2261	535	66	1923
Veith, Albert, <i>et al.</i> (See Betsch, Charles, assignor.)						
Veith, Hugo G., <i>et al.</i> (See Betsch, Charles, assignor.)						
Vellenoweth, Harry, Philadelphia, Pa. Filter and connection with faucets or water-supply	524,007	Aug. 7	68	15	68	674
Velson, Elizabeth M., Brooklyn, N. Y. Marble-shooting toy.....	518,295	Apr. 17	1479	370	67	303
Venison, Harry. (See Zweig, John, assignor.)						
Venker, John B. (See Arnold, Venker, and Barnard.)						
Venour, James M. H. (See Turner and Venour.)						
Venus, John E. (See Wright and Venus.)						
Verdon, Henry W., London, England. Pneumatic-tired wheel.....	529,001	Nov. 13	876	206	69	826
Verhage, Henry. (See Derham, Samuel G., assignor.)						
Verity, John, Bramley, England. Construction of couplings for screw-propellers.....	527,632	Oct. 16	1571	379	69	320
Verley, Horace S. L., Hoboken, N. J. Relay.....	519,142	May 1	356	85	67	607
Vermilion, Frank A. (See Vermilion, Joseph W., F. A., S. L., and P. P.)						
Vermilion, Joseph W., F. A., S. L., and P. P., assignors of one-fifth to S. W. Vermilion, Newark, Ohio. Cutter-bar for mowing machines.....	512,770	Jan. 16	1761	418	66	360
Vermilion, Perry P. (See Vermilion, Joseph W., F. A., S. L., and P. P.)						
Vermilion, Smith W. (See Vermilion, Joseph W., F. A., S. L., and P. P., assignors.)						
Vermilion, Stephen L. (See Vermilion, Joseph W., F. A., S. L., and P. P.)						
Vernay, Jean B., Lyons, France. Apparatus for the manufacture of bottles or other glass articles.....	523,607	July 24	2472	621	68	507
Vernaud, Claudius, Quincy, Ill. Truss.....	528,046	Oct. 23	2302	555	69	470
Vernier, Julius J., Toledo, Ohio. Holder for sharpening gravers' or other tools.....	530,735	Dec. 11	1171	285	69	1442
Vernon, Alfred M. (See Moore, Silas H., assignor.)						
Vernon, Charles. (See Lones, Vernon, and Holden.)						
Vernon, Joseph I., Mansfield, assignor of one-half to W. F. Ellis, Somerville, Mass. Rail-way-switch.....	522,568	July 3	671	170 } 171 }	68	130
Vernon, William E., Oskaloosa, Iowa. Fluid-fuel burner.....	525,569	Sept. 4	424	101	68	1230
Vernon, William E., San Angelo, Tex. Water-power.....	530,370	Dec. 4	520	129	69	1309
Vernon, William G., assignor to Philadelphia Lawn Mower Company, Philadelphia, Pa. Lawn-mower.....	524,077	Aug. 7	182	4	68	695
Vero, Charles, Atherstone, England. Veneering hats.....	522,539	July 3	616	157	68	121
Verran, Francis D., Republic, Mich. Brake.....	522,682	July 10	868	214	68	183
Verrell, Charles F., Grand Rapids, Mich. Dust-arrester.....	522,923	July 10	1281	317	68	258
Very, Alpha O., assignor to Warwick Cycle Manufacturing Company, Springfield, Mass. Adjustable handle-bar.....	526,333	Sept. 18	1754	416	68	1499
Vesian, John S. E. de. (See Tyler and Vesian.)						
Vestal, Warner L., San Bernardino, Cal. Flower-pot.....	515,032	Feb. 20	1744	440	66	1213
Via, William K. (See Cummings, Woodson R., assignor.)						
Vickers, Joseph. (See Rishworth, Ingham, and Vickers.)						
Vickers, Robert E., <i>et al.</i> (See Kirtley, Harry L., assignor.)						
Victor, Jacob, Winona, Minn. Valve.....	529,051	Nov. 13	959	227	69	840
Victor Safe and Lock Company. (See Baum, Jacob, assignor.)						
Vicuña, Alfredo O., Vallenar, Chile. Process of and furnace for smelting copper.....	525,773	Sept. 11	784	181	68	1307
Vidal, Adolph E., and G. Hervieu, London, England. Electric clock-winding mechanism.....	521,396	June 12	1140	269 } 270 }	67	1419
Vidal, Raymond, Paris, France. Black dye.....	523,138	July 17	1671	133 } 134 } 135 }	68	347
Vierengel, Matthew, Brooklyn, N. Y. Printing-machine.....	528,830	Nov. 6	557	133 } 134 } 135 }	69	748
Vierling, Joseph, assignor of one-half to A. Zinn, Allegheny, Pa. Binder or tie-up for pages of type.....	512,924	Jan. 16	2027	481	66	410
Vigneron, Adolphus T., Providence, R. I. Type-writing machine.....	524,290	Aug. 7	545	130	68	759
Vincent, Joseph A., <i>et al.</i> (See Walker and Carter, assignors.)						
Vine, George, Ansonia, Conn. Roll-turning machine.....	522,924	July 10	1282	317	68	258
Viney, Frederick C., Philadelphia, Pa. Gas-meter.....	521,745	June 19	1759	417	67	1550
Vinning, Mozart, assignor to High Pressure Fire-Main Company, Limited, London, England. Fire extinguishing apparatus.....	513,351	Jan. 23	2690	652	66	607
Vinton, John H., Boston, Mass., assignor to Trimont Manufacturing Company, Portland, Me. Chain-wrench.....	522,136	June 26	2464	591	67	1697
Vinton, John H., Boston, Mass., assignor to Trimont Manufacturing Company, Portland, Me. Nipple-holder.....	527,031	Oct. 2	590	143	69	111
Vis, Gerhard N., assignor to Dahl & Co., Barmen, Germany. Orthooxyethyl-alpha-benzoylamido-quinolin.....	512,590	Jan. 9	1428	.....	66	281
Vis, Martha, <i>et al.</i> (See Hall and Baker, assignors.)						
Vittum, Charles N., Meredith, N. H. Lock.....	526,878	Oct. 2	347	86	69	65
Virian, Charles, Lemont, Ill. Scraping or digging apparatus.....	522,443	July 3	469	119	68	93
Voegtli, Theodore, Rosedale, Kans., assignor to W. Small, Jr., Kansas City, Mo. Antifriction journal-bearing.....	524,920	Aug. 21	1624	398	68	987
Voegtli, Frank L., and J. Schroeffer, Allegheny, Pa. Stove.....	515,065	Feb. 20	1793	453	66	1222
Vogan, George L. (See Vogan, John H. and G. L.)						
Vogan, John H. and G. L., New Castle, Pa. Draw-bar for cars.....	512,925	Jan. 16	2029	481	66	410
Vogel, Charles W., Lima, Ohio. Lounge-bed.....	523,608	July 24	2475	622	68	508
Vogel, Gustav, Orange Valley, N. J. Row-boat.....	528,702	Nov. 6	319	78	69	704
Vogel, Peter, and W. M. Schrock, Somerset, Pa. Boomerang gun.....	515,309	Feb. 20	2199	545	66	1299
Vogelsang, Hermann, Dülken, Germany, assignor to Gibbs Loom, Harness and Reed Company, Clinton, Mass. Heddle for looms.....	527,165	Oct. 9	798	194	69	163
Vogler, William, Somerville, Mass. Seat or cushion.....	527,633	Oct. 16	1572	380	69	320
Vogler, William, Somerville, Mass. Pillow or cushion.....	527,634	Oct. 16	1574	380	69	320
Vogt, Alonzo L., assignor to himself and E. G. Lybrand, Delaware, Ohio. Annunciator system.....	513,352	Jan. 23	2691	653	66	607
Vogt, Henry, Louisville, Ky. Bracket-carrier for boilers.....	530,811	Dec. 11	1286	311	69	1465
Vogt, Mary M., Rochester, N. Y. Device for teaching vocal music.....	528,310	Oct. 30	2772	669	69	570
Vogt, Paul A. (See Coupal and Vogt.)						
Vogt, Wilhelm, assignor to G. H. Holgate, Philadelphia, Pa. Ice-cream freezer.....	518,829	Apr. 24	2413	597	67	484

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Voigt, Otto H. C., Lubeck, Germany. Sled-propeller	519,596	May 8	1191	288	67	776
Voisard, Louis F., Louisville, assignor of one-half to E. E. Miller, Cleveland, Ohio. Duplex steam-engine	526,645	Sept. 25	2296	549 550	68	1611
Voitek, John S., New York, N. Y. Packaging-machine	513,692	Jan. 30	3280	807 808	66	751
Voitek, John S., New York, N. Y. Packaging-machine	531,073	Dec. 18	1729	411 412 413	69	1560
Voll, George, Cincinnati, Ohio. Sash-fastener	523,090	July 17	1558	391	68	326
Voll, Henry, assignor to J. Foos, Springfield, Ohio. Gas-engine	527,635	Oct. 16	1575	380	69	321
Vollmer, William G., Buffalo, N. Y. Closet-seat	515,508	Oct. 23	1880	451	69	393
Völlner, Georg, Berlin, Germany. Apparatus for ascertaining the capacity of hollow vessels	516,248	Mar. 13	845	197	66	1626
Vollrath, Andrew J., Sheboygan, Wis. Enameling ironware	515,507	Feb. 27	2524	625	66	1371
Vollrath, Andrew J., Sheboygan, Wis. Making enameled ironware	515,508	Feb. 27	2526	66	1371	
Vollrath, Andrew J., Sheboygan, Wis. Enameled ironware and process of enameling	515,981	Mar. 6	401	93	66	1527
Vollrath, Jacob J., Sheboygan, Wis. Vehicle-body	520,126	May 22	2071	505	67	966
Vohn, August, St. Louis, Mo. Dust-arrester	526,334	Sept. 18	1755	416	68	1499
Von Bokern, William, assignor of one-half to H. Heatley, Denver, Colo. Bottle	524,694	Aug. 14	1244	307	68	906
Von Bokern, William, assignor of one-half to H. Heatley, Denver, Colo. Bottle	529,821	Nov. 27	2309	550	69	1116
Voorhees, Charles E. (See Fisher, Asahel H., assignor.)						
Voorhees Electric Company. (See Voorhees, Gardner T., assignor.)						
Voorhees, Gardner T., Boston, Mass. Arc-rupturing device	523,697	July 31	2647	656	68	555
Voorhees, Gardner T., Boston, Mass. Insulating-covering for refrigerative purposes	530,214	Dec. 4	244	69	1260	
Voorhees, Gardner T., assignor, by mesne assignments, to Voorhees Electric Company, Boston, Mass. Fluid-tank	512,416	Jan. 9	1145	273	66	228
Voorhees, Jeremiah F., Philadelphia, Pa. Valve for air-brakes	521,996	June 26	2234	537	67	1654
Voorhees, Jeremiah F., Philadelphia, Pa. Air-brake for cars	524,050	Aug. 7	130	30	68	686
Voorhees, Jeremiah F., Philadelphia, Pa. Air-brake for cars	525,876	Sept. 11	985	221 222	68	1343
Vorhes, Charles H., assignor to Michigan Buggy Company, Kalamazoo, Mich. Vehicle-body	511,825	Jan. 2	121	29	66	26
Voris, Cornelia A. (See Frost, Floyd T., assignor.)						
Vorwerk, John. (See Harvey and Amos, assignors.)						
Vosburgh, John L. (See Brooks and Wolfreys, assignors.)						
Vosburgh, John L. (See Hall, Alfred, assignor.)						
Vose, Ambrose S., Boston, Mass. Rotary trimmer	528,311	Oct. 30	2773	669	69	570
Vose, George L. (See Jencks, Walter P., assignor.)						
Vose, William T., Newton, Mass. Guard for street-railways	523,921	July 31	3047	761	68	630
Voss, Dettlef C., Boston, Mass. Incandescent lamp	521,131	June 5	672	158	67	1318
Voss, Edmund, New York, N. Y. Ventilator	515,562	Feb. 27	2616	640	66	1389
Voss, Henry, Jersey City, N. J. Centerboard	528,749	Nov. 6	396	94, 45	69	718
Voss, Joseph H., Cincinnati, Ohio. Cash-register	529,980	Nov. 27	2575	621	69	1165
Voss, William, assignor to Barney & Smith Car Company, Dayton, Ohio. Truck for vehicles	515,099	Feb. 20	1836	463	66	1231
Vraalstad, Edward J., Hillsborough, N. D. Band-cutter and feeder	521,195	June 12	765	184	67	1352
Vroman, Nordill N., Winside, Nebr. Wind-wheel	516,618	Mar. 13	1463	346	66	1741
Vrooman, F. H. (See Wemple, Mark, assignor.)						
Vulcan Brass Company. (See Lowe and Guyser, assignors.)						
Vulcan Iron Works Company. (See Webber, John B., assignor.)						
Vyne, Gerrit, Wilkesborough, N. C. Steam-engine	514,396	Feb. 6	701	177 178	66	985
W. Dewees Wood Company. (See Wood, Richard G., assignor.)						
W. & E. T. Fitch Company. (See Bristol, Charles B., assignor.)						
W. F. & John Barnes Company. (See Barnes, Benjamin F., assignor.)						
W. F. & John Barnes Company. (See Barnes, William F., assignor.)						
W. S. Tyler Wire Works Company. (See White, Joseph W., assignor.)						
Waage, Peter, assignor to Aktieselskabet Norsk Fiskemel Company, Christiania, Norway. Making fish meal	518,748	Apr. 24	2284	567	67	460
Wachtel, Charles, Newark, N. J. Electric fan	525,730	Sept. 11	714	165	68	1294
Wachtler, Louis, Altenburg, Germany. Pipe-wrench	516,286	Mar. 13	899	212	66	1637
Wackermann, Frank, Pittsburg, Pa. Recoil-operated firearm	516,417	Mar. 13	1119	266	66	1677
Waddell, John M., Greenfield, Ohio. Locking device for show-cases	529,886	Nov. 27	2412	579	69	1136
Waddell-Entz Company. (See Waddell and Entz, assignors.)						
Waddell-Entz Company of West Virginia. (See Phillips and Entz, assignors.)						
Waddell, Harry D., et al. (See McCarthy, Joseph J. and C. A., assignors.)						
Waddell, John, Eagle Grove, Iowa. Table	531,236	Dec. 18	2042	487	69	1616
Waddell, John, assignor to Waddell Manufacturing Company, Grand Rapids, Mich. Pivoted catch	512,996	Jan. 16	2141	509	66	431
Waddell, John A. L., Kansas City, Mo. Truss-bridge	529,220	Nov. 13	1250	301	69	892
Waddell Manufacturing Company. (See Waddell, John, assignor.)						
Waddell, Montgomery, Bridgeport, Conn. Dynamo and motor	514,047	Feb. 6	115	27	66	875
Waddell, Montgomery, Bridgeport, Conn., assignor to M. Waddell, receiver. Adjuster for field-magnets of dynamo-electric machines or motors	527,225	Oct. 9	893	217	69	182
Waddell, Montgomery, Bridgeport, Conn., assignor to M. Waddell, receiver. Belt-tightener	528,242	Oct. 30	2652	639	69	548
Waddell, Montgomery, Bridgeport, Conn., assignor to M. Waddell, receiver. Rheostat	528,243	Oct. 30	2653	640	69	549
Waddell, Montgomery, and J. B. Entz, Bridgeport, Conn., assignors to Waddell-Entz Company, of West Virginia. Armature for dynamo-electric machines	516,170	Mar. 6	701	165	66	1584
Waddington, Alfred, assignor to S. Bottomley & Brothers, Limited, Bradford, England. Shuttle-guard for looms	529,763	Nov. 27	2203	525	69	1095
Waddington, George W. (See McGregor and Waddington.)						
Waddington, William A. (See McGregor and Waddington.)						
Wade, Albert G., Elkhart, Ind. Plate and base for printing	530,371	Dec. 4	521	129	69	1310
Wade, Alzira H., Minneapolis, Minn. Abdominal supporter	517,941	Apr. 10	856	215	67	178
Wade, Asa, McCool, Miss. Seed-planter	524,474	Aug. 14	880	217	68	840
Wade, Charles A. (See Davis, Jesse R., assignor.)						
Wade, Edward E., San Francisco, Cal. Fruit-carrier	524,568	Aug. 14	1037	255	68	868
Wade, James R., St. Louis, Mo. Hydraulic elevator	532,221	Oct. 30	2719	655 656	69	561
Wadleigh, George E. (See Sly, Charles N., assignor.)						
Wadley, Hun G., Wytheville, Va. Lumber-handling apparatus for drying-kilns	523,609	July 24	2478	622	68	508
Wadsworth, George H. (See Armstrong and Wadsworth.)						
Wadsworth, George H., and H. W. Avery, assignors to Avery Stamping Company, Cleveland, Ohio. Pressed-steel seat	526,273	Sept. 18	1646	388	68	1477

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Waeber, Gustavus A., <i>et al.</i> (See Busch, Frederic C., assignor.)						
Waesoh, John F., Los Angeles, Cal. Key-holder	516,320	Mar. 13	948	223	66	1647
Wagandt, Charles L., Baltimore, Md. Socket for sheet-metal vessels	525,637	Sept. 4	524	127	68	1249
Wagemann, Hermann O. C. E., assignor of three-fourths to C. F. Orthwein, St. Louis, Mo. Multiphase converter	526,063	Sept. 18	1386	298	68	1410
Wagemann, Hermann O. C. E., assignor of three-fourths to C. F. Orthwein, St. Louis, Mo. Electric generator	526,064	Sept. 18	1287	298 299	68	1411
Wagener, Christian J., Pittsburg, Pa. Rail-guard for vehicle-wheels	515,540	Feb. 27	2586	640	66	1383
Wagener, Oscar, assignor to Industrial Chain Company, St. Mary's, Ohio. Furnace	516,748	Mar. 20	1699	402	66	1800
Wagenführ, Charles, Brooklyn, N. Y. Die	523,300	July 17	1950	490	68	397
Waggoner, Benjamin F. (See Waggoner, Thomas T., assignor.)						
Waggoner, Jephth L., Columbus, and W. T. Carmichael, Wailesborough, Ind. Tool-chest	518,296	Apr. 17	1480	370	67	303
Waggoner, Thomas T., assignor of one-half to B. F. Waggoner, St. Louis, Mo. Reversing-gear and governor	529,981	Nov. 27	2579	621 622	69	1166
Wagner, Albert C., Chicago, Ill. Meat-tenderer	520,173	May 22	2176	530	67	984
Wagner, Alfred B., and E. Liesenhoff, Miamisburg, Ohio. Shelving	521,626	June 19	1563	365	67	1512
Wagner, Caspar, Milwaukee, Wis. Crimping-machine	520,097	May 22	2021	493	67	957
Wagner, Charles, New York, N. Y. Valve for oil-cans	529,221	Nov. 13	1251	301	69	893
Wagner, Franz X. (See Wagner, Herman L., assignor.)						
Wagner, Fred E., Chicago, Ill. Adjustable window-shade fixture	523,559	July 24	2402	602	68	495
Wagner, George F., Philadelphia, Pa. Lawn-edge trimmer	517,942	Apr. 10	857	216	67	179
Wagner, George G. (See Seiler and Emig, assignors.)						
Wagner, Gustavus G., assignor to Interior Conduit and Insulation Company, New York, N. Y. Electric-arc lamp	514,139	Feb. 6	254	62, 63	66	902
Wagner, Henry, Toledo, Iowa. Halter	514,523	Feb. 13	915	232	66	1043
Wagner, Herman L., Brooklyn, assignor to F. X. Wagner, New York, N. Y. Type-writing machine	523,698	July 31	2648	656 657 658	68	555
Wagner, Hubert, Jr., assignor of two-thirds to J. B. and W. Wagner, Burlington, Wis. Hammock-support	514,740	Feb. 13	1283	319 320	66	1112
Wagner, Jacob, assignor of one-half to N. Wagner, Rimini, Mont. Power mechanism for pumps, &c.	525,373	Sept. 4	99	25	68	1168
Wagner, John B., <i>et al.</i> (See Wagner, Hubert, Jr., assignor.)						
Wagner, John C. (See Chappel and Wagner.)						
Wagner, John L., Terre Haute, Ind. Box-car door	512,074	Jan. 2	580	138	66	110
Wagner, Louis, Baltimore, Md. Meat-mixer	514,048	Feb. 6	117	27, 28	66	875
Wagner, Louis, Baltimore, Md. Expandible bung	517,781	Apr. 3	615	153	67	119
Wagner, Louis, assignor of one-half to J. Marr, Baltimore, Md. Vent-bung	516,667	Mar. 20	1558	370	66	1776
Wagner, Louis, assignor of one-half to J. Marr, Baltimore, Md. Pitching casks	517,400	Mar. 27	2823	662	66	2034
Wagner, Louis, and J. Marr, Baltimore, Md. Bunging apparatus	516,663	Mar. 20	1559	370 371	66	1776
Wagner, Louis, J. Marr, and H. Campbell, Baltimore, Md. Filtering or purification of liquids	517,499	Apr. 3	142	31	67	29
Wagner, Louis, J. Marr, and H. Campbell, Baltimore, Md.; said Campbell assignor to said Marr. Process of and apparatus for the manufacture of beer, ale, porter, &c.	524,744	Aug. 21	1323	325 326	68	934
Wagner, Matt, Tacoma, Wash. Centrifugal pump	531,074	Dec. 18	1733	413	69	1560
Wagner, Nikolaus. (See Wagner, Jacob, assignor.)						
Wagner, Philipp G., Darmstadt, Germany. Coin discharging and delivering device	520,623	May 29	2917	705 706	67	1139
Wagner, Romé V., <i>et al.</i> (See Wheeler, Fred A., assignor.)						
Wagner, Theodore, and W. Habermann, Milwaukee, Wis. Wagon-body	517,500	Apr. 3	144	31	67	30
Wagner, Walter, Chicago, Ill. Can-seaming machine	523,091	July 17	1560	391 392 393	68	326
Wagner, William, <i>et al.</i> (See Wagner, Hubert, Jr., assignor.)						
Wagoner, Charles, Worcester, N. Y. Combined line reel, fastener, and tightener	515,486	Feb. 27	2495	617	66	1366
Wahl, Albert, <i>et al.</i> , administrators. (See Van Depoele, Charles J.)						
Waibel, Fred L., <i>et al.</i> (See Schneider, George L., assignor.)						
Waidner, Fred, Mishawaka, Ind. Hinge for windmill-rudders	515,630	Feb. 27	2723	678	66	1411
Wain, Charles. (See Thompson and Wain.)						
Wain, James E., Manchester, England. Self-acting mule and twiner	518,433	Apr. 17	1738	431	67	350
Wainwright, George J., assignor of one-half to W. J. Wainwright, New York, N. Y. Pool-register	524,123	Aug. 7	263	61, 62	68	710
Wainwright, George J., assignor of one-half to W. J. Wainwright, New York, N. Y. Billiard time-register	524,124	Aug. 7	266	62	68	710
Wainwright, Lucius M., assignor to Central Cycle Manufacturing Company, Indianapolis, Ind. Bicycle-frame	519,783	May 15	1503	365	67	846
Wainwright Manufacturing Company of Massachusetts. (See Hall, Bicknell, assignor.)						
Wainwright, Walter J. (See Wainwright, George J., assignor.)						
Wainwright, William W., assignor to P. H. & F. M. Roots Co., Connersville, Ind. Journal-box	525,774	Sept. 11	786	181	68	1307
Wainwright, William W., assignor to P. H. & F. M. Roots Co., Connersville, Ind. Journal-box	525,775	Sept. 11	787	182	68	1307
Wainwright, William W., assignor to P. H. & F. M. Roots Co., Connersville, Ind. Packing-box for rotary blowers	525,776	Sept. 11	788	182 270 271	68	1308
Wait, William B., New York, N. Y. Writing-machine	521,397	June 12	1142	270 271	67	1420
Wait, William B., New York, N. Y. Writing-machine	529,571	Nov. 20	1897	451 452	69	1030
Wait, William B., New York, N. Y. Writing-machine	529,572	Nov. 20	1899	452 453	69	1031
Waite, Arthur H. (See Lowe, John H., assignor.)						
Waite, Charles N., Newton, Mass. Insulated conductor	512,417	Jan. 9	1146	278	66	928
Waite, Charles N., Rumford, Me. Diaphragm for electrolytic cells	523,026	July 17	1476	367	68	310
Waite, Frank H., Holley, N. Y. Keg or analogous package	519,426	May 8	992	240	67	739
Waite, Harry F., New York, N. Y. Influence-machine	514,524	Feb. 13	916	232	66	1043
Waite, Harry F., New York, N. Y. Electric device for pumping oil-wells	516,713	Mar. 20	1630	388	66	1788
Waite, Harry F., New York, N. Y. Electric-circuit regulator	520,908	June 5	280	67, 68	67	1349
Waite, Henry, <i>et al.</i> (See Boomhower, Eli E., assignor.)						
Waite, Henry E. (See Ethridge and Waite.)						
Waite, Henry E., assignor to H. C. Miner, trustee, New York, N. Y. Electrical theatrical appliance	513,850	Jan. 30	3530	869	66	800
Waite, William T. (See McCall, William W., assignor.)						
Waitt, George W., San Francisco, Cal., assignor to F. S. Dennis, Kingman, Ariz. Ter. Ore-concentrator	513,849	Jan. 30	3526	868	66	799
Wakefield, James A., assignor of one-half to Shailer & Schniglau Company, Chicago, Ill. Sheet-piling	527,469	Oct. 16	1311	320	69	274

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Wakefield, John E., Worcester, Mass. Pipe-wrench.	529,982	Nov. 27	2581	622	69	1166
Waldenberger, Emil, New York, N. Y. Combined pocket-book and cigar-case.	522,747	July 10	1007	249	68	206
Waldo Foundry. (See Gooch and Waldo, assignors.)						
Waldo Foundry. (See Sperry, Erwin S., assignor.)						
Waldo Foundry. (See Waldo and Gooch, assignors.)						
Waldo, Leonard. (See Gooch and Waldo.)						
Waldo, Leonard, Bridgeport, and F. A. Gooch, New Haven, Conn.; said Waldo assignor to Waldo Foundry, of New Jersey. Reducing aluminium.	527,846	Oct. 23	1927	463 464	69	401
Waldrep, Russell T., Tifton, Ga. Railway switch-frog.	529,983	Nov. 27	2582	632	69	1166
Waldron, George T., Quincy, Mass. Coin-released actuating mechanism for phonographs.	524,921	Aug. 21	1625	398	68	987
Waldron, William H., New Brunswick, N. J. Lath-feeder for paper-carriers.	514,794	Feb. 13	1367	344	66	1129
Waldron, William H., New Brunswick, N. J. Wall-paper-printing machine.	531,075	Dec. 18	1734	413 414	69	1560
Waldron, William H., New Brunswick, N. J. Wall-paper-printing machine.	531,076	Dec. 18	1736	414 415	69	1561
Waldstein, Bernard, New York, N. Y. Letter-elevator.	512,075	Jan. 2	582	138	66	111
Waldstein, Martin E., New York, N. Y., and A. H. Peter, Newark, N. J. Dyeing.	523,560	July 24	2103		68	495
Wales, Charles, Detroit, Mich. Coupler for organs.	531,077	Dec. 18	1740	415	69	1561
Wales, Thomas C., Jr., assignor to American Bell Telephone Company, Boston, Mass. Operator's telephone-circuit.	522,925	July 10	1284	318	68	258
Wales, Thomas C., Jr., assignor to American Bell Telephone Company, Boston, Mass. Telephone speaking-tube system.	531,078	Dec. 18	1741	415	69	1562
Wales, Walton H., <i>et al.</i> (See Rowlands, John R., assignor.)						
Walker, Joseph C., Syracuse, N. Y. Machine for molding confections.	524,097	Aug. 7	214	49, 50	68	701
Walker, Adoniram J., Dalton, Mass. Car-coupling.	525,036	Aug. 28	1848	451	68	1045
Walker, Albert H., trustee. (See Claussen, Edward E., assignor.)						
Walker, Albert H., trustee. (See Lorenz, William A., assignor.)						
Walker, Albert H., trustee. (See Lorenz and Claussen, assignors.)						
Walker, Alexander, What Cheer, Iowa. Self-dumping mechanism for coal-elevators.	517,782	Apr. 3	616	153 154	67	120
Walker, Charles C., Donnington, near Newport, England. Lid for gas-retorts.	523,137	June 26	2465	592	67	1693
Walker, Charles W., Strang, Nebr. Type-writing machine.	524,364	Aug. 14	698	170 171	68	805
Walker, David A., Jr., Charleston, S. C. Preserving citrous fruits.	524,008	Aug. 7	69		68	675
Walker, Edwin, Erie, Pa. Automatic cork-puller.	515,411	Feb. 27	2377	590	66	1343
Walker, Edwin, Erie, Pa. Cork-puller.	515,412	Feb. 27	2379	590	66	1344
Walker, Edwin, Erie, Pa. Advertising device.	524,745	Aug. 21	1333	326	68	935
Walker, Elias S., Duluth, Minn. Frame for duplicating apparatus.	516,139	Mar. 6	649	151	66	1574
Walker, Enos L., St. Louis, Mo. Fruit or berry box.	512,571	Jan. 9	1397	337	66	276
Walker, Fletcher L. (See Landin and Walker.)						
Walker, Frank, Los Angeles, Cal. Automatic flushing apparatus.	525,244	Aug. 28	2204	537	68	1107
Walker, Frank, San Francisco, Cal. Asphaltum or bitumen disintegrator.	527,636	Oct. 16	1576	381	69	321
Walker, Fred, Philadelphia, Pa. Rocker attachment for baby-carriages.	524,151	Aug. 7	320	75	68	720
Walker, Gabriel M., Macon, and O. Calhoun, Victor, Mo. Grain-band cutter.	515,066	Feb. 20	1793	453	66	1232
Walker, George H., Cincinnati, Ohio. Fluid-pressure regulator.	522,633	July 10	869	215	68	183
Walker, George K., Maquon, Ill. Tobacco-cutter.	524,622	Aug. 14	1129	277	68	886
Walker, Herbert C., <i>et al.</i> (See Graham, Simon P., assignor.)						
Walker, Hugh R. (See Roney, Alexander B., assignor.)						
Walker, Hugh R., Chicago, Ill. Locomotive ash-pan.	522,540	July 3	618	157	68	121
Walker, Irvin B., Sioux City, Iowa. Trolley-wire hanger.	526,492	Sept. 25	1943	464	68	1546
Walker, James C., Waco, Tex. Hydraulic propulsion of vessels.	512,591	Jan. 9	1429	344	66	281
Walker, James C., Waco, Tex. Rotary engine.	515,631	Feb. 27	2724	678 679	66	1411
Walker, James C., Waco, Tex. Wave-motor.	516,034	Mar. 6	494	114	66	1544
Walker, James C., Waco, Tex. Combined engine and superheater apparatus.	531,488	Dec. 25	2495	594 595	69	1718
Walker, James G. (See Combs, Andrew B., assignor.)						
Walker, John, Cleveland, Ohio. Bushing for drums or pulleys.	515,563	Feb. 27	2618	649 650	66	1389
Walker, John, and H. Carver, Pendleton, England. Wall-coating and manufacturing same.	531,579	Dec. 25	2646		69	1748
Walker, John E., assignor of one-third to E. W. Walker, Kansas City, Kans. Photographic vignetter.	519,800	May 15	1529	373	67	851
Walker, John J., Philadelphia, Pa. Steam packing for piston-rods.	525,434	Sept. 4	196	49	68	1147
Walker, Joseph, Birmingham, England. Toy.	530,142	Dec. 4	110	28	69	1235
Walker, Louis B., and J. F. Murphy, Globe, Ariz. Ter. Wind-jacket for blast-furnaces.	520,719	May 29	3093	748	67	1170
Walker, Micah, Port Huron, Mich. Ball-and-socket joint.	522,391	July 3	352	97	68	76
Walker, Oakley S., assignor of one-half to Norton Emery Wheel Company, Worcester, Mass. Bearing for emery-wheels.	521,836	June 26	1922	461	67	1596
Walker, Orlando O., and E. G. Moon, assignors to said Moon and C. S. McCloud, Bedford, Iowa. Portable cistern.	529,511	Nov. 20	1799	428	69	1012
Walker, R. W. (See Walker, John B., assignor.)						
Walker, Randall W., assignor to F. P. Brooks, Oxford, N. Y. Sleigh.	528,831	Nov. 6	573	136	69	750
Walker, Samuel, and L. Marshall, Milwaukee, Wis. Switch-actuating mechanism.	527,637	Oct. 16	1580	382	69	322
Walker, Samuel L. (See Fry and Walker.)						
Walker, Thomas, and J. F. Carter, assignors to J. A. Barham and J. A. Vincent, Philadelphia, Pa. Ore-roasting furnace.	516,781	Mar. 20	1740	409 410	66	1807
Walker, Thomas, and J. F. Carter, assignors to J. A. Barham and J. A. Vincent, Philadelphia, Pa. Ore-roasting furnace.	516,782	Mar. 20	1742	410	66	1807
Walker, Thomas, and J. F. Carter, assignors to J. A. Barham and J. A. Vincent, Philadelphia, Pa. Ore-roasting furnace.	516,783	Mar. 20	1744	411	66	1808
Walker, Thomas, and J. F. Carter, assignors to J. A. Barham and J. A. Vincent, Philadelphia, Pa. Ore-roasting furnace.	516,854	Mar. 20	1857	439	66	1831
Walker, Thomas B., <i>et al.</i> (See Landin and Walker, assignors.)						
Walker, William. (See Cochrane and Walker.)						
Walker, William, Jr., Birmingham, F. R. Wilkins, Handsworth, and J. Lones, Smethwick, England. Primary battery.	524,229	Aug. 7	444	104	68	742
Walker, William, Jr., Birmingham, and F. R. Wilkins, Handsworth, assignors of one-third to J. Lones, Smethwick, England. Primary voltaic battery.	524,291	Aug. 7	548	130	68	760
Walker, William, Jr., Birmingham, and F. R. Wilkins, Handsworth, assignors of one-third to J. Lones, Smethwick, England. Primary battery.	530,867	Dec. 11	1376	328	69	1481
Walker, William E., assignor to L. Griffith, C. F. Hunt, F. W. Rider, and J. F. La Fleur, Detroit, Mich. Fire-ladder.	524,495	Aug. 14	912	225	68	846
Walker, William H., and T. H. Boyce, New York, N. Y. Street-sweeper.	531,079	Dec. 18	1744	416	69	1562
Walker, William J., St. Louis, Mo. Wrench.	512,418	Jan. 9	1147	278	66	228
Walker, William J., Chicago, Ill. Pipe connection.	521,051	Aug. 7	134	30	64	687

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Walker, William J., Canton, Ohio. Device for grinding lawn-mower knives.....	526,824	Oct. 2	252	62	69	48
Walker, William J., assignor to Chicago Folding Box Company, Chicago, Ill. Paper box.....	524,078	Aug. 7	184	41	68	695
Walter, William T., deceased; M. Bailey, Washington, D. C., administrator. Apparatus for driving off volatile constituents from liquids.....	529,233	Nov. 13	1275	306	69	896
Walker, William T., deceased; M. Bailey, Washington, D. C., administrator. Apparatus for driving off volatile constituents from liquids.....	529,234	Nov. 13	1276	306	69	897
Walkley, Lucius V. (See Reising, Casper, assignor.)						
Walkup, J. W., et al. (See Lee, John C., assignor.)						
Wall, Ashbel T., et al. (See White, Joel W., assignor.)						
Wall, Frederic W., assignor of one-half to S. Martin and J. Harrison, Fort Worth, Tex. Hook and eye.....	522,541	July 3	620	158	68	122
Wall, George A., et al. (See White, Joel W., assignor.)						
Wall, George H., London, England. Ball-valve for water-gages.....	521,530	June 19	1402	324	67	1483
Wall, Jesse H. (See Jernigan, Henry R., assignor.)						
Wallace, Benjamin F., Independence, Mo. Sheet-music turner.....	523,420	July 24	2152	540	68	450
Wallace, Charles, Denver, Colo., assignor of two-thirds to C. A. Payne and W. E. Moses. Concentrator.....	522,172	June 26	2523	605 606	67	1709
Wallace, David. (See Zorn, John, assignor.)						
Wallace Electric Company. (See Wood, Montraville M., assignor.)						
Wallace, Frank, Philadelphia, Pa. Urinal.....	512,592	Jan. 9	1430	345	66	231
Wallace, Frank E., East Orange, N. J. Distilling apparatus.....	515,413	Feb. 27	2381	590	66	1344
Wallace, Frank E., East Orange, N. J. Ice-pitcher.....	515,632	Feb. 27	2726	679	66	1411
Wallace, Fredrick B., assignor to himself and C. H. Spencer, Orion, Mich. Nut-lock.....	518,474	Apr. 17	1807	447	67	363
Wallace, Harry G. (See Greble, Harvey K., assignor.)						
Wallace, Jacob B., Erie, Pa. Lighting device for gas-stove or other burners.....	516,904	Mar. 20	1943	458	66	1847
Wallace, Jacob B., Erie, Pa. Gas-burner for stoves.....	527,566	Oct. 16	1460	355	69	299
Wallace, Jacob B., Erie, Pa. Cock for gas-stoves, &c.....	527,567	Oct. 16	1461	356	69	300
Wallace, Jacob B., assignor to Metric Metal Company, Erie, Pa. Diaphragm gas-meter.....	512,135	Jan. 2	673	161	66	129
Wallace, James F. S., Canton, China. Flower-holder for buttonholes.....	516,954	Mar. 20	2028	480	66	1863
Wallace, James N., et al. (See Kinney, George F., assignor.)						
Wallace, Jeff D. (See Wallace, Lloyd and J. D.)						
Wallace, John, Union, Ill. Windmill.....	519,362	May 8	785	192	67	703
Wallace, John A. (See O'Hara, Henry, assignor.)						
Wallace, John G., Chicago, Ill. Return postal-card.....	520,816	June 5	109	24	67	1316
Wallace, Lloyd and J. D., Peoria, Tex. Ice-cream freezer.....	523,781	July 31	2793	694	68	582
Wallace, Thomas M., Marion, Ala. Bale-box clamp.....	528,047	Oct. 23	2305	556	69	470
Wallace, Thomas M., Marion, Ala. Combined belt-shifter and brake for cotton-presses.....	530,978	Dec. 18	1570	372	69	1530
Wallace, William, assignor of one-half to D. C. McMasters, Peoria, Tex. Compound car-coupling and bumper.....	526,796	Oct. 2	210	50	69	40
Wallace, William J. (See Thayer and Wallace.)						
Wallace, William W., Springfield, Mass. Piano-action.....	519,166	May 1	405	97	67	616
Wallace, William W., Willoughby, Ohio. Cut-off mechanism.....	526,274	Sept. 18	1647	388 389	68	1477
Wallace, William W., assignor to J. W. Penfield & Son, Willoughby, Ohio. Joint for toggle-arms.....	513,544	Jan. 30	3033	747 748	66	707
Wallace, William W., assignor to J. W. Penfield & Son, Willoughby, Ohio. Friction-clutch pulley.....	516,882	Mar. 20	1902	449	66	1840
Wallace, William W., assignor to J. W. Penfield & Son, Willoughby, Ohio. Die or mold for clay-product machines.....	519,801	May 15	1530	373	67	851
Wallace, William W., and R. C. Penfield, Willoughby, Ohio. Cut-off table for brick-machines.....	515,383	Feb. 27	2336	580	66	1336
Wallach, Willy, Paris, France. Brush.....	523,058	July 17	1516	379	68	318
Wallenberg, Augustinus, Chicago, Ill. Artificial stone.....	517,811	Apr. 3	660		67	128
Waller, Elwyn, and C. A. Sniffin, New York, N. Y., assignors to Amorphous White Lead Company, of New Jersey. Making white lead.....	525,826	Sept. 11	892		68	1325
Wallingford, James R., and T. Forhan, Cortland, Nebr. Corn-harvester.....	512,771	Jan. 16	1762	418	66	360
Wallington, George P. (See Beaumont and Wallington.)						
Wallington, Laurence A. (See Beaumont and Wallington, assignors.)						
Wallis, Fred, and G. Galbraith, Rochester, N. Y. Filling-machine.....	525,827	Sept. 11	892	199	68	1325
Wallis-Lispensard Cotton Picker and Machinery Company. (See Lispensard, George, assignor.)						
Wallmann, Johannes. (See Schmitz and Wallmann.)						
Wallow, C. H. (See Hamblin, Albert G., assignor.)						
Walls, William H., assignor of one-half to M. Becker and H. Mueller, St. Louis, Mo. Street-sweeper.....	518,168	Apr. 10	1248	313 314 315	67	243
Walmsley, Sylvester P. (See Williams, Orion H., assignor.)						
Walmsley, Sylvester P., New Orleans, La. Turnstile.....	517,080	Mar. 27	2262	535	66	1924
Walmsley, Thomas L., and H. H. Wright, Denver, Colo. Dry placer machine.....	520,745	May 29	3131	758	67	1177
Walrad, George O., et al. (See Brien, Theodore R., assignor.)						
Walrath, Alvin, Little Falls, N. Y. Machine for sewing on buttons.....	522,832	Nov. 6	574	136	69	750
Walrath, Jesse, Racine, Wis. Explosive gas-engine.....	522,811	July 10	1103	272 273 274	68	224
Walrath, Robert, assignor of one-half to C. R. Casler, Little Falls, N. Y. Trowel.....	515,890	Mar. 6	251	59	66	1501
Walsh, Francis A., Milwaukee, Wis. Sheet-metal-working machine.....	512,342	Jan. 9	1009	247	66	202
Walsh, Harry H. (See Long and Walsh.)						
Walsh, James, Jr., Philadelphia, Pa. Nut-locking device.....	514,397	Feb. 6	703	178	66	985
Walsh, James, Jr., Philadelphia, Pa. Valve.....	524,922	Aug. 21	1627	399	68	987
Walsh, John G., New York, N. Y. Combined drawer and shipping-box.....	525,972	Sept. 11	1140	239	68	1371
Walsh, Philip J., Jr., Philadelphia, Pa. Circuit-closing device.....	522,632	July 10	792	199	65	169
Walsh, Ralph, Washington, D. C. Device for dividing powders, &c.....	531,237	Dec. 13	2043	487	69	1616
Walsh, Richard, Sherman, Tex. Punching-machine.....	524,623	Aug. 14	1130	278	68	886
Walsh, Robert, Pittsburg, Pa. Smoke-consuming furnace.....	515,384	Feb. 27	2338	580	66	1337
Walsh, Thomas, Montreal, Canada. Attachment for shovels, spades, &c.....	519,515	May 8	1033	250	67	747
Walsh, Timothy, and D. Keogh, Highlands, Colo. Flush-tank.....	529,512	Nov. 20	1800	428	69	1012
Walter A. Wood Harvester Company. (See Courtney, John J., assignor.)						
Walter A. Wood Mowing and Reaping Machine Company et al. (See Lowry, George A., assignor.)						
Walter, George P., Brownwood, Tex. Washing-machine.....	513,374	Jan. 23	2726	602	68	614
Walter, Harry, assignor to G. W. Teufel, Philadelphia, Pa. Tooth or bone cutter.....	512,461	Jan. 9	1233	298	66	245
Walter, Horace E., Richfield Springs, N. Y. Electric signal apparatus.....	529,984	Nov. 27	2583	623 624	69	1167
Walter, Horace E., Richfield Springs, N. Y. Electric signaling apparatus.....	529,985	Nov. 27	2597	624 625	69	1171
Walter, Horace E., Richfield Springs, N. Y. Electric signaling apparatus.....	529,986	Nov. 27	2601	625	69	1171

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Walter, Horace E., Richfield Springs, N. Y., assignor, by mesne assignments, to National Electrical Manufacturing Company, Milford, Conn. Electric annunciating apparatus ..	520,127	May 22	2072	{ 503 506 507 508 }	67	966
Walter, J. G., <i>et al.</i> (See Green, William E., assignor.)						
Walter, John P., assignor to G. W. Squires and M. Brashaw, Edgerton, Ohio. Machine for cutting wagon-fellies ..	523,389	July 24	2096	{ 527 528 529 }	68	441
Walter, Peter, Mount Vernon, Ind. Bake-oven ..	514,525	Feb. 13	918	292	66	1043
Walter, Stephen A., assignor to Acme Machine Company, Moline, Ill. Dish-cleaner ..	511,920	Jan. 2	330	77, 78	66	63
Walter, Thomas U., Huntington, assignor of four-ninths to A. D. Garden, Wheeling, W. Va. Shoe-fastening ..	521,686	June 19	1662	390	67	1531
Walters, Harry E. (See Purdon, Walters, and Woodcock.)						
Walters, James M., Los Angeles, Cal. Draping-form ..	515,541	Feb. 27	2587	640	66	1383
Walters, John, <i>et al.</i> (See Carnes, John, assignor.)						
Walters, John W. (See Omwake, Jacob H., assignor.)						
Walther, Emil W., and A. W. Street, Chicago, Ill. Trousers ..	514,576	Feb. 13	998	252	66	1059
Walther, Jacob F., <i>et al.</i> (See Zanger, Theodor, assignor.)						
Walther, Theodore A., assignor of two-fifths to C. T. Brown, Chicago, Ill. Automatic hydraulic pump ..	525,731	Sept. 11	717	165	68	1295
Walton, Frederick, London, England. Machine for the manufacture of mosaic floor-cloth.	523,610	July 24	2480	{ 623 624 }	68	509
Walton, Henry, Vicksburg, Miss., assignor of one-half to H. B. Faunt Le Roy, Memphis, Tenn. Puzzle ..	516,035	Mar. 6	496	114	66	1544
Walton, Herbert L., and W. A. Griffiths, Minneapolis, Minn. Switching device for railways ..	531,080	Dec. 18	1747	417	69	1563
Walton, James, Phenicia, N. Y. Vending-machine ..	529,222	Nov. 13	1253	{ 302 303 }	69	893
Walton, John, assignor, by mesne assignments, to M. C. Holland, Chicago, Ill. Steam-radiator ..	511,826	Jan. 2	122	30	66	26
Walton, Jonathan, Brooklyn, N. Y. Bottle ..	525,570	Sept. 4	426	102	68	1230
Walton, Jonathan, Brooklyn, N. Y. Folding chair ..	530,564	Dec. 11	882	217	69	1392
Walton, Richard, and T. Rees, Altoona, Pa. Oil-burner ..	524,268	Aug. 7	501	116	68	752
Walton, Robert H., Walnut Springs, Tex. Hay-press ..	521,923	June 26	2078	499	67	1627
Walton, William A. (See Saati, Newman M., assignor.)						
Waltz, George H., and L. E. Patton, Memphis, Tenn. Boiler ..	529,573	Nov. 20	1902	453	69	1031
Walzel, Gregor, assignor of one-half to S. Lee, New York, N. Y. Elastic metallic tire ..	523,495	July 24	2301	579	68	475
Wanamaker, Charles B., assignor of one-half to W. H. Hunsicker, Allentown, Pa. Heater ..	528,402	Oct. 30	2929	708	69	598
Wands, Washington I., assignor of one-fourth to H. W. Landes, Kirwin, Kans. Automatic switch-closer ..	522,308	July 3	229	61	68	46
Wanless, William J. (See Schmaltz, Mickle, assignor.)						
Wanner, Martin, Denver, Colo. Refrigerating liquid ..	522,812	July 10	1106	.....	68	225
Wanner, Martin, Denver, Colo., assignor of eleven-twentieths to W. B. Crittenden and J. M. Millman, Bucyrus, Ohio. Regenerative furnace ..	517,991	Apr. 10	962	240	67	194
Waples, Rufus, Jr., New York, N. Y. Umbrella-cane ..	517,315	Mar. 27	2651	661	66	1999
Ward, Almon G., and W. C. Winfield, Warren, Ohio. Bath-tub ..	521,837	June 26	1923	461	67	1597
Ward, Barton B., New York, N. Y. Circuit-controller for regulators ..	513,545	Jan. 30	3034	748	66	707
Ward, Barton B., New York, N. Y. Circuit-controller for regulators ..	527,092	Oct. 9	673	165	69	141
Ward, Charles E. (See Bullock and Waid.)						
Ward, Daniel, Peoria, Ill. Tongue-support ..	524,292	Aug. 7	550	131	68	760
Ward, George R. (See Zortman and Ward.)						
Ward, Harker R., Lovelton, Pa. Washing-machine ..	517,081	Mar. 27	2265	535	66	1924
Waid, Henry C., Greenfield, Tenn. Veneer-mortising machine ..	517,558	Apr. 3	234	54	67	46
Ward, Henry C., Chippewa Lake, Mich. Music or book leaf holder ..	524,451	Aug. 14	850	208	68	834
Ward, James A., assignor of one-half to B. N. Hillard and P. Wiesner, Murray, Idaho. Car-coupling ..	516,619	Mar. 13	1465	347	66	1742
Ward, James C. (See Temple and Ward.)						
Ward, John W. (See Noble and Ward.)						
Ward, Joseph G., Clinton, and J. W. Ball, Newark, N. J. Game-counter ..	525,777	Sept. 11	790	182	68	1308
Ward, Robert D. (See Shaw, William P., assignor.)						
Ward, Thomas J., <i>et al.</i> (See Wise, Benjamin F., assignor.)						
Ward, William B., Seward, and J. H. Morris, Lincoln, Nebr. Permutation-lock ..	525,299	Aug. 28	2288	556	68	1125
Ward, William E., Kingston, Canada. Lamp-shade ..	515,385	Feb. 27	2339	581	66	1337
Ward, William M., London, England. Parcel or hook carrier ..	512,772	Jan. 16	1763	419	66	361
Ward, William M., Corunna, assignor of one-half to A. Roedel, Linden, Mich. Carriage ..	520,746	May 29	3134	{ 758 759 }	67	1177
Warder, Bushnell & Glessner Company. (See Kane, Maurice, assignor.) (Reissue.)						
Warder, Bushnell & Glessner Company. (See Stark, Andrew, assignor.)						
Warder, Bushnell & Glessner Company <i>et al.</i> (See Lowry, George A., assignor.)						
Wardle, John F., Pawtucket, R. I. Spool-making machine ..	520,509	May 29	2733	662	67	1104
Wardle, Joseph. (See Greaves and Wardle.)						
Wardwell, Edward H., South Orange, N. J. Condenser ..	521,838	June 26	1925	461	67	1597
Wardwell, Simon W., Jr., Boston, Mass., assignor to Universal Winding Company, Portland, Me. Thread-winding machine ..	531,081	Dec. 18	1750	417	69	1563
Wardwell, Simon W., Jr., Boston, Mass., assignor to Universal Winding Company, Portland, Me. Wheel for thread-tension ..	531,082	Dec. 18	1751	417	69	1564
Wardwell, Theodore E., Stamford, Conn. Knob attachment ..	520,508	May 29	2732	662	67	1104
Wardwell, Theodore E., Stamford, Conn. Knob attachment ..	525,877	Sept. 11	989	222	68	1344
Wardwell, Theodore E., Stamford, Conn. Device for sampling tea and sealing packages ..	525,878	Sept. 11	990	222	68	1344
Wardwell, Theodore E., Stamford, Conn. Sash-fastener ..	528,533	Nov. 6	577	136	69	751
Wardwell, Theodore E., Stamford, Conn. Knob attachment ..	529,887	Nov. 27	2415	579	69	1136
Wardwell, Theodore E., Stamford, Conn. Sash-fastener ..	531,453	Dec. 25	2441	581	69	1708
Ware, Hiram B., Fort Scott, Kans. Composition for degumming flax-straw ..	517,905	Apr. 10	800	.....	67	169
Ware, John M., <i>et al.</i> (See Burson, Harry, assignor.)						
Ware, Walter F., Camden, N. J. Combined bottle-stopper and syringe ..	526,880	Oct. 2	350	87	69	66
Ware, William J., Kerens, Tex. Back-baud buckle ..	515,067	Feb. 20	1795	453	66	1222
Warfield, Dwight E., Worcester, Mass. Device for weaving diagonal strands into cane fabrics ..	517,082	Mar. 27	2266	536	66	1924
Warfield, Louis, Detroit, Mich. Car-truck ..	519,824	May 15	1563	383	67	858
Warg, Robert, and A. Lindemann, Milwaukee, Wis., assignors to J. W. O'Neill, Chicago, Ill. Printer's quoin ..	527,638	Oct. 16	1582	382	69	323
Waring, George H., and O. B. White, St. John, Canada. Steam-engine ..	512,638	Jan. 9	1497	361	66	295
Waring, John B., New York, N. Y. Machine for cutting pipes ..	514,577	Feb. 13	1000	{ 252 253 }	66	1059
Waring, John T. (See Segsneider, Gustav, assignor.)						
Waring, Wilber W., assignor to L. C. Neff, Brooklyn, N. Y. Finger-board for violins ..	524,428	Aug. 14	811	198	68	827
Warman, William A., Moncton, Canada. Dust-guard and oil-saver for car-axles ..	512,926	Jan. 16	2031	481	66	410

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Warmcastle, Samuel D. (See Crawford, Robert A., assignor.)						
Warmoth, James H. (See Miller and Warmoth.)						
Warner, Adna D., Naugatuck, Conn. Clasp for boat-trees.	513,253	Jan. 23	2515	612	66	579
Warner, Charles D., Ansonia, Conn. Electric tower-clock.	518,337	Apr. 17	1555	366	67	316
Warner, Charles D., Ansonia, Conn. Electric clock striking mechanism.	520,585	May 29	2861	692	67	1129
Warner, Charles W., Melrose, Mass. Planter.	531,606	Dec. 25	2694	646	69	1757
Warner, Charles W., Melrose, and G. A. Crane, Worcester, Mass. Cultivator.	531,605	Dec. 25	2692	{ 645 646 }	{ 69 }	1756
Warner, Daniel, Bronson, assignor of two-thirds to W. D. House and P. Womer & Son, Buchanan, Mich. Holdback.	519,363	May 8	785	192	67	703
Warner, Dwight M., and C. E. Hammond, Sparta, Mich. Brick-truck.	521,196	June 12	787	184	67	1353
Warner, Egert T., Elwood, Ind. Well-packing.	530,631	Dec. 11	992	244	69	1412
Warner Elevator Manufacturing Company. (See Brown, Alfred T., assignor.)						
Warner, Enoch, assignor of one-half to A. B. Johnston, Central City, Nebr. Hand fence-machine.	517,252	Mar. 27	2549	598	66	1979
Warner, Ernest P. (See Scribner and Warner.)						
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Mining-drill.	511,869	Jan. 2	198	50	66	41
Warner, Ernest P., assignor to Western Electric Company, Chicago, Ill. Electric switch.	512,774	Jan. 16	1767	419	66	361
Warner, Frank A., et al. (See Fox, John C., assignor.)						
Warner, Frank A., assignor of two-thirds to J. C. Fox, Chicago, Ill., and P. Thompson, Kansas City, Mo. Rack for barrels or casks.	520,098	May 22	2022	494	67	958
Warner, Frank U., Boston, Mass. Display-refrigerator.	515,182	Feb. 20	1977	493	66	1257
Warner, Frederick W., Rochester, N. Y. Body-garment.	519,487	May 8	993	240	67	739
Warner, Henry H. (See Dickinson and Warner.)						
Warner, Isaac. (See Mesure and Warner.)						
Warner, Rody E., Pittsburg, Pa. Powder-blower.	518,975	May 1	62	16	67	543
Warner, Sylvester, and O. E. Cook, West Union, Ind. Traction-wheel.	521,687	June 19	1664	390	67	1531
Warner, Warren, deceased, Cincinnati, Ohio; C. H. M. Atkins, executor. Valve for hydraulic elevators.	512,773	Jan. 16	1764	419	66	361
Warne, Gustave E., Wood Lake, Minn. Pneumatic straw-stacker.	526,423	Sept. 25	1944	464	68	1546
Warr, Aaron, Georgetown, Fla. Orange-polishing machine.	528,195	Oct. 30	2566	621	69	533
Warrand, Constantine B., Savannah, Ga., assignor of three-fourths to G. W. Lamar, W. G. Morrell, and A. Minis. Process of and apparatus for tanning.	517,083	Mar. 27	2269	536	66	1925
Warrell, Frederick G., Philadelphia, Pa. Telephone annunciator and call-bell.	524,009	Aug. 7	70	15	68	675
Warren, Alvah H. (See Ryno, Frederick A., assignor.)						
Warren, Andrew. (See Creclius, Louis J., assignor.)						
Warren, Benjamin F., Brooklyn, N. Y. Faucet for oil-cans.	528,244	Oct. 30	2655	640	69	549
Warren, Charles A., Columbus, Ohio. Running-gear for vehicles.	512,775	Jan. 16	1768	420	66	362
Warren, Christopher C., Hattiesburg, Miss. Churn-operating mechanism.	514,636	Feb. 13	1108	276	66	1079
Warren Extension Table Company. (See Gale, Burton L., assignor.)						
Warren, Frank H., Lynn, assignor to G. H. P. Flagg, Boston, Mass. Cutter-guard.	514,741	Feb. 13	1285	320	66	1113
Warren, George C., Utica, N. Y. Laying railway-rails in paved streets.	512,343	Jan. 9	1013	248	66	203
Warren, George C., Saginaw, Mich. Tonnage-computer.	528,703	Nov. 6	321	79	69	704
Warren, George E. (See Fowler and Warren.)						
Warren, George L., assignor of one-half to W. N. Davis, St. Paul, Minn. Safety shift or lock for split switches.	531,238	Dec. 18	2044	{ 487 488 }	{ 69 }	1616
Warren, Governor D., Dallas, Tex. Automatic railway-gate.	514,795	Feb. 13	1369	344	66	1130
Warren, Governor D., Dallas, Tex. Mine-door.	516,036	Mar. 6	497	115	66	1544
Warren, Governor D., Dallas, Tex., and J. Casey, Coalgate, Ind. Ter. Switch attachment.	517,783	Apr. 3	618	154	67	120
Warren, John K., et al. (See Hartley, Charles J., assignor.)						
Warren, John W., Sydney, New South Wales. Track-cleaner.	516,714	Mar. 20	1632	388	66	1788
Warren, Marion. (See Puffer and Warren.)						
Warren, William B., Peoria, Ill. Shifting link-motion for locomotives.	521,398	June 12	1146	271	67	1421
Warrington, Jesse, assignor of one-half to Nordyke & Marmon Company, Indianapolis, Ind. Cloth-fastening device for bolting-reefs.	515,509	Feb. 27	2527	626	66	1371
Warrington, Jesse, assignor to Nordyke & Marmon Company, Indianapolis, Ind. Return-air purifier.	527,910	Oct. 23	2052	492	69	425
Warth, Henry, Stapleton, N. Y. Perforating-tool.	513,633	Feb. 27	2727	679	66	1411
Warwick Cycle Manufacturing Company. (See Hendrick and Fay, assignors.)						
Warwick Cycle Manufacturing Company. (See Verry, Alpha O., assignor.)						
Warwick, Edward. (See Warwick, Thomas F., and E.)						
Warwick, Edward, Birmingham, England. Wheel-rim.	530,736	Dec. 11	1173	285	69	1442
Warwick, Frederick. (See Warwick, Thomas F., and E.)						
Warwick, Thomas F., and E., Birmingham, England. Pedal for velocipedes.	514,742	Feb. 13	1287	320	66	1113
Washbrood, Ernest J., Montreal, Canada. Caster.	514,526	Feb. 13	919	232	66	1044
Washburn, Archibald S., Germantown, N. Y. Grip-pawl for machinery.	522,725	July 10	952	237	68	197
Washburn, Christian, Bridgewater, Mass. Car-coupling.	512,495	Jan. 9	1292	310	66	255
Washburn, David B., Atkinson, Me. Washbench.	524,658	Aug. 14	1182	290	68	896
Washburn, George F., Boston, Mass. Bicycle-tire.	516,669	Mar. 20	1562	371	66	1776
Washburn, George F., Boston, Mass. Bicycle-frame.	517,501	Apr. 3	146	31	67	30
Washburn, George F., Boston, Mass. Bicycle-frame. (Reissue.)	11,449	Oct. 23	2462	595	69	499
Washburn, George W. (See Faulkner, James J., assignor.)						
Washburn, John S., Hackensack, N. J. Lubricating device for car or other axles or shafts.	519,212	May 1	493	119	67	633
Washburn & Moen Manufacturing Company. (See Vaughan and Watson, assignors.)						
Washburn, Nathan, Boston, Mass. Making steel castings.	513,163	Jan. 23	2390		66	549
Washburn, Nathan, Boston, Mass. Car-wheel.	513,546	Jan. 30	3036	748	66	708
Washburn, Nathan, Boston, Mass. Making composite car-wheels.	522,633	July 10	793	199	68	170
Washburn, Samuel N., Olympia, Wash. Car-coupling.	530,565	Dec. 11	824	217	69	1392
Washburne, James V., Morrison, Ill. Cuff-fastener.	517,084	Mar. 27	2271	536	66	1925
Washington Electric Company. (See Melissnr, William C., assignor.)						
Washington, George. (See Beaumont and Washington.)						
Washington, Luria, and W. H. Roberts, Coal Creek, Tenn. Automatic railway-switch.	521,518	June 19	1376	320	67	1479
Wass, Charles J., et al. (See Crowell, Sommers, assignor.)						
Wass, Clara S., et al. (See Crowell, Sommers, assignor.)						
Waterbury Clock Company. (See Bannatyne, Archibald, assignor.)						
Waterbury Clock Company. (See Hopson, John, Jr., assignor.)						
Waterbury Farrel Foundry and Machine Company. (See Campbell, Andrew C., assignor.)						
Waterbury Machine Company. (See Lamb, George B., assignor.)						
Waterbury Manufacturing Company. (See Ashworth, Richard J., assignor.)						
Waterhouse, Addison G., Hartford, Conn., assignor to Waterhouse Electric Company, of Connecticut. Electric-current regulator.	518,359	Apr. 17	1609	398	67	327
Waterhouse, Addison G., Hartford, Conn., assignor to Waterhouse Electric Company, of Connecticut. Regulating electric currents.	518,360	Apr. 17	1612	398	67	327

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Waterman, Charlie H. (See Burkhart, Waterman, and Smith.)						
Waterman, Frank E., <i>et al.</i> (See Kaldreider, William H., assignor.)						
Waterman, Roll S., <i>et al.</i> (See Kaldreider, William H., assignor.)						
Waters, Edward P., Rossville, Ill. Halter.....	526,593	Sept. 25	2203	527	68	1594
Waters, Frank M., Dayton, Ohio. Lawn-mower.....	515,414	Feb. 27	2383	591	66	1345
Waters, George A., Lansingburg, N. Y. Camera-shutter.....	526,471	Sept. 25	2027	483	68	1561
Waters, Nellie D. (See Chandler, John A., assignor.)						
Waterston, James, Nashville, Tenn., assignor, by mesne assignments, to G. E. Sanborn, Chicago, Ill. Ink-distributor.....	516,620	Mar. 13	1466	347	66	1742
Watthen, James A., Louisville, Ky. Water purifier and heater.....	512,076	Jan. 2	583	138	66	111
Watkins, Edward G., assignor of one-half to Heywood Bros. & Co., Gardner, Mass. Workman's time-recorder.....	527,304	Oct. 9	1031	250	69	205
Watkins, Lee, Colorado City, Colo. Bicycle-gearing.....	516,287	Mar. 13	900	212	66	1638
Watkins, William D., assignor of one-half to A. E. Derrick, Yoncalla, Oreg. Clothes-pin.....	527,911	Oct. 23	2055	493	69	425
Watkinson, George, Colchester, Conn. Mill for mixing caoutchouc.....	525,638	Sept. 4	525	127	68	1249
Watney, Reginald. (See Pratt, Spencer, assignor.)						
Watson, Arthur J., Mean Meer, India. Reloading cartridge-holder.....	527,166	Oct. 9	799	195	69	163
Watson, Charles. (See O'Donnell, James, assignor.)						
Watson, Christopher H., Riverside, Cal. Valve for hydrants.....	518,475	Apr. 17	1808	447	67	363
Watson, Edward, Grand Rapids, Mich. Manufacture of material for calcimining.....	522,634	July 10	794	.....	68	170
Watson, Edward, Grand Rapids, Mich. Making material for wall decoration.....	522,635	July 10	795	.....	68	170
Watson, Edward, Grand Rapids, Mich. Material for wall decoration and making same.....	522,636	July 10	797	.....	68	170
Watson, Edward, Grand Rapids, Mich. Material for wall-coating and making same.....	522,637	July 10	798	.....	68	170
Watson, Edward P., New York, N. Y., and R. W. Watson, Preston, England. Tension-regulating attachment for fabric-packaging machines.....	528,750	Nov. 6	398	95, 96	69	718
Watson, George A., Toronto, Canada, assignor to W. H. Laird, New York, N. Y. Sectional boiler.....	521,746	June 19	1760	{ 417 418 217 218 }	67	1550
Watson, George H., St. Louis, Mo. Locomotive-boiler furnace.....	530,566	Dec. 11	885	{ 217 218 }	69	1393
Watson, Henry W. and M., Denver, Colo. Dry placer machine.....	529,340	Nov. 13	1455	351	69	932
Watson, Herbert. (See Watson, John R. and H.)						
Watson, J. Herbert. (See La Burt, John, assignor.)						
Watson, James, Liverpool, England. Boiler-tube expander and stopper.....	519,143	May 1	357	85	67	607
Watson, John B., Toronto, and J. R. Douglas, Ottawa, Canada. Ventilating and furnace-checking device.....	520,974	June 5	402	97	67	1270
Watson, John C. (See Vaughan and Watson.)						
Watson, John J., Buffalo, N. Y. Combined card and dice exhibiting machine.....	517,316	Mar. 27	2653	623	66	2000
Watson, John R. and H., Wyandotte, Mich. Carbonating-column.....	523,390	July 24	2099	528	68	441
Watson, John R. and H., Wyandotte, Mich. Apparatus for drying, roasting, and calcining soda-ash.....	527,912	Oct. 23	2055	493	69	425
Watson, Mary, London, England. Malted food.....	531,013	Dec. 18	1632	.....	69	1542
Watson, Minnie. (See Watson, Henry W. and M.)						
Watson, Nelson M., assignor to A. H. and W. B. Heath and S. A. Millard, Detroit, Mich. Electrical annunciator.....	514,975	Feb. 20	1652	{ 413 414 }	66	1197
Watson, Nelson M., assignor to Detroit Time Register Company, Detroit, Mich. Employee's time-recorder.....	515,805	Mar. 6	123	29, 30	66	1476
Watson, Robert, Washington, D. C. Electric elevator.....	516,956	Mar. 20	2029	480	66	1864
Watson, Robert W. (See Watson, Edward P. and R. W.)						
Watson, Robert W., Preston, England. Speed-regulating attachment for machines for measuring or packaging fabrics.....	526,275	Sept. 18	1649	389	68	1477
Watson, William A., Jr., Lexington, N. C. Bed-brace.....	516,955	Mar. 20	2029	480	66	1864
Watson, William H., New Orleans, La. Governor.....	514,294	Feb. 6	556	139	66	957
Watt, Joseph W. (See Pettit and Watt.)						
Watt Mining Car Wheel Company <i>et al.</i> (See Rogers, Arthur, assignor.)						
Watters, Charles H., Chicago, Ill. Valve device.....	519,052	May 1	183	43	67	572
Watters, Don C., <i>et al.</i> (See Stanley, Oramel C., assignor.)						
Wattles, Hiram J., Syracuse, N. Y. Cooking-range.....	515,415	Feb. 27	2385	591	66	1345
Wattles, Hiram J., Syracuse, N. Y. Hot-air stove.....	525,170	Aug. 28	2101	511	68	1088
Wattles, Luther H., Providence, R. I. Exhaust-valve for engines.....	526,761	Oct. 2	156	37	69	30
Watts, Albert. (See Chase, Henry A., assignor.)						
Watts, David H. (See Furness, Frank, assignor.)						
Watts, Elias, Keyport, N. J. Steam heating apparatus.....	521,093	June 5	612	145	67	1307
Watts, John H., Auburn, N. D. Rope or cable system for operating machinery.....	515,416	Feb. 27	2390	592	66	1345
Wauters, Gustave, Grimberghen, Belgium. Apparatus for moving and steering steamships.....	514,527	Feb. 13	920	233	66	1044
Wauthier, Louis F., Liègy, Belgium. Beet-root or potato harvester.....	528,669	Nov. 6	640	152	69	763
Wauthy, Jules. (See Jobert, Felicien, assignor.)						
Way, Charles M. (See Cooper, James B., assignor.)						
Way, John H., Philadelphia, Pa. Sewing-machine.....	525,879	Sept. 11	991	{ 222 223 }	68	1344
Wayland, Columbus A., Harrisburg, Tenn. Bench-dog.....	517,317	Mar. 27	2655	623	66	2000
Wayland, James, Newark, N. J. Electrically-controlled railway-signal.....	512,077	Jan. 2	584	{ 138 139 642 643 }	66	111
Wayland, James, Newark, N. J. Railway-train gate.....	520,464	May 29	2658	643	67	1091
Wayland, James, Newark, N. J. Railway-switch signal.....	531,348	Dec. 25	2245	535	69	1670
Wayland, Robert R., Hallsville, Mo. Churn.....	513,375	Jan. 23	2727	062	66	614
Wayman, Marcus D., <i>et al.</i> (See Green, Ira L., assignor.)						
Wayman, Marcus D., Ford City, Pa. Polishing-machine.....	514,528	Feb. 13	921	233	66	1044
Wayne Oil Tank Company. (See Becker, John J., assignor.)						
Wayne, William J., Decatur, Ill. Sully.....	529,822	Nov. 27	2310	550	69	1116
Wayt, James B., Indianapolis, Ind. Garbage-furnace.....	523,699	July 31	2655	658	68	557
Weale, Henry P., Boston, assignor of two-thirds to G. L. Richards and H. E. Turner, Malden, Mass. Car-fender.....	528,048	Oct. 23	2306	556	69	471
Weart, John W., <i>et al.</i> (See Mackey, William T., assignor.)						
Weatherbee, Brayton A., Warren, N. Y. Machine for picking and separating hops.....	526,594	Sept. 25	2204	{ 527 528 }	68	1594
Weatherby, Wilbert, Detroit, Mich. Device for removing leads from type.....	520,465	May 29	2661	643	67	1091
Weatherhead, Edward H., Cleveland, Ohio. Hydraulic air-pump.....	526,762	Oct. 2	158	37	69	30
Weatherhead, Edward H., assignor to Cleveland Faucet Company, Cleveland, Ohio. Hydraulic air-pump.....	512,419	Jan. 9	1148	279	66	228
Weatherhead, Edward H., assignor to Cleveland Faucet Company, Cleveland, Ohio. Hydraulic air-pump.....	512,776	Jan. 16	1770	420	66	362

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Weatherhead, Edward H., assignor to Cleveland Faucet Company, Cleveland, Ohio. Hydraulic air-pump.	513,254	Jan. 23	2545	{ 612 613	66	580
Weatherhead, Edward H., assignor to Cleveland Faucet Company, Cleveland, Ohio. Hydraulic air-pump.	514,608	Feb. 13	1062	{ 265 266	66	1070
Weatherhead, Edward H., assignor to Cleveland Faucet Company, Cleveland, Ohio. Hydraulic air-pump.	515,183	Feb. 20	1979	494	66	1257
Weatherhead, Edward H., assignor to Cleveland Faucet Company, Cleveland, Ohio. Hydraulic air-pump.	520,466	May 29	2662	644	67	1091
Weatherill, Henry G. (See Rundquist, William, assignor.)						
Weatherly, Robert H., assignor to Scarritt Furniture Company, St. Louis, Mo. Reversible car-seat.	522,173	June 26	2526	606	67	1710
Weathers, James, Indianapolis, Ind. Combined vise, drill, and anvil.	516,288	Mar. 13	901	212	66	1638
Weatherwax, Jacob, Aberdeen, Wash. Knob attachment.	516,670	Mar. 20	1563	371	66	1776
Weaver, Alfred D. P., Jackson, Miss. Telegraph-repeater.	522,500	July 3	351	141	68	109
Weaver, Alfred D. P., Jackson, Miss. Secret telegraphy.	527,518	Oct. 16	1386	337	69	286
Weaver, Charles E. and J. F., Chelsea, Iowa. Crate-cover and fastener.	513,353	Jan. 23	2693	653	66	602
Weaver, Charles H., assignor of one-half to H. G. Preston, Hornellsville, N. Y. Pipe-wrench.	516,249	Mar. 13	847	198	66	1626
Weaver, Franklin E., Torrington, Conn. Saddle for bicycles.	521,943	June 26	2121	508	67	1636
Weaver, George W., Rochester, N. Y. Type.	525,754	Sept. 11	750	174	68	1301
Weaver, Henry M., Mansfield, Ohio. Cash-carrier apparatus.	513,547	Jan. 30	3038	748	66	708
Weaver, James E., Pittsburg, Pa. Gas-making apparatus.	513,959	Jan. 30	3693	{ 908 909 910	66	832
Weaver, Joseph, Canandaigua, N. Y. Circuit-maker.	517,502	Apr. 3	147	32	67	30
Weaver, Joseph A. (See Hullingsworth and Weaver.)						
Weaver, Joseph A., Jr., New York, N. Y. Safety-catch for doors.	526,881	Oct. 2	352	87	69	66
Weaver, Joseph A., Jr., New York, N. Y. Bicycle-alarm.	529,223	Nov. 13	1257	303	69	893
Weaver, Joseph F. (See Weaver, Charles E. and J. F.)						
Weaver, Leander H., Hudson, N. Y. Sliding door.	530,372	Dec. 4	522	{ 129 130	69	1316
Weaver, William. (See Cassaday and Weaver.)						
Webb, Andrew B., et al. (See Webb and Jacobs, assignors.)						
Webb, Arthur N., Salem, Mass. Telephone-index.	513,164	Jan. 23	2391	577	66	54
Webb, George B., assignor to Wyckoff, Seamans & Benedict, New York, N. Y. Type-writing machine.	520,586	May 29	2863	693	67	1129
Webb, George S., Aurora, Ill. Tire for wheels of vehicles.	519,748	May 15	1437	{ 347 348	67	833
Webb, George S., Aurora, Ill. Driving mechanism for bicycles.	527,568	Oct. 16	1463	{ 356 357	69	300
Webb, J. A., et al. (See Southworth, Walter H., assignor.)						
Webb, Joseph, Deposit, N. Y. Button-drilling machine.	522,036	June 26	2296	{ 549 550	67	1665
Webb, Samuel D., and G. T. Jacobs, assignors of one-half to A. B. Webb and R. Cox, Washington, D. C. Thill-support for vehicles.	512,344	Jan. 9	1014	248	66	204
Webb, Wells D. (See Schleiper and Harrison, assignors.)						
Webb, William H., Longmont, Colo. Grain-separator machine.	515,542	Feb. 27	2587	640	66	1383
Webb, William H., Longmont, Colo. Corn-husking machine.	527,226	Oct. 9	894	217	69	182
Webb, William J., Sabine Pass, Tex. Trunk-strap fastener.	521,227	June 12	845	197	67	1363
Webb, Zada B., Whippany, N. J. Box.	531,063	Dec. 18	1752	418	69	1564
Webber, Alexander, Beverly, Mass. Machine for kneading dough.	527,033	Oct. 2	593	143	69	111
Webber, Frank G., et al. (See Parrish, George W., assignor.)						
Webber, Jerry, et al. (See Winters, John W., assignor.)						
Webber, John B., assignor to Vulcan Iron Works Company, Toledo, Ohio. Steam shovel or excavator.	528,312	Oct. 30	2774	{ 669 670	69	570
Webber, Josiah A., Brooklyn, N. Y. Brake for railway-cars.	530,912	Dec. 11	1447	344	69	1494
Weber, Charles S., San José, Cal. Stringing pianos.	514,976	Feb. 20	1654	414	66	1197
Weber, Conrad, et al. (See Schweitzer, Albert, assignor.)						
Weber, Frederick D., assignor of one-half to H. C. Christgan, Brooklyn, N. Y. Fender for cars.	529,052	Nov. 13	960	227	69	840
Weber, George. (See Schmidt and Weber.)						
Weber, George. (See Weber, William, assignor.)						
Weber, George, and C. W. Marley, Rotterdam, N. Y., assignors to General Electric Company, Boston, Mass. Armature-bar and making same.	523,027	July 17	1477	367	68	316
Weber, George A., New York, N. Y. Adjusting device for signal-operating rods.	524,429	Aug. 14	812	193	68	827
Weber, George A., New York, N. Y., assignor to Weber Railway Joint Manufacturing Company, of West Virginia. Rail-fastening.	531,349	Dec. 25	2246	536	69	1670
Weber, Henry J., et al. (See Lyons, Charles J., assignor.)						
Weber, John C. (See Jahant, Augustus, assignor.)						
Weber, Joseph. (See Wright, William H., assignor.)						
Weber, Joseph, et al. (See Lyons, Charles J., assignor.)						
Weber, Julius, Reading, Pa. Hat-box.	522,392	July 3	323	98	68	76
Weber, Julius, Reading, Pa. Box-covering machine.	527,913	Oct. 23	2056	493	69	425
Weber, Moritz, assignor of one-half to G. J. Kobusch, St. Louis, Mo. Car-seat.	512,240	Jan. 2	842	204	66	159
Weber, Moritz, J. Perschl, and P. Weber, Los Angeles, Cal. Appliance for and method of planting seed.	526,512	Sept. 25	2085	497	68	1572
Weber, Oscar. (See Horzberg and Weber.)						
Weber, Peter, Milwaukee, Wis. Bicycle.	523,186	July 17	1760	441	68	362
Weber, Philipp, Nuremberg, Germany. Annunciator.	524,098	Aug. 7	216	50	68	701
Weber, Pius. (See Weber, Perschl, and Weber.)						
Weber Railway Joint Manufacturing Company. (See Weber, George A., assignor.)						
Weber, Theodore A., New York, N. Y. Granulating-mill.	524,748	Aug. 21	1338	327	68	936
Weber, Theodore A., assignor to H. Jones and F. W. Eddy, New York, N. Y. Method of and apparatus for manufacturing cork-board.	524,746	Aug. 21	1334	326	68	935
Weber, Theodore A., assignor to H. Jones and F. W. Eddy, New York, N. Y. Method of and apparatus for manufacturing cork-board.	524,747	Aug. 21	1336	327	68	936
Weber, Valentin, et al. (See Harrison, James R., assignor.)						
Weber, Valentin, Princeville, Ill. Register for grain weighing and measuring machines.	518,083	Apr. 10	1106	280	67	218
Weber, Valentin, Princeville, and J. R. Harrison, assignors of one-third to W. Harrison, Peoria, Ill. Grain-elevator.	518,084	Apr. 10	1108	{ 280 281	67	218
Weber, Valentin, Princeville, and J. R. Harrison, assignors of one-third to W. Harrison, Peoria, Ill. Grain-weigher and conveyor-spout.	520,382	May 22	2522	610	67	1050
Weber, William, assignor of one-half to G. Weber, Philadelphia, Pa. Speaking attachment for telephones.	520,467	May 29	2663	644	67	1092
Weber, William, assignor of one-half to G. Weber, Philadelphia, Pa. Attachment for speaking-tubes.	526,549	Sept. 25	2139	512	68	1581
Weber, William H., Chicago, Ill. Bolster-spring.	524,365	Aug. 14	701	171	68	805

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Webster, Ambrose. (See Webster, Jerome J. and A.)						
Webster, Ambrose, Waltham, assignor to Boston Cash Register Company, Northampton, Mass. Cash-registering machine.	514,173	Feb. 6	323	77	66	914
Webster, Clinton F., Brockton, Mass. Sign	528,196	Oct. 30	2568	621	69	533
Webster, Edward, Hartford, Conn. Damper	521,531	June 19	1403	324	67	1463
Webster, Frank H., et al. (See Crosby, Frank P., assignor.)						
Webster, George, assignor of one-half to A. J. Ingraham, Philadelphia, and S. H. Brown, Bala, Pa. Insulator for electric conductors	526,472	Sept. 25	2029	483	68	1561
Webster, Harold A., Haverhill, assignor to Globe Buffer Company, Boston, Mass. Buffering-roll	523,157	July 17	1702	427 428	68	352
Webster, Jerome J., assignor to Boston Cash Register Company, Northampton, Mass. Cash registering and indicating machine	514,174	Feb. 6	325	78, 79	66	914
Webster, Jerome J., assignor to Boston Cash Register Company, Northampton, Mass. Cash-registering machine.	514,175	Feb. 6	330	79	66	915
Webster, Jerome J., assignor to Boston Cash Register Company, Northampton, Mass. Cash-registering machine.	523,611	July 24	2482	624	68	509
Webster, Jerome J., Northampton, and A. Webster, Waltham, assignors to Boston Cash Register Company, Northampton, Mass. Cash-registering machine.	514,176	Feb. 6	334	80	66	916
Webster, Joseph H., et al. (See Brelsfoard, William S., assignor.)						
Webster, Thomas E. (See Boegen, John E., assignor.)						
Webster, Walter W., and J. L. Hangi, Scranton, Pa. Sash-fastener	512,593	Jan. 9	1433	345	66	282
Webster, Warren, Merchantsville, N. J. Feed-water heater and purifier	524,152	Aug. 7	320	75	68	720
Webster, Warren, Merchantsville, N. J. Apparatus for condensing steam	524,599	Aug. 14	1038	256	68	868
Webster, Warren, Merchantsville, N. J. Apparatus for condensing steam	525,931	Sept. 11	1064	242	68	1356
Webster, Warren, Philadelphia, Pa. Condenser for exhaust-steam.	524,153	Aug. 7	321	76	68	721
Webster, William J. (See Lasher, Webster, and Newton.)						
Weddigen, W. (See Quambusch, Gnstav, assignor.)						
Wedekind, William, Hagerstown, Ind. Knife	516,671	Mar. 20	1564	371	66	1777
Wedge, Theodore L. (See Stewart and Wedge.)						
Wedholm, Carl A., Nyköping, Sweden. Tin can	514,668	Feb. 13	1158	288	66	1089
Wedmore, Henry S., Guilford, Conn. Hook and eye	523,700	July 31	2656	658	68	557
Weed, Alfred, assignor to Arcade File Works, Anderson, Ind. Machine for stripping file-blanks	530,143	Dec. 4	111	29	69	1235
Weed, Clinton A., Racine, Wis. Sprinkling-head	530,866	Dec. 11	1377	328	69	1481
Weed, Hiland A., Jordan, N. Y. Surgical splint.	529,002	Nov. 13	878	207	69	826
Weeden, Henry C., Boston, Mass. High-pressure ball-cock	515,699	Feb. 27	2842	707	66	1434
Weeden, Mark J., Springfield, N. Y. Trousers-stretcher	526,953	Oct. 2	467	115	69	88
Weedon, Charles J. (See Rea, Edward J., assignor.)						
Weeks, Albion P., Santa Cruz, Cal. Cinch-plate	531,580	Dec. 25	2647	634	69	1748
Weeks, Charles D., St. Louis, Mo. Egg-beater	529,764	Nov. 27	2205	526	69	1096
Weeks & Hurlbut. (See Hurlbut, Fred G., assignor.)						
Wegmann, Edward, Jr., Englewood, N. J. Shutter-fastening	530,144	Dec. 4	113	29	69	1236
Wegfarth, Louis C., New York, N. Y. Stop for pedals of musical instruments.	522,926	July 10	1286	318	68	258
Wegener, Carl, Berlin, Germany. Fine-fuel furnace	517,632	Apr. 3	356	84, 85	67	70
Wegener, Carl, Berlin, Germany. Coal-dust-firing apparatus	519,784	May 15	1504	365 366	67	846
Weglein, Louis, Jr., Philadelphia, Pa. Window-screen	516,289	Mar. 13	902	213	66	1638
Wegner, Frederick A., assignor of two-thirds C. H. Sage, Jr., Three Rivers, and W. C. Kepler, Flowerfield, Mich. Pneumatic tire	514,796	Feb. 13	1370	345	66	1130
Wehmer, Carl, Hanover, Germany. Making citric acid	515,033	Feb. 20	1745		66	1213
Wehrenberg, Charles, Mound City, Ill. Harrow	520,278	May 22	2352	571	67	1017
Wehrman, August, Emporia, Kans. Replanting attachment for cultivators	529,606	Nov. 20	2072	496	69	1063
Weibel, Emil, Norwich, N. Y. Game apparatus	512,346	Jan. 9	107	248	66	204
Weicher, Jacob J., assignor of one-half to G. Haller, Fort Wayne, Ind. Mail-box	513,064	Jan. 16	2237	538	66	449
Weidauer, Rudolph, assignor of one-half to C. J. Albrecht, Merrill, Wis. Door	520,174	May 22	2176	530	67	984
Weidknecht, Frederic. (See Schillot and Weidknecht.)						
Weidman, Charles O., Medina, Ohio. Wind-wheel	512,777	Jan. 16	1771	420	66	362
Weigand, Charlie, Cleveland, Ohio. Trotting-sulky	516,250	Mar. 13	847	198	66	1636
Weigelt, Curt, Berlin, Germany. Making fertilizers	524,113	Aug. 21	1443		68	956
Weigle, Wilhelm T. F., Stuttgart, Germany. Organ-pipe	520,344	May 22	2466	588	67	1039
Weil, Adolf, Greenfield, Ind. Apparatus for boring wells	525,374	Sept. 4	100	25	68	1168
Weiler, Nick, Des Moines, Iowa. Compound-lever lifting-jack	524,010	Aug. 7	71	16	68	675
Weimar, Andrew, Philadelphia, Pa. Shuttle-operating mechanism for narrow-ware looms	519,896	May 15	1682	410	67	880
Weinandy, August, New Riegel, Ohio. Blotter-holder	525,880	Sept. 11	994	224	68	1344
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Basic yellow dye	515,100	Feb. 20	1837		66	1231
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Dyeing by the aid of paramidodiphenylamin	517,533	Apr. 3	190		67	38
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Black azo dye	525,245	Aug. 28	2206		68	1107
Weinberg, Arthur, assignor to L. Cassella & Co., Frankfort-on-the-Main, Germany. Black azo dye	526,763	Oct. 2	159		69	31
Weinhagen, Frederick, et al. (See Wheeler, Fred A., assignor.)						
Weinhagen, Henry, Hoboken, N. J., and F. King, New York, N. Y. Thermometer attachment for hot-water bags, &c.	522,866	July 10	1178	293	68	239
Weinheimer, Hattie L. (See Weinheimer, John, assignor.)						
Weinheimer, John, assignor to H. L. Weinheimer, Syracuse, N. Y. Moth-proof bag	522,542	July 3	621	158	68	122
Weinhold, Richard. (See Crooker and Weinhold.)						
Weinman, Christian J. (See Euchenhofer, Weinman, and Stevens.)						
Weinman, Christian J., and E. E. Euchenhofer, Dayton, Ohio. Wrapping-machine	522,751	Nov. 6	399	96	69	719
Weinman, Christopher F. (See Kramer and Weinman.)						
Weinman, Louis, Munich, Germany. Pavement-block	526,090	Sept. 18	1337	310	68	1419
Weinrich, Moriz, St. Louis, Mo. Apparatus for decarbonizing and revivifying bone-black	530,632	Dec. 11	994	244	69	1413
Weir, Fredric C. (See Harden, Edward W., assignor.)						
Welr, Fredric C. (See Mellen and Goldsmith, assignors.)						
Weir Froz Company. (See Goldsmith, Nathaniel O., assignor.)						
Weir, John, assignor of one-half to J. Monaghan, Fall River, Mass. Electric stop-motion	518,297	Apr. 17	1481	370	67	304
Weir, John R., assignor of one-half to G. W. Lortz, Utica, N. Y. Thread-cutter	514,529	Feb. 13	923	234	66	1044
Weir, Thomas J., Cincinnati, Ohio. Re-in-holder	515,634	Feb. 27	2738	679	66	1412
Weir, William, San Francisco, Cal. Filter	516,140	Mar. 6	650	152	66	1574
Weis, J. P. Carl. (See Clapp, Richard D., assignor.)						
Weis, Jacob P., Anderson, Ind. Furnace	530,869	Dec. 11	1378	328	69	1481
Weisel, Peter M., Williamsport, Pa. Double-row corn-planter	526,646	Sept. 25	2297	550	68	1611
Weissel, David D., Fort Wayne, Ind. Nut-lock	527,569	Oct. 16	1465	357	69	301
Weiss, Arkless D., Wilkes-Barré, Pa. Washboiler	511,979	Jan. 2	421	98	66	80

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Weiss, Carl W., New York, N. Y. Motor-driven cash-register and check-printer	512,641	Jan. 9	1511	{ 363 361	66	297
Weiss, Carl W., Brooklyn, N. Y., assignor, by mesne assignments, to National Cash Register Company, of Ohio. Cash register, indicator, and recorder	512,639	Jan. 9	1498	{ 361 362	66	295
Weiss, Carl W., Brooklyn, N. Y., assignor, by mesne assignments, to National Cash Register Company, of Ohio. Cash register, recorder, and check-printer	512,640	Jan. 9	1502	{ 362 363	66	295
Weiss, Carl W., Brooklyn, N. Y., assignor, by mesne assignments, to National Cash Register Company. Cash register, indicator, and check-printer	524,814	Aug. 21	1444	{ 353 354	68	956
Weiss, Ernest H. (See Bukenhofer and Weiss.)	530,215	Dec. 4	245	59	69	1260
Weiss, Leopold, New York, N. Y. Parcel-carrier	530,671	Dec. 11	1067	259	69	1424
Weiss, Leopold, New York, N. Y. Packing-box				{ 184 185 186	67	1353
Weiss, Rudolph, Nottingham, England. Embroidering-machine	521,197	June 12	788	{ 440 441	66	1213
Weissenborn, Edward, Jersey City, N. J. Making pencil or crayon cases	515,034	Feb. 20	1745	650	66	1390
Weissenborn, Edward, Jersey City, N. J. Machine for making pencil-cases	515,564	Feb. 27	2619	248	66	204
Weissenborn, Oscar A., Jersey City, N. J. Holder for pens, brushes, &c	512,345	Jan. 9	1016	252	67	1407
Weisser, Henry J., Pottstown, Pa. Automatic boiler-feed	521,351	June 12	1077	98	68	76
Weisser, Henry J., Pottstown, Pa. Boiler-feed	522,393	July 3	384	421	66	363
Weissmann, Johann G., Schweinau, Germany. Horseshoe	512,778	Jan. 16	1773			
Weitershausen, Charles J. (See Thunhorst, Frederick J., assignor.)						
Weitmyer, John H., New York, N. Y. Steam packing	525,063	Aug. 28	1900	465	68	1054
Weitzel, Jacob. (See Schmidt and Weitzel.)						
Welbourn, Josiah M., Surprise, Ohio. Straw-stacker	530,294	Dec. 4	388	97	69	1285
Welch, Abraham T., Washington, D. C. Gas-burner for heaters	519,749	May 15	1439	{ 347 348	67	834
Welch, Abraham T., Washington, D. C. Pump and motor therefor	519,825	May 15	1566	{ 383 384	67	859
Welch, Allie R., assignor of one-half to F. P. Glazier, Chelsea, Mich. Liquid-gage	517,710	Apr. 3	500	120	67	96
Welch, Allie R., assignor of one-half to F. P. Glazier, Chelsea, Mich. Oven	522,638	July 10	799	199	68	170
Welch, Allie R., assignor of one-half to F. P. Glazier, Chelsea, Mich. Liquid-gage	523,158	July 17	1703	428	68	352
Welch, Charles K., London, England. Rubber tire	522,138	June 26	2466	592	67	1698
Welch, Charles K., Coventry, England, assignor to Pneumatic Tyre and Booth's Cycle Agency, Limited, Dublin, Ireland. Pneumatic tire	512,594	Jan. 9	1434	{ 345 346	66	282
Welch, Charles K., Coventry, England, assignor of one-half to H. Du Cros, Dalkey, Ireland. Wheel for vehicles	522,813	July 10	1108	274	68	225
Welch, Charles K., Coventry, England, assignor to Pneumatic Tyre Company, Limited, Dublin, Ireland. Pneumatic tire	522,814	July 10	1109	{ 274 275	68	225
Welch, Charles K., Coventry, England, assignor to Pneumatic Tyre Company, Limited, Dublin, Ireland. Pneumatic tire	526,882	Oct. 2	353	87	69	66
Welch, Daniel H., and J. L. Lovell, Astoria, Oreg. Propeller	524,624	Aug. 14	1131	278	68	886
Welch, E. Baker, <i>et al.</i> (See Dooley, Thomas B., assignor.)						
Welch, Harry J. (See Garis and Welch.)						
Welch, Henry J., Carthage, assignor of one-half to C. V. Graves, Natural Bridge, N. Y. Pneumatic-tread horseshoe	513,662	Jan. 30	3237	794	66	742
Welch, Henry J., Carthage, assignor of one-half to C. V. Graves, Natural Bridge, N. Y. Attaching wire loops	514,177	Feb. 6	336	80	66	917
Welch, Robert K., assignor of one-half to G. E. Schlegelmilch, Philadelphia, Pa. Dynamo-electric machine or electric motor	520,152	May 22	2136	521	67	977
Welch, Rosia W., assignor to J. S. Taylor, Baltimore, Md. Grain-scouring machine	528,405	Oct. 30	2931	{ 708 709	69	598
Welcker, Armand J. (See Allen and Welcker.)						
Welcker, Emma M., Berlin, assignor to W. Plöger, Hanover, Germany. Dress-shield	526,276	Sept. 18	1651	389	68	1478
Weld, Harold A., <i>et al.</i> (See Lindstrom, Carl E., assignor.)						
Weldon, George, Mount Vernon, N. Y. Mortising-machine	517,906	Apr. 10	801	{ 201 202	67	169
Weldon, Josiah, Elmore, Ohio. Sash-holder	526,764	Oct. 2	160	38	69	31
Weldon, Leonard, Amsterdam, N. Y. Dyeing-machine	531,350	Dec. 25	2247	536	69	1671
Weldon, Leonard, assignor to Klauder-Weldon Dyeing Machine Company, Amsterdam, N. Y. Apparatus for dyeing	514,743	Feb. 13	1228	321	66	1114
Weldon, Leonard, assignor to Klauder-Weldon Dyeing Machine Company, Amsterdam, N. Y. Machine for dyeing	529,439	Nov. 20	1246	439	69	1021
Welker, Joseph, assignor to H. S. Cole, Pawtucket, R. I. Band-machine	516,141	Mar. 6	653	152	66	1575
Welker, Louis, Williamsport, Pa. Automatic fire-extinguisher for oil-rooms	512,927	Jan. 16	2032	481	66	410
Well, James M. (See Ferguson, Sidney M., assignor.)						
Wellens, Edward, <i>et al.</i> (See Wellens, William, assignor.)						
Wellens, William, assignor to himself and E. Wellens, Oldham, England, and M. Sowden, Brooklyn, N. Y. Fire-escape or lifter	517,318	Mar. 27	2656	{ 623 624	66	2000
Weller, Chester A., assignor of one-half to J. Gibney, Sing Sing, N. Y. Clutch	524,797	Aug. 21	1419	347	68	951
Weller, Chester A., assignor of one-half to J. Gibney, Sing Sing, N. Y. Railway-signal	527,914	Oct. 23	2057	493	69	426
Weller, Franklin A., assignor of one-half to H. C. Hill, Boston, Mass. Switch-bar	513,745	Jan. 30	3369	831	66	767
Weller, George L., Elyria, Ohio. Steam-actuated valve	519,826	May 15	1569	384	67	859
Weller, Henry, Plainfield, Ill. Corn-harvester	525,375	Sept. 4	100	25	63	1168
Wellhoener, Daniel E. J., St. Louis, Mo. Box-fastener	524,876	Aug. 21	1549	379	68	974
Wellhoener, Daniel E. J., St. Louis, Mo. Spring-box-seal	525,376	Sept. 4	102	26	68	1163
Welling, John E., assignor of two-thirds to O. E. Frisbie and D. L. Evans, Cynthiana, Ky. Water-filter	516,981	Mar. 20	2068	489	66	1871
Wellington, J. Farnum, St. Paul, Minn. Automatic reel-guide	516,715	Mar. 20	1634	389	66	1789
Welliver, Frank. (See McCulloch and Welliver.)						
Wellman Sole Cutting Machine Company. (See Stickney, Allison M., assignor.)						
Wellman, Willard F., Cambridge, assignor to F. C. Pitcher, Medford, Mass. Roller-bearing	515,635	Feb. 27	2729	680	66	1412
Wellner, Georg, Brünn, Austria-Hungary. Flying apparatus	516,581	Mar. 13	1403	{ 333 334	66	1730
Wellpott, William H., and O. F. Boellner, St. Louis, Mo. Gas-burner attachment for heating curling-irons	523,187	July 17	1760	441	68	362
Wells, Benjamin W. (See Martin, Morris, assignor.)						
Wells, Charles C., San Francisco, Cal. Railway-joint bridge	526,954	Oct. 2	467	115	69	88
Wells, David M., Clifton Springs, and A. Q. Allis, Plattsburg, N. Y. Antitrust-ware	526,357	Sept. 18	1802	426	68	1507
Wells, Edward C., Boston, Mass. Monkey-wrench	513,354	Jan. 23	2694	653	66	608
Wells, Elisha F., Louisville, Ky. Grain-binding harvester	520,153	May 22	2138	{ 521 522	67	917
Wells, Frank H., <i>et al.</i> (See Larsen, August, assignor.)						
Wells, George E., Walton, N. Y. Buttonhole-bouquet holder	512,779	Jan. 16	1774	421	66	363
Wells Harlan P., assignor of one-half to O. Morrill, Amesbury, Mass. Carriage	516,321	Mar. 13	949	223	66	1647
Wells, Harvey J., Osceola Mills, Pa. Electric-lighting system	515,806	Mar. 6	126	30	66	1477

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Wells, Helen A. (See Oswald, Phillip, assignor.)						
Wells, Jesse A., Guyandotte, W. Va. Nut-lock	524,034	Aug. 7	110	24	68	682
Wells, John C., assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Alarm-bell	513,627	Jan. 30	3173	779	66	731
Wells, Matthew. (See Fairbairn and Wells.)						
Wells, Philip D. (See Brokaw, Isaac, assignor.)						
Wells, William D., Ava, Ill. Coffee-pot	523,188	July 17	1761	441	68	363
Wellsted, William H., Gladstone, Mich. Feed-trough	516,339	Mar. 13	981	233	66	1652
Welsbach Light Company. (See Moreau and Miner, assignors.)						
Welsh, Samuel. (See Lewis, William T., assignor.) (Reissue.)						
Welsh, Thomas J., York, Ill. Bench-vise	522,501	July 3	554	141	68	109
Welsh, William, <i>et al.</i> (See Dobbins, Douglas, assignor.)						
Welsh, William H., Somerville, Mass. Type-casting machine	524,099	Aug. 7	217	50, 51	68	701
Welspiel, Leonie, San Francisco, Cal. Type-writing machine	516,384	Mar. 13	1069	254	66	1666
Welton, George W., Jr. (See Welton, John A. and G. W., Jr.)						
Welton, John A. and G. W., Jr., Canton, Ohio. Steam-generator	515,267	Feb. 20	2122	526	66	1284
Welty, Perley G. (See Brown and Welty.)						
Weltzin, Carl O., Primrose, Wis. Corn-planter	524,430	Aug. 14	813	{ 198 199 }	{ 68	827
Wemple, Andrew, assignor of one-half to J. S. Pihlstrom, Chicago, Ill. Band-cutter and feeder for thrashing-machines	518,729	Apr. 24	2248	566	67	454
Wemple, George W., Boston, Mass. Bar-horseshoe	522,770	July 10	1043	237	68	213
Wemple, George W., Boston, Mass. Bar-horseshoe	522,771	July 10	1044	257	68	213
Wemple, Mark, Chicago, Ill., assignor of one-half to F. H. Vrooman. Thill-coupling	526,473	Sept. 25	2030	484	68	1561
Wemple, William R., assignor to Automatic Hatch Door Company, New York, N. Y. Self-closing hatchway	516,037	Mar. 6	499	115	66	1545
Wendelboe, Paul, assignor to Stock Quotation Telegraph Company, New York, N. Y. Means for limiting tension of driving-springs	525,037	Aug. 28	1850	{ 451 452 }	{ 68	1046
Wendelin, Wolfgang, Vienna, Austria-Hungary, assignor to Siemens & Halske, Berlin, Germany. Switch setting and locking device	513,548	Jan. 30	3039	749	66	708
Wendell, Frederick C., Brooklyn, N. Y. Ironing-machine	518,871	Apr. 24	2470	612	67	495
Wendell, Frederick C., Brooklyn, N. Y. Ironing-machine	518,872	Apr. 24	2474	{ 612 613 }	{ 67	496
Wendell, Menzo E., Troy, N. Y. Ironing-machine	514,049	Feb. 6	119	28	66	876
Wendling, Méloé, L., Paris, France. Apparatus for training athletes	522,244	July 3	118	28	68	22
Wendling, Theobald, assignor to C. Cron, Mannheim, Germany. Bottle-washer	526,277	Sept. 18	1651	390	68	1478
Wendt, Carl E., Berlin, Germany. Cupboard for toilet utensils	523,823	July 31	2872	713	68	597
Wendt, Henry W., assignor to Buffalo Forge Company, Buffalo, N. Y. Forge	529,845	Nov. 27	2347	559	69	1123
Wendté, William C., Boston, Mass. Printing-press	536,812	Dec. 11	1287	312	69	1466
Wendté, William C., Boston, Mass. Perfecting-press for printing sheets	530,813	Dec. 11	1288	312	69	1466
Wendté, William C., assignor to E. L. Forbes, Boston, Mass. Multicolor-printing press	517,907	Apr. 10	803	202	67	169
Wendté, William C., assignor to E. L. Forbes, Boston, Mass. Multicolor-printing press	517,908	Apr. 10	806	{ 202 203 }	{ 67	169
Wendté, William C., assignor to E. L. Forbes, Boston, Mass. Multicolor-printing press	519,461	May 8	941	228	67	732
Wendté, William C., assignor to E. L. Forbes, Boston, Mass. Multicolor-printing press	519,462	May 8	943	228	67	732
Wendté, William C., assignor to W. H. Forbes, Boston, Mass. Inking apparatus for printing-presses	520,345	May 22	2467	598	67	1039
Wendté, William C., assignor to W. H. Forbes, Boston, Mass. Inking apparatus for printing-presses	520,346	May 22	2469	{ 598 599 }	{ 67	1039
Wenger, John E., Paradise, Pa. Mechanical artificial flower for advertising purposes	530,870	Dec. 11	1379	329	69	1481
Wenger, Julius. (See Hatch and Wenger.)						
Wenger, Milton, New Holland, Pa. Wrench	525,435	Sept. 4	198	49	68	1188
Wengert, Michael. (See Schuler, Otto, assignor.)						
Wenk-Wolf, Adolf, and O. Strohbach, Mannheim, Germany. Rope-coupling	513,746	Jan. 30	3371	831	66	767
Wenker, Georg, Marburg, Germany. Book-shelf	517,503	Apr. 3	147	32	67	30
Wennberg, Carl F., Jönköping, Sweden. Steam or other fluid pressure engine	514,295	Feb. 6	558	{ 139 140 }	{ 66	958
Wenström, Jonas, Örebro, Sweden. Dynamo-electric machine	515,366	Feb. 27	2340	581	66	1337
Wentz, Jacob F., Sandusky, Ohio. Lathe-dog	512,997	Jan. 16	2141	510	66	431
Wenzel, Hermann, Schönlinde, Austria-Hungary. Shedding mechanism for looms	527,093	Oct. 9	675	{ 165 166 }	{ 69	142
Werlé, William, Cleveland, Ohio. Pressure-regulator	516,251	Mar. 13	849	198	66	1627
Werline, Henry E., assignor of three-fourths to F. S. Barr, Lancaster, E. L. Reinhold and H. B. Cassel, Marietta, Pa. Electric switch	520,279	May 22	2353	571	67	1017
Wern, Erik G. P., Brooklyn, assignor to Pelham Hod Elevating Company, New York, N. Y. Cable-support	527,306	Oct. 9	1036	251	69	206
Wern, Gustaf P., Brooklyn, assignor to Pelham Hod Elevating Company, New York, N. Y. Chain-hod-elevator	527,305	Oct. 9	1034	251	69	206
Wern, Gustaf P., Brooklyn, assignor to Pelham Hod Elevating Company, New York, N. Y. Elevator-platform	527,307	Oct. 9	1037	251	69	206
Werner, Albert Y. (See Marshall, Ianthus E., assignor.)						
Werner, August, Brooklyn, N. Y. Method of and apparatus for racking beer	519,558	May 8	1125	{ 270 271 }	{ 67	764
Werner, August, Brooklyn, N. Y. Bottling-machine	526,595	Sept. 25	2208	528	68	1595
Werner, August, assignor of two-fifths to T. J. Osborne, Pioche, Nev. Pencil-sharpener	517,784	Apr. 3	619	154	67	120
Werner, Charles J. (See Schmidt and Werner.)						
Werner, Clement J. (See Werner, Louis A. and C. J.)						
Werner, Emil, Cleveland, Ohio. Typographic machine	519,516	May 8	1034	{ 250 251 252 253 }	{ 67	747
Werner, Emil, Cleveland, Ohio. Typographic machine and attachment	519,517	May 8	1050	{ 254 255 119 120 }	{ 67	751
Werner, Louis A. and C. J., Boston, Mass. Automatic electric fire-alarm and signal	519,213	May 1	494	{ 119 120 }	{ 67	633
Werner & Pfeiderer. (See Williams, John E., assignor.)						
Wertz, Walter J. (See Smith, Job, assignor.)						
Wertheimer, Mauritius, Berlin, Germany. Speculum	519,623	May 8	1244	298	67	785
Wertheimer, Monroe A., San Diego, assignor of two-thirds to C. E. and H. P. Bancroft, San Francisco, Cal. Adjustable desk	517,633	Apr. 3	358	85	67	70
Wertzberger, Herman V., Glenwood Springs, Colo. Door-check	528,049	Oct. 23	2307	556	69	471
Wescott, Harriet J., Somerville, Mass. Protector for ladies' boots	519,053	May 1	185	44	67	572
Wesol, Ferdinand, Brooklyn, N. Y. Printer's proof-press	512,780	Jan. 16	1774	421	66	363
Wesely, Veit, Vienna, Austria-Hungary. Watch-holder	514,050	Feb. 6	120	28	66	876
Weser, John A., New York, N. Y. Music-rack for musical-instrument cases	514,249	Feb. 6	477	117	66	942

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Weser, John A., New York, N. Y. Pianoforte.....	523,092	July 17	1564	{ 393 391 }	68	327
Wessel Curled Grass Manufacturing Company. (See Wessel, Karl, assignor.)						
Wessel, Ferdinand A. (See Egger and Wessel.)						
Wessel, Ferdinand A., and E. Egger, assignors of one-fourth to A. Naumburg, New York, N. Y. Flexible gear for electric-car trucks.....	531,351	Dec. 25	2248	{ 536 537 }	69	1670
Wessel, Karl, Lansing, assignor to Wessel Curled Grass Manufacturing Company, Chicago, Ill. Hay-curling machine.....	515,891	Mar. 6	251	59	66	1501
Wesson, Daniel B., Springfield, Mass. Swinging cylinder and trigger-lock for revolvers.....	517,152	Mar. 27	2377	562	66	1946
Wesson, Daniel B., Springfield, Mass. Revolver-lock mechanism.....	520,468	May 29	2665	644	67	1092
Wesson, Daniel B., Springfield, Mass. Sash-fastener.....	526,278	Sept. 18	1654	390	68	1478
Wesson, James L. (See Cronin, John M., assignor.)						
Wesson, James L. (See Leavitt, John E., assignor.)						
Wesson, Joseph H., Springfield, Mass. Handle for firearms.....	525,246	Aug. 28	2207	537	68	1107
Wesson, Miley B., Fort Worth, Tex. Ice-hook.....	524,230	Aug. 7	445	105	68	743
West, Augustine C., Cambridge, Mass. Oil-stove.....	530,609	Dec. 11	954	234	69	1465
West, Charles E., Santa Cruz, Cal. Follower for brine-barrels.....	526,474	Sept. 25	2032	484	68	1561
West, Charles F., Pioneer, Ohio. Pump attachment for windmills.....	512,595	Jan. 9	1437	346	66	282
West, Edward, et al. (See West, John, assignor.)						
West, Francis H., Portland, Oreg. Dish-cleaner.....	518,298	Apr. 17	1481	{ 370 371 }	67	304
West, James, Aken, Tex. Egg-grate.....	514,051	Feb. 6	121	28	66	876
West, John, assignor of one-half to G. W. Reed and F. West, Braddyville, Iowa. Fly-screen.....	511,980	Jan. 2	432	98	66	80
West, Jonathan B., Rochester, N. Y. Machine for setting tires.....	520,817	June 5	109	24 25	67	1216
West, Jonathan B., Rochester, N. Y. Machine for setting tires.....	524,269	Aug. 7	502	{ 116 117 }	68	752
West, Josiah E. (See Laraway and West.)						
West, London, Lanier, Ohio. Link-lifter.....	514,875	Feb. 13	1497	376	66	1154
West, William F., assignor to C. Gould, New York, N. Y. Igniter for gas-motors.....	513,229	Jan. 23	2596	629	66	590
West, William H. H., Jerseyville, Ill. Farm-gate.....	514,102	Feb. 6	198	46	66	892
Westbay, James A. and W. T., McKeesport, Pa. Vending-machine.....	521,839	June 26	1926	{ 461 462 }	67	1597
Westbay, William T. (See Westbay, James A. and W. T.)						
Westby, Joseph, Sheffield, and J. Whitfield, Menston, Wharfedale, England. Means for attaching knives to their handles.....	523,452	Oct. 30	3010	727	69	612
Westcott Chuck Company. (See Westcott, James H., assignor.)						
Westcott, Eugene M., Hampton, Iowa. Carburetor.....	527,639	Oct. 16	1584	383	69	322
Westcott, James H., assignor of one-half to Westcott Chuck Company, Oneida, N. Y. Drill-chuck.....	527,227	Oct. 9	897	217	69	183
Westcott, Melvin D., assignor of one-half to L. R. Lewis, Cortland, N. Y. Flash-light burner.....	526,661	Sept. 25	2324	556	68	1616
Westcott, Melvin D., assignor of one-half to L. R. Lewis, Cortland, N. Y. Flash-light burner.....	526,662	Sept. 25	2326	556	68	1617
Westcott, Samuel B., Hill's Grove, R. I. Stop-motion.....	519,463	May 8	945	228	67	733
Westerbeck, Frederick, St. Louis, Mo. Direct bail attachment for cans.....	512,998	Jan. 16	2142	510	66	431
Westerbeck, Frederick, St. Louis, Mo. Hermetic seal for cans.....	515,268	Feb. 20	2123	527	66	1224
Westerfield, Eugene T., assignor to Westerfield Wagon and Sprinkling Truck Company, New York, N. Y. Sprinkling-wagon.....	527,353	Oct. 9	1110	271	69	220
Westerfield Wagon and Sprinkling Truck Company. (See Westerfield, Eugene T., assignor.)						
Westerhoff, Henry and P. D., Paterson, N. J. Swivel-loom.....	519,802	May 15	1532	374	67	851
Westerhoff, Peter D. (See Westerhoff, Henry and P. D.)						
Westerlin, John M., Chicago, Ill. Condenser.....	519,654	May 8	1293	309	67	793
Westerman, Frederick, Chicago, Ill. Device for preventing leakage about journals of mixing-machines.....	528,050	Oct. 23	2308	556	69	471
Western Autographic Register Company. (See Dick, John W., assignor.)						
Western Automatic Car Coupling Company. (See Ker, George, assignor.)						
Western Electric Company. (See Briggs and Patterson, assignors.)						
Western Electric Company. (See Carty, John J., assignor.)						
Western Electric Company. (See Clark, Martin M., assignor.)						
Western Electric Company. (See Farnham, Isaiah H., assignor.)						
Western Electric Company. (See Haskins, Charles D., assignor.)						
Western Electric Company. (See McBerry, Frank R., assignor.)						
Western Electric Company. (See Scribner, Charles E., assignor.)						
Western Electric Company. (See Scribner and Warner, assignors.)						
Western Electric Company. (See Seter, Michael, assignor.)						
Western Electric Company. (See Steiner, Josef, assignor.)						
Western Electric Company. (See Warner, Ernest P., assignor.)						
Western Engravers' Supply Company. (See Schrauhstadter and Schilling, assignors.)						
Western Gas Construction Company. (See Bahret, Christian, assignor.)						
Western Leather Manufacturing Company. (See Teed, Oliver F., assignor.)						
Western Patent Company. (See Bartlett, Eavre O., assignor.)						
Western Union Telegraph Company. (See Edison, Thomas A., assignor.)						
Western Union Telegraph Company. (See Fiske, Bradley A., assignor.)						
Western Union Telegraph Company. (See Scott, George A., assignor.)						
Western Wheelbarrow Company. (See Kimball, James F., assignor.)						
Western Wheelbarrow Company. (See McKnight, Thomas R., assignor.)						
Westervelt, Edmund C., and C. W. Clapp, South Bend, Ind. Sulky-plow.....	526,983	Oct. 2	511	125	69	96
Westhafer, John B. (See Kline and Westhafer.)						
Westinghouse Air Brake Company. (See Bayley, Richard W., assignor.)						
Westinghouse Air Brake Company. (See Clark, Francis L., assignor.)						
Westinghouse Air Brake Company. (See Hagan, Thomas J., assignor.)						
Westinghouse, Church, Kerr & Company. (See Church, William L., assignor.)						
Westinghouse, Church, Kerr & Company. (See Church and Reeve, assignors.)						
Westinghouse, Church, Kerr & Company. (See Roney and Stranahan, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Davis, Harry P., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Kirker and Chambers, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Lange and Lamme, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Potter, Henry N., assignor.)						
Westinghouse Electric and Manufacturing Company. (See Schmid, Albert, assignor.)						
Westinghouse Electric and Manufacturing Company. (See Schmid and Lamme, assignors.)						
Westinghouse Electric and Manufacturing Company. (See Scott, Charles F., assignor.)						
Westinghouse, George, Jr., Pittsburg, Pa. System of electrical distribution.....	524,749	Aug. 21	1340	327	68	936

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Westinghouse, George, Jr., and C. F. Scott, Pittsburg, Pa. Converter system for electric railways.....	520,975	June 5	404	97	67	1270
Westinghouse, George H., Buffalo, N. Y. Vehicle-axle.....	517,203	Mar. 27	2472	582	66	1964
Westinghouse, Henry H., Pittsburg, Pa. Quick-action triple valve.....	518,929	Apr. 24	2580	638	67	516
Westlake, Adelaide C. (See Schultz and Westlake.) (Reissue.).....						
Westlake, Charles T., St. Louis, Mo. Car-bolster.....	514,797	Feb. 13	1371	345	66	1130
Westlake, William H. S., Lock 4, Pa. Trunk.....	517,711	Apr. 3	501	{ 120 121 }	{ 67 }	97
Westlin, Bror E. (See Yeager and Westlin.).....						
Westman, Gustaf M., Hackettstown, N. J. Manufacturing gas.....	517,202	Mar. 27	2470	{ 581 582 }	{ 66 }	1964
Weston, Charles W. (See Leonard, Benjamin, assignor.).....						
Weston, Charles W., San Francisco, Cal. Ventilated fruit-basket.....	523,834	Nov. 6	578	137	69	751
Weston, Charles W., San Francisco, Cal. Wood-veneer-made basket.....	528,835	Nov. 6	579	137	69	751
Weston, Edward, Newark, N. J. Electrical measuring-instrument.....	522,948	July 10	1325	330	68	267
Weston, Edward, Newark, N. J. Watt meter.....	522,949	July 10	1329	330	68	267
Weston, Edward, Newark, N. J. Electrical measuring-instrument.....	522,950	July 10	1330	331	68	263
Weston, Edward, Newark, N. J. Scale and index for electrical measuring-instruments.....	527,034	Oct. 2	595	144	69	112
Weston, Edward, Newark, N. J. Electrical measuring-instrument.....	529,434	Nov. 20	1652	393	69	986
Weston, Edward, Newark, N. J. Electrical measuring-instrument.....	529,435	Nov. 20	1654	{ 393 394 }	{ 69 }	987
Weston, Edward, Newark, N. J. Electrometer.....	530,145	Dec. 4	113	30	69	1236
Weston, Edward D., assignor of one-half to R. Gage and B. D. Legg, Jackson, Mich. Flue-cleaner.....						
Weston, Edward L., Washington, D. C. Waste-paper basket.....	518,638	Apr. 24	2077	518	67	425
Weston, Edward L., Washington, D. C. Ice-cream freezer.....	518,476	Apr. 17	1809	447	67	363
Weston, Frank C., Bangor, Me. Bicycle-lantern.....	526,596	Sept. 25	2211	528	68	1585
Weston, Frank C., Bangor, Me. Bicycle-lantern holder.....	511,981	Jan. 2	423	98	66	81
Weston, George H., Boston, Mass. Rotary engine.....	511,982	Jan. 2	424	99	66	81
Weston, Thomas A., Stamford, Conn. Friction-clutch.....	516,365	Mar. 13	1072	254	66	1667
Weston, Thomas A., Stamford, Conn. Friction-clutch.....	523,874	July 31	2966	{ 738 739 }	{ 68 }	615
Weston, William S., Chicago, Ill. Electric-lamp hanger.....	526,825	Oct. 2	253	62	69	48
Westwell, William, Accrington, England. Stretching apparatus for calico block printing machines.....	530,373	Dec. 4	523	{ 130 131 }	{ 69 }	1310
Wetherbee, Frank W., Waltham, Mass. Machine for enameling the faces of watch-dials.....	512,136	Jan. 2	675	162	66	129
Wethered, Woodworth. (See Tardif and Wethered.).....						
Wetherill, Albert L., Philadelphia, Pa. Heliograph attachment.....	527,640	Oct. 16	1585	383	69	323
Wetmore, Earl P., Helena, Mont. Electrical water-wheel governor.....	519,597	May 8	1192	288	67	776
Wetmore, Jerome W., Erie, Pa. Fuel-feeding device for furnaces.....	524,518	Aug. 14	956	235	68	853
Wetmore, Jerome W., Erie, Pa., assignor, by mesne assignments, to Van Wagoner & Williams Hardware Company, Jersey City, N. J. Pneumatic door-check.....	521,747	June 19	1763	418	67	1551
Wetmore, Job B., Wellsborough, Pa. Drag-saw.....	516,418	Mar. 13	1122	266	66	1677
Wetmore, John S. (See Jones and Wetmore.).....						
Wetscherek, Theodor, Vienna, Austria-Hungary. Cooking utensil.....	515,565	Feb. 27	2620	651	66	1390
Wetter, Joseph. (See Reinhardt, James H., assignor.).....						
Wetter, Joseph. (See Sanuers, Frank, assignor.).....						
Wetter, Joseph. (See Wicht, Frank W., assignor.).....						
Wettersvik, Axel, assignor of one-half to N. E. Lindholm, Chicago, Ill. Combined wash-stand and table.....	516,621	Mar. 13	1467	347	66	1742
Wetton, John M. (See Wyckoff and Wetton.).....						
Wettstein, Hermann, and C. Rödmann, Philadelphia, Pa. Flag-staff coupling.....	521,063	June 5	556	130	67	1297
Wetzel, Hermann, Paris, France. Classifier for newspapers, reviews, or other printed matter.....	526,279	Sept. 18	1656	390	68	1479
Wever, Charles A. (See Rosson and Wever.).....						
Wexler, George, Brooklyn, and E. Nienstaedt, New York, N. Y. Device for making ink.....	517,371	Mar. 27	2746	616	66	2018
Weyand, Charles L., New York, N. Y. Shoe attachment.....	518,682	Apr. 24	2156	539	67	439
Weyer, Henry H., Bedford, Ind. Beehive.....	516,340	Mar. 13	982	233	66	1653
Weyhe, Charles F., St. Paul, Minn. Combined clamp and vise.....	529,765	Nov. 27	2206	526	69	1096
Weyhe, Hermann C. W., assignor to E. A. Pilgram, Bremen, Germany. Packing or sound-deadening device for windows or doors.....	520,226	May 22	2264	551	67	1000
Weyher, Frederic A., Pantin, France. Speed-regulator.....	518,799	Apr. 24	2361	{ 585 586 }	{ 67 }	475
Weyman, James E., and J. A. Drake, Guilford, England. Means or apparatus for effecting and controlling the supply of hydrocarbon to hydrocarbon-motors.....	528,836	Nov. 6	580	137	69	751
Wezen, Charles J., Wilmington, Del. Skate.....	530,610	Dec. 11	956	235	69	1406
Whalen, James E., Sault Ste. Marie, Mich. Record, biographical, and memorial cabinet.....	523,755	July 31	2755	684	68	575
Whalen, John B., Sycamore, Ill. Wire-painting device.....	523,093	July 17	1568	394	68	328
Whalen, Stephen F., Helena, Mont. Hose-coupling.....	528,051	Oct. 23	2310	557	69	471
Whaley, Barnett B., Brooklyn, N. Y. Cover for steps or stairs.....	514,342	Feb. 6	625	160	66	970
Whalin, John, Schenectady, N. Y. Combination-tool for punching and creasing horseshoes.....	518,434	Apr. 17	1738	432	67	351
Whalon, Richard, West Granville Corners, N. Y. Draw-bar for vehicles.....	531,454	Dec. 25	2442	581	69	1708
Wharton, John C. (See Woodfolk and Wharton.).....						
Whately, George W., Pleasant Valley, Tex. Plow.....	528,576	Nov. 6	91	23	69	662
Whayne, Robert C., Louisville, Ky. Adjustable bicycle-handle.....	525,171	Aug. 28	2103	511	68	1088
Wheat, Augustus C., assignor of one-half to W. Hubbard, Chicago, Ill. Automatic telephone-switch.....	513,960	Jan. 30	3695	910	66	833
Wheat, James M., St. Louis, Mo. Bread or cake box.....	517,085	Mar. 27	2273	536	66	1925
Wheatcroft, Thomas S., Rush, Pa. Vending-machine.....	530,216	Dec. 4	245	60	69	1260
Wheatfield, William S., New York, N. Y. Garment-fastener.....	530,737	Dec. 11	1173	285	69	1442
Wheatley, John A., and S. M. Worthington, Chicago, Ill. Vehicle-shaft support.....	525,125	Aug. 28	2008	491	68	1072
Wheatley, John R. (See Tunnell, John D., assignor.).....						
Wheatley, Thomas, Syracuse, N. Y. Wrench.....	520,099	Mar. 27	2023	494	67	958
Wheaton, Lindon S., Newark, N. J. Gate-valve.....	526,797	Oct. 2	211	51	69	40
Wheel, Edward T., Chicago, Ill. Plate holder for printing-plates.....	516,672	Mar. 20	1565	372	66	1777
Wheelan, Fairfax H. (See Jessup, Robert W., assignor.).....						
Wheeland, Charles E., Salt Lake City, Utah Terr. Game apparatus.....	524,475	Aug. 14	831	217	68	840
Wheeler, Albert G. (See Law, Myron D., assignor.).....						
Wheeler, Albert G. (See Towson, Morris S., assignor.).....						
Wheeler, Allen E., et al. (See Wheeler, Fred A., assignor.).....						
Wheeler, Charles S., et al. (See Buckbee, Charles E., assignor.).....						
Wheeler, Charles Y. (See Slocum, Frank L., assignor.).....						
Wheeler, Clarence L., Marion, Ind. Rail-joint.....	512,781	Jan. 16	1777	422	66	363
Wheeler, Clarence L., Marion, Ind. Rail-joint.....	512,751	Jan. 16	1903	449	66	387
Wheeler, Clarence L., Marion, Ind. Rail-joint.....	512,852	Jan. 16	1905	450	66	387
Wheeler, Claud C., Fairmont, W. Va. Horse checking or unchecking device.....	528,577	Nov. 6	92	23	69	663

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Name, residence, and invention.	No.	Date.	Monthly volume.		Official Gazette.	
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Wheeler Condenser and Engineering Company. (See Wheeler, Frederick M., assignor.)						
Wheeler, Cornelius. (See McGregor, Nelson H., assignor.)						
Wheeler, Cyrenus, Jr., Auburn, N. Y. Clothes-wringer.....	517,765	Apr. 3	621	155	67	121
Wheeler, David C. (See Wheeler, Dwight and D. C.)						
Wheeler, Dwight and D. C., Bridgeport, Conn. Shear-bow.....	529,513	Nov. 20	1802	428	69	1012
Wheeler, Earl G. (See Totman, John J., assignor.)						
Wheeler, Edgar T., assignor to F. J. Harrington, Los Angeles, Cal. Wooden pipe.....	517,909	Apr. 10	808	203	67	170
Wheeler, Frank, Meriden, Conn. Mat-cutting machine.....	513,851	Jan. 30	3531	869	66	800
Wheeler, Frank E., <i>et al.</i> (See Bauer and Johnson, assignors.)						
Wheeler, Fred A., assignor to Kand Sanitarium, Chicago, Ill. Truss.....	522,952	July 10	1334	331	68	269
Wheeler, Fred A., Chicago, Ill. assignor of twenty-three twenty-fourths to A. E. Wheeler, E. T. Specht, F. Weinhausen, W. Hinrichs, C. A. Rohde, Milwaukee, Wis., and R. V. Wagner, Chicago, Ill. Machine for crushing ore, &c.....	523,766	Nov. 27	2207	526	69	1096
Wheeler, Frederick M. (See Whiting and Wheeler.)						
Wheeler, Frederick M., Montclair, N. J., assignor to Wheeler Condenser and Engineering Company, New York, N. Y. Surface condenser.....	526,208	Sept. 18	1544	362	68	1457
Wheeler, Gage M. (See Ferris and Wheeler.)						
Wheeler, Harriet F., Freeport, Ill. Dishcloth-holder.....	513,223	Jan. 23	2477	598	66	565
Wheeler, Holland, Lawrence, Kans. Adjustable index for spirit-levels.....	516,142	Mar. 6	654	152	66	1575
Wheeler, Jesse G. (See Bowman, Hadoram, assignor.)						
Wheeler, Jesse L., Ridgway, Colo. Car-coupling.....	512,928	Jan. 16	2034	482	66	411
Wheeler, Joel H., <i>et al.</i> (See Burson, Harvey, assignor.)						
Wheeler, John E., Birmingham, Conn. Shoe-fitting stool.....	516,716	Mar. 20	1635	389	66	1789
Wheeler, Joshua S., Worcester, Mass. Metal-planing machine.....	531,489	Dec. 25	2501	595 596	69	1719
Wheeler, Russel, <i>et al.</i> (See Baner and Johnson, assignors.)						
Wheeler, Samuel H., Chicago, Ill., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machine.....	526,335	Sept. 18	1756	416	68	1500
Wheeler, Samuel H., Chicago, Ill., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Shaft-bearing.....	527,641	Oct. 16	1587	383	69	323
Wheeler, Samuel H., Chicago, Ill., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Needle-bar for sewing-machines.....	527,915	Oct. 23	2059	494	69	426
Wheeler, Seth, Albany, N. Y. Wrapping or toilet paper.....	511,983	Jan. 2	425	99	66	81
Wheeler, Seth, Albany, N. Y. Roll-paper holder.....	515,849	Mar. 6	191	45	66	1489
Wheeler, Seth, Albany, N. Y. Toilet-paper fixture.....	519,167	May 1	407	98	67	616
Wheeler, Walter O., Webster, Mass. Tack-distributor.....	518,933	Apr. 24	2597	643	67	519
Wheeler, Warren F., Stoneham, Mass. Snow-plow.....	518,749	Apr. 24	2285	567 568	67	461
Wheeler, William A., Littleton, N. H., assignor to E. & T. Fairbanks & Company, St. Johnsbury, Vt. Weighing-scale.....	528,837	Nov. 6	581	138	69	751
Wheeler & Wilson Manufacturing Company. (See Abercrombie, Charles M., assignor.)						
Wheeler & Wilson Manufacturing Company. (See Faust, John, assignor.)						
Wheeler & Wilson Manufacturing Company. (See Wheeler, Samuel H., assignor.)						
Whelless, Malone, Washington, D. C. Electric-railway supply system.....	524,773	Aug. 21	1381	336 337	68	944
Wheeling Corrugating Company. (See Grafton, William S., assignor.)						
Wheeling Corrugating Company. (See Grafton and Spears, assignors.)						
Wheeling Steel and Iron Company. (See Maddock, William H., assignor.)						
Whelan, Frank R. and R., Minneapolis, Minn. Capo tasto.....	513,165	Jan. 23	2392	577	66	549
Whelan, Roland. (See Whelan, Frank R. and R.)						
Whelpley, Joseph L., Boston, Mass. Skate.....	521,489	June 19	1328	309	67	1470
Wherry, Samuel C., Des Moines, Iowa. Portable folding bed.....	522,569	July 3	674	171	68	131
Whetstone, John T., and T. C. Baker, Washington, Kans. Combined scale and coffee-case.	528,052	Oct. 23	2310	557	69	472
Whilans, John W. (See Shultz, Charles H., assignor.)						
Whipple, George A., Diamond Hill, R. I. Harness-strap.....	518,575	Apr. 17	1969	487	67	391
Whipple, James L., Brattleborough, Vt. Track-harness.....	530,871	Dec. 11	1381	329	69	1482
Whipple, Volney C. (See Bleach, Theodore W., assignor.)						
Whipple, William R., Kellogg, assignor of one-half to W. H. Byars, Portland, Oreg. Surveying-instrument.....	519,010	May 1	116	28	67	558
Whipps, Solomon S., Le Sueur Centre, Minn. Propeller for vessels.....	528,265	Oct. 30	2687	648	69	556
Whisson, Elisha, assignor of one-half to H. W. Wilcox, Lemars, Iowa. Forceps.....	525,300	Aug. 28	2290	556	68	1125
Whitacre, William C., St. Louis, Mo. Engineer's valve.....	524,154	Aug. 7	322	76	68	721
Whitacre, William C., assignor of two-thirds to J. Baumgartner and S. Knapp, St. Louis, Mo. Triple valve.....	512,241	Jan. 2	844	204 205	66	160
Whitaker, Albert E., La Porte, Ind. Motor.....	517,712	Apr. 3	504	121	67	97
Whitaker, Charles B., Charlotte, and E. D. Lyon, Carson City, Mich. Bicycle.....	527,396	Oct. 9	1183	290	69	235
Whitaker, Clarence E., assignor to J. C. Bennett, Lynn, Mass. Bicycle.....	518,338	Apr. 17	1558	387	67	317
Whitaker, Clarence E., assignor to J. C. Bennett, Lynn, Mass. Bicycle.....	519,855	May 15	1618	394	67	868
Whitaker, David W., assignor of three-fourths to T. E. Whitaker, R. R. Bridgers, and N. F. Boone, Durham, N. C. Drip attachment for umbrellas.....	515,636	Feb. 27	2730	680	66	1412
Whitaker, Thomas E., <i>et al.</i> (See Whitaker, David W., assignor.)						
Whitall, James, Chicago, Ill. Cable-gripper.....	528,313	Oct. 30	2776	670	69	570
Whitcher, Frank W. (See Conant, Fred L., assignor.)						
Whitcher, Frank W. (See Dalton, Daniel F., assignor.)						
Whitcomb, James, and A. Wotring, Ozden Centre, Mich. Tension device for grain-binders.	520,624	May 29	2919	706	67	1139
Whitcomb, William E., Barre, Vt. Derrick.....	511,364	May 8	787	192	67	704
White, Albert, assignor to S. C. Smith, Lowell, Mass. Heel-nailing machine.....	519,144	May 1	359	86, 87	67	607
White, Alfred, Minneapolis, Minn. Rendering-tank.....	526,091	Sept. 18	1337	311	68	1419
White, Alonzo L., and S. J. Dean, Champaign, Ill. Clamp for wagon-bodies.....	525,639	Sept. 4	526	127	68	1249
White, Amelia L., Lima, Ohio. Lunch-heater.....	530,146	Dec. 4	117	30	69	1237
White, Anderson G., Allegheny, Pa. Fire-escape.....	522,639	July 10	800	199	68	170
White, Andrew J. (See Fee, William R., assignor.)						
White, Anthony C., deceased; F. A. White, administratrix, assignor to American Bell Telephone Company, Boston, Mass. Telephone.....	516,982	Mar. 20	2069	490	66	1871
White, Asher A. (See Davis, Charles M., assignor.)						
White, Benjamin F., assignor to B. H. Hershey and M. Hagey, Mannheim, Pa. Forced-draft tuyere.....	522,815	July 10	1112	275	68	225
White, Cassius A., Jamaica, Vt. Mop-wringer.....	525,803	Sept. 11	840	190 191	68	1317
White, Charles E., Syracuse, N. Y. Valved-can.....	513,256	Jan. 23	2548	613	66	580
White, Charles E., assignor of seven-twentieths to R. X. De Grau, Kansas City, Mo. Gas apparatus.....	517,910	Apr. 10	810	204	67	170
White, Charles E., assignor to Deere & Mansur Company, Moline, Ill. Hay rake and loader.....	518,085	Apr. 10	1111	281 282	67	219

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White, Charles G., Woodland, Cal. Nail-set.	530,252	Dec. 4	309	77	69	1272
White, Charles H., assignor to E. W. White, Stoughton, Mass. Railway-crossing.	514,343	Feb. 6	626	160	66	970
White, Charles J., (See Pelton, Francis A., assignor.)						
White, Charles J., New Britain, Conn. Garment-supporter.	521,560	June 19	1444	336	67	1491
White, Clarence O., assignor to White Manufacturing Company, Minneapolis, Minn. Starching-machine.						
White, Cornelius A., Carlisle, Ky. Gig-saddle.	524,431	Aug. 14	815	199	68	828
White, Daniel M., Boston, Mass. Tuning device.	518,435	Apr. 17	1739	432	67	351
White, David, and A. F. Lagerwall, assignors to American Extract and Supply Company, New York, N. Y. Machine for forming wire loops.	521,688	June 19	1665	391	67	1532
White, Eben T., and W. S. Forestell, assignors of one-fourth to G. W. Cromwell, Baltimore, Md. Steam-boiler furnace.	518,381	Apr. 17	1652	408	67	334
White, Edward, Louth, England. Watchmaker's combined tweezers and screw-driver.	523,756	July 31	2757	684	68	575
White, Eli, Sodas, N. Y. Hay-rack.	522,640	July 10	801	200	68	170
White, Elizabeth W., (See White, Charles H., assignor.)	513,549	Jan. 30	3042	749	66	708
White, Fannie A., administratrix. (See White, Anthony C.)						
White, Frank and I. F., Pomona, Cal. Snap-hook.	527,570	Oct. 16	1466	357	69	301
White, Frank L., Monroe, La. Cotton-press.	519,054	May 1	186	44	67	572
White, Franklin P., Shalotte, N. C. Axle-lubricator.	521,578	June 19	1478	346	67	1497
White, George W., et al. (See Reiley, Matthew S., assignor.)						
White, George W., Stowe, Vt. Lining for butter-boxes.	524,231	Aug. 7	446	105	68	743
White, Harry, Syracuse, N. Y. Thimble.	522,245	July 3	119	28, 29	68	23
White, Herbert P., Philadelphia, Pa. Automatic electro-magnetic switch.	513,065	Jan. 16	2239	538	66	450
White, Ira F., (See White, Frank and I. F.)						
White, James, et al. (See Timbrell and Fyfe, assignors.)						
White, James, London, England. Apparatus for drying barley, malt, &c.	513,694	Jan. 30	3286	809	66	752
White, James H., et al. (See Dubbs, Jesse A., assignor.)						
White, James H., assignor to Manhattan Brass Company, New York, N. Y. Fireplace-frame.	513,255	Jan. 23	2547	613	66	580
White, James H., Reading, assignor to H. C. Barnes, Boston, Mass. Violin-bow holder.	522,543	July 3	621	158	68	122
White, James M., et al. (See Reiley, Matthew S., assignor.)						
White, Joel W., Providence, R. I., assignor of one-half to A. T. and G. A. Wall. Automatic circuit-closer.	523,701	July 31	2637	659	68	557
White, Joel W., Providence, R. I., assignor of one-half to A. T. and G. A. Wall. Fire-alarm system.	524,973	Aug. 21	1712	420	68	1003
White, John E., (See White, John L. and J. E.)						
White, John H., De Witt, Iowa. Railway-track structure.	520,469	May 29	2667	645	67	1092
White, John L. and J. E., Wakefield, Va. Car-coupling.	531,490	Dec. 25	2502	596	69	1719
White, Joseph J., New Lisbon, N. J., assignor of one-half to Pennsylvania Machine Company, Philadelphia, Pa. Spacing-nail.	528,406	Oct. 30	2932	709	69	598
White, Joseph W., assignor of one-half to W. S. Tyler Wire Works Company, Cleveland, Ohio. Wire-cloth for paper-machines.	512,347	Jan. 9	1018	249	66	204
White, Lewis B., Riverside, R. I. Ball-caster.	528,266	Oct. 30	2691	648	69	556
White Manufacturing Company. (See Benjamin, Dana H., assignor.)						
White Manufacturing Company. (See White, Clarence O., assignor.)						
White, Melvin L., Brooklyn, N. Y. Cork-puller.	524,035	Aug. 7	111	24	68	682
White, Nathan D., assignor to Taplin, Rice & Company, Akron, Ohio. Stove-damper, &c.	529,224	Nov. 13	1258	303	69	894
White, Orsamus A., Norwalk, Ohio. Combined level, plumb, and slope-indicator.	531,239	Dec. 18	2047	488	69	1617
White, Oscar B., (See Waring and White.)						
White, Peter, St. Louis, Mo. Water-closet apparatus.	514,103	Feb. 6	199	46	66	892
White, Robert. (See Dufresne, Napoleon, assignor.)						
White, Robert E. L., et al. (See Reiley, Matthew S., assignor.)						
White, Robert J., (See Clayton, Charles W., assignor.)						
White, Samuel A., Harrisburg, Pa. Bicycle.	522,570	July 3	675	171	68	131
White Sewing Machine Company. (See Baker, George W., assignor.)						
White, Silas E., Watertown, N. Y. Watchman's shot-proof box.	517,086	Mar. 27	2274	537	66	1926
White, T. Stewart, et al. (See Billings, George W., assignor.)						
White, T. Stewart, et al. (See Childs, Charles H., assignor.)						
White, T. Stewart, et al. (See Raymond, Emma H., assignor.)						
White, Thomas, Saginaw, Mich. Door-plate and memorandum-slate.	514,977	Feb. 20	1655	414	66	1198
White, Uriah M., and C. E. Le Count, Cincinnati, Ohio. Autographic copying apparatus.	513,693	Jan. 30	3285	809	66	752
White, Warren T., Bonham, Tex. Assignor of one-third to Lusk & Thurmond. Trawl-line.	523,561	July 24	2404	602	68	495
White, William, Nashua, N. H. Wool-drier.	523,875	July 31	2968	739	68	615
White, William, assignor of one-half to T. E. Bladon, Birmingham, England. Regenerative gas-lamp.	526,955	Oct. 2	468	115, 116	69	88
White, William B., Jackson, Mich. Adjustable and folding chair.	515,387	Feb. 27	2341	581	66	1337
White, William F., Chicago, Ill. Car-coupling.	514,296	Feb. 6	559	140	66	958
White, William H., Rome, Ga. Combined chair and step-ladder.	514,876	Feb. 13	1498	376	66	1154
White, William H., Apollo, Pa. Annealing box.	527,642	Oct. 16	1558	384	69	323
Whiteaker, George W., et al. (See Gillet, Alexis F., assignor.)						
Whiteaker, James D., et al. (See Gillet, Alexis F., assignor.)						
Whitehead, Benjamin S., Newark, N. J. Badge.	521,198	June 12	793	186	67	1354
Whitehead, Charles. (See Moomy and Whitehead.)						
Whitehead, George H., et al. (See Green, William A., assignor.)						
Whitehead, John S., Detroit, Mich. Electric alarm-clock.	521,065	June 5	560	131	67	1298
Whitehead, Joseph H., (See Barber and Whitehead.)						
Whitehead, Samuel B., San Francisco, Cal. Stamping-machine.	515,566	Feb. 27	2622	651	66	1390
Whitehead, Samuel B., San Francisco, Cal. Training apparatus.	529,987	Nov. 27	2608	626	69	1173
Whitehead, William, Manchester, assignor to J. B. Atherton, Rainhill, England. Parallel vise.	514,344	Feb. 6	627	160	66	970
Whitehead, William T., (See Graemiger and Whitehead.)						
Whiteley, Amos. (See Broom, Henry, assignor.)						
Whiteley, Amos. (See Broom, Whiteley, and Hinckley.)						
Whiteley, Herbert D., Chetham, England. Wearing surface for door-mats, floors, &c.	527,094	Oct. 9	678	166	69	142
Whiteley, William N., assignor to C. A. Kitts, Muncie, Ind. Hay-tedder.	530,147	Dec. 4	118	30	69	1237
Whiteley, William N., and W. Bayley, Springfield, Ohio, assignors to said Whiteley. Knotter for grain-binders.	525,672	Sept. 4	588	140, 141	68	1259
Whiteman, F. M., (See Gaskell, Silas S. C., assignor.)						
Whiteside, Henry, Sussex, Canada. Sofa-bed.	525,436	Sept. 4	201	50	68	1188
Whitesides, F. N., et al. (See Dobbins, Douglas, assignor.)						
Whitesides, L. Byron, et al. (See Dobbins, Douglas, assignor.)						
Whitfield, Charles. (See Price, Harry B., assignor.)						
Whitfield, Charles, Kettering, England. Mechanism for operating plungers.	522,279	July 3	187	51	68	39
Whitfield, Joseph. (See Westly and Whitfield.)						
Whitfield, Nathan B., Portland, Oreg. Umbrella-lock.	524,923	Aug. 21	1627	399	68	988

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Whitin Machine Works. (See Owen, Henry A., assignor.)						
Whitin Machine Works. (See Taft, Cyrus A., assignor.)						
Whitin Machine Works. (See Woodmaney, Henry F., assignor.) (Reissue.)						
Whiting, Fred E. (See Whiting, George F., assignor.)						
Whiting, George B., Wilmington, Del., and F. M. Wheeler, Montclair, N. J., assignors to George F. Blake Manufacturing Company, of New Jersey. Pumping-engine.	526,913	Oct. 2	414	102	69	77
Whiting, George F., North Cambridge, assignor to F. E. Whiting, Boston, Mass. Brush-support.	527,032	Oct. 2	592	143	69	111
Whiting, George L., Waterbury, Nebr. Cultivator.	518,683	Apr. 24	2157	539	67	440
Whiting, John H., Detroit, Mich. Cupola-furnace.	526,914	Oct. 2	415	102	69	78
Whiting, John K., <i>et al.</i> (See Page, Herbert S., assignor.)						
Whiting, Phineas S., Hiawatha, Kans., assignor to Wilson & Company, Des Moines, Iowa. Lubricator.	519,055	May 1	188	45	67	572
Whitlaw, Charles M., <i>et al.</i> (See Potter, George D., assignor.)						
Whitlock, Benjamin M., New York, N. Y., assignor to Interstate Coupler Company, Jersey City, N. J. Car-coupling.	517,504	Apr. 3	149	32	67	30
Whitlock, Benjamin M., New York, N. Y., assignor to Interstate Coupler Company, Jersey City, N. J. Car-coupling.	517,505	Apr. 3	150	33	67	31
Whitlock, Benjamin M., New York, N. Y., assignor to Interstate Coupler Company, Jersey City, N. J. Car-coupling.	517,506	Apr. 3	152	33	67	31
Whitlock Coil-Pipe Company. (See Shepard, Wilbur L., assignor.)						
Whitlock, George. (See Moore, Alfred H., assignor.)						
Whitman & Barnes Manufacturing Company. (See Lamb, Levi L., assignor.) *						
Whitman, Charles E., St. Louis, Mo. Baling-press.	531,240	Dec. 18	2048	488 459 120 121	69	1617
Whitman, Charles H., Detroit, Mich. Excelsior-cutting machine.	519,214	May 1	497	345	67	634
Whitman, Henry L., St. Louis, Mo. Grain-drill.	514,798	Feb. 13	1373	345	66	1130
Whitman, Orrin M., Boston, Mass. Refrigerator or butter-cooler.	529,148	Nov. 13	1120	271	69	870
Whitman, Thomas S., Annapolis, Canada. Curing and drying fish.	514,578	Feb. 13	1001	253	66	1059
Whitman, Walter L., Bridgeport, Pa. Lard-cooler.	512,642	Jan. 9	1518	365	66	299
Whitmore, Charles E., <i>et al.</i> (See Fletcher, Florence M., assignor.)						
Whitmore, David. (See Hanson, William H., assignor.)						
Whitmore, Edwin B., assignor of one-half to L. Emery, Jr., Three Rivers, Mich. Mid-dlings-purifier.	525,301	Aug. 28	2291	557	68	1125
Whitmore, Frederic C., Lynn, assignor to General Electric Company, Boston, Mass. Electric motor.	524,011	Aug. 7	72	16	68	675
Whitner, Hiram K., Chicago, Ill. Safety apparatus.	519,365	May 8	788	193	67	704
Whitney, Albert E., Muncie, Ind. Burial apparatus.	518,976	May 1	63	16	67	548
Whitney, Baxter D. (See Sawyer, Willard N., assignor.)						
Whitney, Baxter D., Winchendon, Mass. Boring-machine.	514,579	Feb. 13	1002	253	66	1059
Whitney, Baxter D., Winchendon, Mass. Machine for cutting barrel-staves, &c.	515,328	Feb. 27	2343	581 582	66	1337
Whitney, Charles W., New York, N. Y. Boiler-tube attachment.	525,932	Sept. 11	1065	242	68	1357
Whitney, E. P., <i>et al.</i> (See Oneill, Fred, assignor.)						
Whitney, Edwin R., Manchester, N. H. Secondary battery	516,253	Mar. 13	852	199	66	1627
Whitney Electrical Instrument Company. (See Hoyt, Adrian H., assignor.)						
Whitney, Eli, New Haven, Conn. Cotton-harvester.	526,209	Sept. 18	1545	362 363	68	1457
Whitney, George E., Boston, Mass. Bicycle-brake.	527,571	Oct. 16	1468	358	69	301
Whitney, James M. (See Maltby, Frank D., assignor.)						
Whitney, Nina F., Columbus, Ohio. Electric alarm-clock.	521,840	June 26	1927	462 463	67	1597
Whitney, Ruel W., assignor to Standard Sewing Machine Company, Cleveland, Ohio. Ruffing attachment for sewing machines.	516,352	Mar. 13	851	198	66	1627
Whitney, Washington. (See Fowler and Whitney.)						
Whitson, John A., New Franklin, Mo. Anchor for check-row planters.	526,424	Sept. 25	1947	465	68	1547
Whittemore, Charles, <i>et al.</i> (See Nason, Horace F., assignor.)						
Whittemore, James, Detroit, Mich. Bag-closure.	514,530	Feb. 13	923	234	66	1044
Whittemore, John Q. A., <i>et al.</i> (See Nason, Horace F., assignor.)						
Whittemore, Walter H. (See Maxon, Daniel M., assignor.)						
Whitten, John G., Genoa, N. Y. Poultry-feeder.	513,747	Jan. 30	3372	831	66	767
Whittier Machine Company. (See Clark, John H., assignor.)						
Whittingham, Charles, assignor to Cleveland Foundry Company, Cleveland, Ohio. Oil-burner.	528,314	Oct. 30	2778	670	69	571
Whittingham, Charles, assignor to Cleveland Foundry Company, Cleveland, Ohio. Gas-burner.	529,003	Nov. 13	878	207	69	826
Whittingham, George H., Baltimore, Md., assignor to Automatic Switch Company of Baltimore City, of Maryland. Automatic device for removing resistance in starting electric motors and replacing same.	518,906	Apr. 24	2542	629	67	510
Whittingham, George H., Baltimore, Md., assignor to Automatic Switch Company of Baltimore City, of Maryland. Automatic device for removing resistances in starting electric motors and replacing same.	520,280	May 22	2355	571 572	67	1018
Whittington, Joseph H., Buffalo, N. Y. Combination-lock.	524,750	Aug. 21	1341	328	68	937
Whittleton, Ellera J., <i>et al.</i> (See Barber, Arthur J., assignor.)						
Whittredge, Horace L., Admire, Kans. Combined disk cultivator and harrow.	527,519	Oct. 16	1388	337	69	286
Whitins, Charles, and J. W. Wilks, Chester, S. C. Saw-set.	519,366	May 8	790	193	67	704
Whitins, Charles, J. W. Wilks, and N. J. Whitins, Chester, S. C. Brack-and-bit gage.	521,997	June 26	2237	537	67	1655
Whitins, Nancy J. (See Whitins, Wilks, and Whitins.)						
Whitworth, Mal C. and W. E., Donelson, Tenn. Transplanter.	518,657	Apr. 24	2110	527 528	67	431
Whitworth, Thomas A., <i>et al.</i> (See Wilson, James N., assignor.)						
Whitworth, William E. (See Whitworth, Mal C. and W. E.)						
Wholey, Dennis, Lowell, Mass. Car-coupling.	513,961	Jan. 30	3696	910 911	66	833
Why Brothers & Co. (See Cartledge, William R., assignor.)						
Whybrew, Samuel, Richmond, Va. Envelope.	519,367	May 8	791	193	67	705
Whyte, George W. (See Deutsch, Jacob, assignor.)						
Whyte, Peter, Meridian, Miss. Apparatus for applying hose to couplings.	526,597	Sept. 25	2212	529	68	1595
Wiard, Harry, Syracuse, N. Y. Plow.	515,417	Feb. 27	2391	592 593	66	1346
Wiberg, Knut E., assignor of one-half to G. F. Berndes, Stockholm, Sweden. Adding apparatus.	517,319	Mar. 27	2659	624	66	2000
Wichmann, Carl J. C. (See Vautin, Claude T. J., assignor.)						
Wicht, Frank W., assignor to J. Wetter, Brooklyn, N. Y. Numbering-machine.	520,976	June 5	406	98	67	1271

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Wick, Henry, Jr., Youngstown, Ohio. Rail-straightening machine.....	523,496	July 24	2301	{ 579 580	{ 68	475
Wick, Henry, Jr., Youngstown, Ohio. Machine for straightening bars, rails, &c.....	523,497	July 24	2303	580	68	475
Wickes Brothers. (See Heyde, Edward, assignor.)						
Wickes Refrigerator Car Company. (See Brown and Hill, assignors.)						
Wickes, Thomas H., assignor to Pullman's Palace Car Company, Chicago, Ill. Street-car.	515,567	Feb. 27	2623	{ 651 652 653	{ 66	1390
Wickey, Andrew, Chicago, Ill. Baling-press	512,782	Jan. 16	1779	{ 422 423	{ 66	364
Wickey, Andrew, Chicago, Ill. Wire-holding reel	514,104	Feb. 6	202	46	66	893
Wickey, Andrew, Chicago, Ill. Baling-press	526,883	Oct. 2	354	87, 88	69	67
Wickey, Andrew, Chicago, Ill. Incubator	530,567	Dec. 11	888	218	69	1393
Wickham, Thomas R., Chicago, Ill. Wine-cooler	517,507	Apr. 3	153	33	67	31
Wickland, Charles F., Fremont, Ohio. Pencil sharpener.....	526,280	Sept. 18	1657	391	68	1479
Wickman, Magnus H., Northfield, Minn. Portable washstand	522,571	July 3	676	172	68	131
Widdicomb, Harry, Grand Rapids, Mich. Dressing-case	529,846	Nov. 27	2348	559	69	1124
Widdis, Albert L., Detroit, Mich. Elevated railway-car	528,407	Oct. 30	2933	{ 709 710	{ 69	598
Widner, Jacob, New Hartford, Conn. Hydraulic method of propelling vessels	525,881	Sept. 11	995	224	68	1345
Widrig, Charles, assignor to R. J. Farrar, S. J. Dalby, and J. T. Kelley, Mount Clemens, Mich. Lawn-sprinkler	525,478	Sept. 4	270	66	68	1201
Wiebach, Charles F., Newark, and A. A. Koellhoffer, Vailsburg, N. J. Igniting spring-gun.	527,916	Oct. 23	2060	494	69	426
Wiebeck, Carl, New York, N. Y. Fishing reel	515,184	Feb. 20	1981	494	66	1257
Wieber, Charles. (See Rauser, Wieber, and Sokoloff.)						
Wiehard, Friedrich, Cassel, Germany. Bicycle tire	511,827	Jan. 2	123	30	66	27
Wiederbeck, Edwin. (See Eframson, Carl, assignor.)						
Wiederer, Peter, Stapleton, N. Y. Combination-mirror	518,382	Apr. 17	1653	409	67	335
Wiederin, Mathäus, assignor of one-half to F. Maerky, Frastanz, Austria-Hungary. Machinery for inserting screws into leather or other material	519,215	May 1	500	{ 121 122	{ 67	634
Wiegand, Frank J., Warren, Mich. Chicken-brooder	527,822	Oct. 23	1881	451	69	393
Wiegand, S. Lloyd. (See Hutchinson and Wiegand.)						
Wiegand, S. Lloyd, Philadelphia, Pa. Air-heating furnace	529,090	Nov. 13	1027	247	69	853
Wieland, Charles F., St. Louis, Mo. Bolt-threading machine	520,175	May 32	2178	{ 530 531	{ 67	984
Wieland, Friedrich, Brooklyn, N. Y. Suspenders	518,383	Apr. 17	1655	409	67	335
Wieland, William E., Los Pinos, Colo. Gate	513,355	Jan. 23	2695	654	66	608
Wielandt, Martin, Berlin, Germany. Fire-extinguisher	530,672	Dec. 11	1068	259	69	1424
Wielar, Julius, <i>et al.</i> (See Lamplough, Frederick, assignor.)						
Wiemers, John H., New York, N. Y. Signaling device for automatic measuring machines	526,915	Oct. 2	416	103	69	78
Wiens, Adolph R., Milwaukee, Wis. Bottle-washer	529,823	Nov. 27	2311	550	69	1117
Wier, Marshall A., Kingston-upon-Thames, England. Type-writing machine	531,352	Dec. 25	2250	537	69	1671
Wiesenfeld, Robert S., Baltimore, Md. Manufacture of bottles	512,137	Jan. 2	677	162	66	129
Wiesner, Philip, <i>et al.</i> (See Ward, James A., assignor.)						
Wiethoff, Frank. (See Rein, Bernard, assignor.)						
Wigg, Thomas W., Delaware, Ohio. Rocking-chair	529,004	Nov. 13	879	207	69	826
Wigge, Henry, assignor of one-half to E. A. Smith, Hamilton, Ohio. Protecting ends of boiler-tubes, &c	517,372	Mar. 27	2747	646	66	2018
Wiggins, David. (See Fryer, Aaron, assignor.)						
Wiggins, Henry C., Minneapolis, Minn. Boiler-furnace grate	517,130	Mar. 27	2344	553	66	1940
Wiggins, William H., and T. H. Vanderhoef, Brooklyn, N. Y. Bowling-alley	525,172	Aug. 28	2105	512	68	1088
Wiggins, William R., San Bernardino, Cal. Clip for elevated ropeways	526,092	Sept. 18	1339	311	68	1419
Wigham, William, Adrian, Minn. Draft-equalizer	514,105	Feb. 6	203	47	66	893
Wightman, Daniel A., Allegheny, Pa. Starting appliance for compound engines	522,544	July 3	622	{ 158 159	{ 68	122
Wightman, Merle J. (See Lemp and Wightman.)						
Wighton, William. (See Lepper and Wighton.)						
Wigley, William P., Dallas, Ga. Automatic brake	525,173	Aug. 28	2106	512	68	1089
Wilber, George H., Carthage, Mo. Combined wire-stretcher and staple-puller	527,008	Oct. 2	550	134	69	104
Wilber, Samuel G., Lake Hill, N. Y. Car-coupling	515,185	Feb. 20	1982	494	66	1258
Wilber, Samuel G., Lake Hill, N. Y. Car-coupling	524,452	Aug. 14	851	209	68	834
Wilber, Samuel G., Lake Hill, N. Y. Car-brake	526,513	Sept. 25	2086	497	68	1573
Wilbur, Charles W., Rochester, N. Y. Vehicle	527,470	Oct. 16	1312	320	69	274
Wilbur, Parlee P., Zanesville, Ohio. Jug or jar	529,574	Nov. 20	1904	454	69	1032
Wilbur, William R., Cleveland, Ohio. Monkey-wrench	518,086	Apr. 10	1116	282	67	219
Wilbur, William R., assignor to Lamson & Sessions Company, Cleveland, Ohio. Machine for providing bolts with threaded or gimlet points	522,246	July 3	121	29, 30	68	23
Wilce, Thomas. (See Burnham, John P., assignor.)						
Wilcklow, William. (See Ross and Wilcklow.)						
Wilcox, Benajah, Gibson, N. Y. Vehicle-brake	529,767	Nov. 27	2208	{ 526 527	{ 69	1097
Wilcox, Cornelius, Sanbury, Ohio. Thill-coupling	528,351	Oct. 30	2829	684	69	580
Wilcox, Cornelius B., Deerfield, Ohio. Portable worm fence	521,627	June 19	1565	365	67	1512
Wilcox, Curtis N., Brooklyn, N. Y. Cover for milk-jars	521,841	June 26	1929	463	67	1598
Wilcox, Darius, Mechanicsburg, Pa. Fifth-wheel	523,252	July 17	1875	470	68	383
Wilcox, Frederick K., and C. E. Vail, Plainfield, N. J.; said Vail assignor to said Wilcox. Combined stove and heater	519,750	May 15	1442	348	67	834
Wilcox, Frederick W., Chicago, Ill. Paper pail	529,053	Nov. 13	961	{ 227 228	{ 69	841
Wilcox, H. W. (See Whisson, Elisha, assignor.)						
Wilcox, Henry. (See Wilcox, Theodore B. and H.)						
Wilcox, James H. (See Bradish, Nelson P., assignor.)						
Wilcox, James H. (See Bradish and Wilcox.)						
Wilcox, John F. (See Hemphill, Wilcox, and Fawell.)						
Wilcox Manufacturing Company. (See Richards, Marcus C., assignor.)						
Wilcox, Marion L., and J. A. Simpson, Mountain Grove, Mo. Velocipede	516,582	Mar. 13	1404	334	66	1730
Wilcox, Melvin L., assignor to National Cycle Manufacturing Company, Bay City, Mich. Chain adjustment for bicycles	519,058	May 1	189	45	67	573
Wilcox, Melvin L., assignor to National Cycle Manufacturing Company, Bay City, Mich. Bicycle	523,562	July 24	2405	602	68	495
Wilcox, Theodore B. and H., Newark, N. J. Electric-railway system	524,366	Aug. 14	702	171	68	806
Wilcox, Theodore B. and H., Newark, N. J. Electromagnetic contact-making device for electric-railway systems	524,367	Aug. 14	704	172	68	806
Wilcox, Theodore B. and H., Newark, N. J. Electric-railway system	524,368	Aug. 14	705	172	68	806

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Wilcoxon, M. H. (See Devore, Levi M., assignor.)						
Wild, Adam, Vienna, Austria-Hungary. Apparatus for rendering lard by hot air	524,012	Aug. 7	74	16	68	676
Wilde, Daniel, Washington, Iowa. Oscillating grain-meter	516,143	Mar. 6	653	152	66	1575
Wilder, Charles H. (See Prescott, Joseph D., assignor.)						
Wilder Duplex Electric Burglar Alarm and Messenger Company. (See Wilder, Edmund R., assignor.)						
Wilder, Edmund R., New York, N. Y., assignor to Wilder Duplex Electric Burglar Alarm and Messenger Company. Signaling apparatus	514,297	Feb. 6	560	140	66	958
Wilder, George L., Waukegan, Ill. Bracket for staging on shingle roofs	527,572	Oct. 16	1470	358	69	301
Wilder, Harlan P., Gardner, Mass. Oil or lamp stove	521,748	Nov. 19	1766	418	67	1551
Wilder, John K., Monroe, Mich. Feed-cutter	529,768	June 27	2211	527	69	1,979
Wilder, Norman B., Kansas City, Mo., assignor to Kansas City Hay Press Company, of Missouri. Hay-press	529,540	Nov. 20	1848	440	69	1021
Wilder, William H. (See Lannert, Jearons, and Wilder.)						
Wilder, William H., Northampton, Mass. Oven	521,689	June 19	1667	391	67	1532
Wilder, William H., E. A. Thissell, Northampton, Mass., J. A. Lannert and W. R. Jearons, Cleveland, Ohio. Vapor-burner	525,038	Aug. 28	1852	452	68	1046
Wilder, William H., E. A. Thissell, Northampton, Mass., J. A. Lannert and W. R. Jearons, Cleveland, Ohio. Vapor-burner	519,368	May 8	792	194	67	705
Wilder, William H., E. A. Thissell, Northampton, Mass., J. A. Lannert and W. R. Jearons, Cleveland, Ohio. Vapor-burner	520,383	May 22	2526	611	67	1051
Wildhack, William A., Indianapolis, Ind. Target-trap	525,640	Sept. 4	527	127 128	68	1349
Wildman, Frank B., Norristown, Pa. Dial-cap for knitting-machines	514,609	Feb. 13	1064	266	66	1071
Wildman, Robert, assignor of one-half to H. S. Johnson, Bay City, Mich. Boiler	528,352	Oct. 30	2330	624	69	580
Wildt, Henry W., Alexandria, Va. Watch-bow pliers	514,799	Feb. 13	1375	346	66	1131
Wildt, Henry W., Alexandria, Va. Spectacle-frame	520,347	May 22	2470	599	67	1039
Wile, Sol, and H. La Casse, Rochester, N. Y. Cork-feeder	520,550	May 29	2800	676 677	67	1116
Wile, Sol, and H. La Casse, Rochester, N. Y. Cork-compressor	520,625	May 29	2920	706 707	67	1139
Wiles, John H., Douglas county, Oreg. Plow	514,978	Feb. 20	1656	414	66	1198
Wiles, Richard S., Reading, England. Railway-signal	515,807	Mar. 6	128	30, 31	66	1477
Wiles, Richard S., Reading, England. Railway-signal	515,808	Mar. 6	130	31	66	1477
Wiley, Charles T., Greenfield, Mass., assignor to F. K. Caswell, Hartford, Conn. Hot-water heater	512,138	Jan. 2	678	162	66	130
Wiley, Edgar C., Bristol, Tenn. Electric cab-signal for railways	526,598	Sept. 25	2214	529	68	1596
Wiley, Edgar C., assignor to Wiley Railway Electric Signal Company, Bristol, Tenn. Electric signaling apparatus for railways	514,398	Feb. 6	704	178 179	66	985
Wiley Railway Electric Signal Company. (See Wiley, Edgar C., assignor.)						
Wiley & Russell Manufacturing Company. (See Farwell, Oscar F., assignor.)						
Wiley, William A., assignor of one-half to J. F. Harvey, Rochester, Minn. Lath or shingle hammer	517,911	Apr. 10	812	204 201 202	67	170
Wiley, William J., Danbury, Conn. Water-purifier for hat-sizing machines	527,187	Oct. 9	830	202 228 229	69	169
Wilford, William A., Todmorden, Canada. Brick-kiln	527,255	Oct. 9	942	228 229	69	190
Wilhelm, Charles, New York, and F. Ecanbert, Brooklyn, N. Y., assignors to said Ecanbert. Tool for ornamenting watchcases, &c	531,455	Dec. 25	2443	582	69	1703
Wilhide, Jacob T., Bruceville, Md. Breathing-tube	515,637	Feb. 27	2731	680	66	1412
Wilkes-Barré Molding Machine Company. (See Carr, Joseph J., assignor.)						
Wilkes, Gilbert, assignor to H. McMillan, Detroit, Mich. Commutator and connection for dynamos	512,853	Jan. 16	1906	450 451	66	388
Wilkin, Joseph A., Matamoras, Pa., assignor to himself, and J. J. Mills, Port Jervis, N. Y. Foot or hand power	521,490	June 19	1332	309 310	67	1471
Wilkins, Alexander G., assignor to Wilkins Shoe Button Fastener Company, Meadville, Pa. Button-setting machine	518,768	Apr. 24	2203	550 551	67	447
Wilkins, Bertha S., Los Angeles, Cal. Housekeeping-cabinet	521,628	June 19	1566	306	67	1512
Wilkins, Frank R. (See Walker and Wilkins.)						
Wilkins, Frank R. (See Walker, Wilkins, and Lones.)						
Wilkins, John N. (See Sendelbach and Wilkins.)						
Wilkins Shoe Button Fastener Company. (See Wilkins, Alexander G., assignor.)						
Wilkins, Theodore, New York, N. Y. Ladder attachment	530,374	Dec. 4	528	132	69	1311
Wilkins, William C., assignor of one-half to W. A. Fish, Utica, N. Y. Chime-ringing mechanism	516,559	Mar. 13	1368	325 326	66	1723
Wilkinson, Abraham, et al. (See Smith, John A., assignor.)						
Wilkinson, Algenon L. Sr., Richmond, Va. Germ-proof filter	515,700	Feb. 27	2843	708	66	1434
Wilkinson, Burwood M., Camden, N. J. Rotary engine	518,436	Apr. 17	1741	432	67	351
Wilkinson, Charles E., New Haven, Conn. Shuttle for sewing-machines	524,815	Aug. 21	1451	355	68	957
Wilkinson, Francis M., Birmingham, Ala. Window-shade fixture	519,979	May 15	1817	445	67	904
Wilkinson, Fred. (See Kay, Wilkinson, and Rushworth.)						
Wilkinson, Frederick C. (See Hadley, William, assignor.)						
Wilkinson, Hugh, Stockport, England. Vaporizer	513,663	Jan. 30	3238	795	66	742
Wilkinson, James. (See Pratt, Theodore P., assignor.)						
Wilkinson, Joseph W., assignor to Des Moines Fuel Saving Furnace Company, Des Moines, Iowa. Furnace	520,551	May 29	2805	677	67	1118
Wilkinson, Walter S. (See Upham, Richard D., assignor.)						
Wilkinson, Walter S., Baltimore, Md. Refining asphalt	512,348	Jan. 9	1019	219	66	204
Wilkinson, William H. (See Putnam, Waldo D., assignor.)						
Wilkinson, William J., Philadelphia, Pa. Glass-crimping machine	512,078	Jan. 2	536	139	66	112
Wilkinson, William R., Bullock county, Ga. Stump-extractor	521,352	June 12	1078	252 253	67	1407
Wilks, John W. (See Whitus and Wilks.)						
Wilks, John W. (See Whitus, Wilks, and Whitus.)						
Willans, Edith E. (See Willans, Peter W., assignor.)						
Willans, Peter W., deceased; W. D. Baldwin, Washington, D. C., administrator, assignor to E. E. Willans, London, England. Metallic packing	519,314	May 8	683	166	67	683
Willans & Robinson. (See Robinson, Mark H., assignor.)						
Willans & Robinson. (See Sankey, Matthew H. F. R., assignor.)						
Willard, Ephraim J., Geneva, N. Y. Sliding-door lock	512,139	Jan. 2	679	163	66	130
Willard, Gates, et al. (See Stillwell, Rickason, assignor.)						
Willard, George, Los Angeles, Cal. Side-hill plow	520,281	May 22	2357	572	67	1018
Willard, John W. (See Keith, Tirrell, and Willard.)						
Willard, John W. (See Tirrell and Willard.)						
Willard, Norman P., trustee. (See Fletcher, Wendell C., assignor.)						
Willard, Theodore A., Norwalk, Ohio. Automatic switch for storage-battery use	516,038	Mar. 6	501	115 116	66	1546

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Willard, Theodore A., Norwalk, Ohio. Device for regulating electricity generated by means of wind-power.	519,881	May 15	1661	404	67	876
Willcock, Stephen, assignor to T. Sargent, Toronto, Canada. Chiming-clock.	525,064	Aug. 28	1901	466	68	1054
Willcox, B. F. (See Willcox, Fenn, assignor.)						
Willcox, Charles H., New York, N. Y., and J. Range, Nottingham, England, assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Machine for clipping lace.	524,924	Aug. 21	1629	399 400 401 402	68	988
Willcox, Fenn, Newark, N. J., assignor of one-half to B. F. Willcox, New York, N. Y. Cutting-machine.	529,005	Nov. 13	880	208	69	826
Willcox & Gibbs Sewing Machine Company. (See Borton, Stockton, assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Gonyon, Ira H., assignor.)						
Willcox & Gibbs Sewing Machine Company. (See Willcox and Range, assignors.)						
Willits, Clinton H., Muscatine, Iowa. Chest-hanging.	512,420	Jan. 9	1149	279	66	229
Willett, Joseph M., <i>et al.</i> (See Robinson, William S., assignor.)						
Willett, William B., <i>et al.</i> (See Robinson, William S., assignor.)						
Willets George H., Middle Lancaster, Pa. Seed-planter.	512,079	Jan. 2	587	140	66	112
Willever, George O. (See Willever, Thomas D., assignor.)						
Willever, George O., <i>et al.</i> (See Young, George C., assignor.)						
Willever, Thomas D., Irvington, assignor of one-half to G. O. Willever, Phillipsburg, N. J. Railway-switch.	527,188	Oct. 9	831	202	69	170
Willey, William H., Santa Monica, Cal. Impact rotary steam-motor.	530,375	Dec. 4	529	132	69	1311
William Cramp & Sons Ship and Engine Building Company. (See McEvoy, Edward J., assignor.)						
William Deering & Company. (See Butterfield, William, assignor.)						
William Deering & Company. (See Williams, Farmer R., assignor.)						
William Mann Company. (See Deckert, Joseph O., assignor.)						
William P. Miller Company. (See Miller, William P., assignor.)						
William Sellers & Company. (See Bancroft, John S., assignor.)						
William Sellers & Company. (See Lewis, Wilfred, assignor.)						
William Sellers & Company. (See Sellers and Lewis, assignors.)						
William Wharton, Jr., & Company. (See Samuel, Edward, assignor.)						
Williams, Alexander S. (See Gillette, Webster, assignor.)						
Williams, Anthony, Rockport, Mass. Dumping-scoow.	523,922	July 31	3049	761	68	630
Williams, Benezette, Western Springs, Ill. Automatically-acting flush-tank.	519,369	May 8	793	194	67	705
Williams, Charles E. (See Edgar and Williams.)						
Williams, Charles E., Milford, Mass. Upper-folding machine.	513,852	Jan. 30	3534	869 870	66	801
Williams, Charles E., Columbus, Ohio. Sack sewing machine.	529,769	Nov. 27	2214	527	69	1098
Williams, Charles M., <i>et al.</i> , executors. (See Rice, David H.)						
Williams, Charles V. (See Williams, Robert S., assignor.)						
Williams, Dick B., Baltimore, Md. Folding support or stand for pictures.	528,704	Nov. 6	322	79	69	765
Williams, Ed. H. (See Rnmrille, Henry J., assignor.)						
Williams, Edward A. (See Pyle, Edwin I., assignor.)						
Williams, Edward C., Chicago, Ill. Press.	523,802	July 31	2837	705 706	68	590
Williams, Edward C., Chicago, Ill. Dovetailing-machine for preparing edges of parts of electrotpe or stereotype plate blocks.	531,241	Dec. 18	2051	489	69	1618
Williams, Electa, Pavilion, Mich. Fruit-jar.	512,349	Jan. 9	1022	250	66	205
Williams, Eli J. (See Williams, James F. and E. J.)						
Williams, Eli P. (See Simpson and Williams.)						
Williams, Eugene L., Kansas City, Mo., assignor of one-half to J. S. Williams, Jerseyville, Ill. Wire crimping and fastening pliers.	526,766	Oct. 2	162	38	69	31
Williams, Farmer R., Feloit, Wis., assignor to William Deering & Company, Chicago, Ill. Twine and making same.	520,249	May 22	2305	559	67	1008
Williams, Farmer R., Beloit, Wis., assignor to William Deering & Company, Chicago, Ill. Twine for binding grain.	523,059	July 17	1517	379	68	318
Williams, Farmer R., Beloit, Wis., assignor to William Deering & Company, Chicago, Ill. Twine for grain-binding harvesters.	523,060	July 17	1518	380	68	318
Williams, Farmer R., Beloit, Wis., assignor to William Deering & Company, Chicago, Ill. Making twine.	523,061	July 17	1519	380	68	318
Williams, Frank, <i>et al.</i> (See McGinnis, George R., assignor.)						
Williams, Frank A., Albrighton, England. Means for joining edges of sheet, strip, and plate metal.	530,314	Dec. 4	418	105	69	1291
Williams, Frank A., Holley, assignor of one-half to E. T. Lamb Batavia, N. Y. Wire-fabric machine.	517,508	Apr. 3	154	33, 34	67	32
Williams, Frederick W., assignor of three-fourths to T. E. Clarke, W. H. Truesdale, and J. Tonge, Minneapolis, Minn. Drilling-machine.	530,979	Dec. 18	1574	373	69	1531
Williams, Griffith W., Greensburg, Ind. Fence-wire ratchet.	514,108	Feb. 6	204	47	66	893
Williams, Gurdon H., Brighton, Ohio. Excavating and hoisting bucket.	528,579	Nov. 6	95	24	69	663
Williams, Harry, Richmond, and T. L. Fisher, Hawthorne, Victoria. Rotary steam-engine.	518,299	Apr. 17	1483	371	67	304
Williams, Henry B., assignor of one-half to L. A. Jeffreys, Rochester, N. Y. Journal-box.	526,336	Sept. 18	1737	417	68	1500
Williams, Hiram P., Somerdale, Ohio. Car-dump.	514,600	Feb. 13	1376	316	66	1131
Williams, Horace D., Poplar Bluff, Mo. Drying articles.	528,496	Oct. 30	3087	749	69	627
Williams, Horace G., Lykens, Pa. Stuffing-box.	517,509	Apr. 3	156	34	67	32
Williams, Hubbard D. B., Mansfield, Ohio. Store-service apparatus.	513,166	Jan. 23	2393	578	66	550
Williams, Hubbard D. B., Mansfield, Ohio. Store-service apparatus.	516,461	Mar. 13	1201	269	66	1692
Williams, Irvin, Nelson, Mo. Curtain-fixture.	518,977	May 1	64	16, 17	67	548
Williams, James, and G. A. Cummer; said Williams assignor to R. J. Cummer, Cleveland, Ohio. Hydrocarbon burner.	515,454	Feb. 27	2447	606 607	66	1356
Williams, James C., <i>et al.</i> (See Howell, Felix T., assignor.)						
Williams, James F. and E. J., assignors to B. H. Smothers and R. M. Shepherd, Kennedy, Ala. Combined plow and planter.	526,765	Oct. 2	161	38	69	31
Williams, James L. (See Moffitt and Williams.)						
Williams, John, and G. L. Morris, Landore, England. Apparatus for pickling iron plates.	512,784	Jan. 16	1781	423	66	364
Williams, John A., Altoona, Pa. Trolley.	514,801	Feb. 13	1377	346	66	1131
Williams, John A., Brooklyn, N. Y. Cash-register.	529,436	Nov. 20	1658	394 395	69	988
Williams, John A., Bath Beach, assignor to Adams & Sons Company, Brooklyn, N. Y. Cash-register.	512,929	Jan. 16	2035	422	66	411
Williams, John A., Bath Beach, assignor to Tutti-Frutti Automatic Vending Company, Brooklyn, N. Y. Vending apparatus.	530,148	Dec. 4	120	31	69	1231
Williams, John E., London, England, assignor to Werner & Pfleiderer, London, England, and Cannstadt, Germany. Tank combined with thermometer and gage.	522,927	July 10	1287	318	68	259

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Williams, John P., Wassaic, N. Y. Belt-fastener.....	524,432	Aug. 14	817	199	68	838
Williams, John P., assignor of one-half to P. E. Johnson, Atlantic, Iowa. Lock.....	515,390	Feb. 27	2347	5-3	66	1338
Williams, John H., Albion, N. Y. Fruit-jar.....	528,315	Oct. 30	2779	671	69	571
Williams, John M. (See James, John E., assignor.)						
Williams, John M., St. Louis, Mo. Smoke-consuming furnace.....	521,750	June 19	1784	423	67	1554
Williams, John N., Newark, N. J. Type-writing machine.....	523,028	July 17	1478	318	68	311
Williams, John N., Newark, N. J. Type-writing machine.....	528,578	Nov. 6	93	24	69	663
Williams, John P., South Pittsburg, Tenn. Fire-alarm.....	526,599	Sept. 25	2216	529	68	1596
Williams, John R., Kansas City, Mo. Wheeled scraper.....	515,982	Mar. 6	402	93	66	1527
Williams, John R., East Orange, N. J. Machine for making cigarettes.....	521,749	June 19	1768	{ 419 420 421 422 423 }	{ 67	1551
Williams, John S. (See Williams, Eugene L., assignor.)						
Williams, John T., Brooklyn, N. Y. Telephone-transmitter.....	530,315	Dec. 4	421	105	69	1291
Williams, Lewis, Belleville, Ill. Mail-bag fastener.....	516,254	Mar. 13	854	199	66	1638
Williams, Louis N. D., assignor of one-half to R. W. Scott, Philadelphia, Pa. Knitting-machine.....	521,066	June 5	562	{ 131 132 }	{ 67	1298
Williams, Martin C., et al. (See Daly, Charles A., assignor.)						
Williams, Mary A., Kansas City, Mo. Oven-regulator.....	523,253	July 17	1276	471	68	383
Williams, Milton F., St. Louis, Mo. Clay mixer and feeder.....	514,690	Feb. 13	1192	297	66	1096
Williams, Milton F., St. Louis, Mo. Clay-feeder.....	516,995	Mar. 20	2094	495	66	1875
Williams & Moore Manufacturing Company. (See Moore, Alfred M., assignor.)						
Williams, Morgan L., Johnstown, Pa. Machine for forming tuyeres and pipes.....	518,169	Apr. 10	1251	315	67	243
Williams, Nathan W., Santa Barbara, and E. B. Seely, San Francisco, Cal. Hose-coupling.....	525,522	Sept. 4	338	83	68	1214
Williams, Oliver P. (See Shumard, Eugene C., assignor.)						
Williams, Orion H., Chicago, Ill. assignor to Casper Automatic Patent Company, Limited, New Orleans, La. Coin-controlled turnstile-gate.....	529,006	Nov. 13	882	{ 209 210 }	{ 69	827
Williams, Orion H., Chicago, Ill. assignor to S. P. Wahnsley, New Orleans, La. Register-actuating attachment for turnstiles.....	529,007	Nov. 13	887	210	69	827
Williams, Otis, St. Johnsville, N. Y. Machine for crushing stone, ore, &c.....	530,295	Dec. 4	389	97	69	1986
Williams, Richard. (See Healey, Williams, and Longmeyer.)						
Williams, Robert S. (See McDonough and Williams.)						
Williams, Robert S., Merchantville, N. J., assignor to C. V. Williams, Philadelphia, Pa. Return postage-stamp.....	522,037	June 26	2298	551	67	1066
Williams, Samuel T., Muscatine, Iowa. Housing for rolling-mills.....	522,641	July 10	801	200	68	170
Williams, Seward W. (See Parker and Williams.)						
Williams, Silas J., Floyd, Tex. Cotton-press.....	518,709	Apr. 24	2207	551	67	448
Williams, Sylvester C., East Liverpool, Ohio. Barrel.....	512,783	Jan. 16	1780	423	66	364
Williams, Thomas, et al. (See Andrews, Charles B., assignor.)						
Williams, Thomas, Jr., London, England. Meat-cutter.....	512,528	Jan. 9	1334	322	66	263
Williams, Thomas B., et al. (See McGinnis, George R., assignor.)						
Williams, Thomas H., and N. R. Marvin, assignors to A. A. Griffing Iron Company, Jersey City, N. J. Valve.....	523,718	July 31	2692	667	68	563
Williams, Thomas P., Abilene, Tex. Wire-stretching spool-carrier.....	524,453	Aug. 14	852	209	68	534
Williams, Thomas S., Wilkes-Barre, Pa. Fence.....	515,329	Feb. 27	2346	582	66	1338
Williams, Webb W. M., assignor of one-half to A. H. Merchant, Omaha, Nebr. Construction of berths.....	525,673	Sept. 4	591	142	68	1260
Williams, White & Company. (See Cornbrooks, William A., assignor.)						
Williams, William E., Chicago, Ill. Machine for rolling car-wheel tires.....	527,038	Oct. 2	600	145	69	113
Williams, William H., Newark, N. J. Magnetic separating-machine.....	528,053	Oct. 23	2311	{ 557 558 }	{ 69	472
Williams, William H., Newark, N. J. Magnetic separator.....	528,054	Oct. 23	2313	558	69	472
Williams, William H., Newark, N. J. Magnetic separator.....	528,055	Oct. 23	2316	{ 558 559 }	{ 69	473
Williams, William M., Kenilworth, England. Multiple-copying apparatus.....	529,824	Nov. 27	2312	551	69	1117
Williams, William R., Philipsburg, Pa. Hinge-seating device.....	526,826	Oct. 2	256	62, 63	69	49
Williams, William S., Canton, Ohio. Kilm.....	531,242	Dec. 18	2053	490	69	1618
Williamson, Charles E., Grand Rapids, Mich. Windmill.....	517,674	Apr. 3	441	106	67	85
Williamson, Charles E., assignor of one-half to M. Beals, Grand Rapids, Mich. Power-transmitter for windmills.....	525,778	Sept. 11	791	182	68	1308
Williamson, David, assignor of one-half to H. B. Anderson, New York, N. Y. Filter.....	511,828	Jan. 2	124	30, 31	66	27
Williamson, David, New York, N. Y., assignor to W. McBride. Filter.....	514,531	Feb. 13	924	{ 234 235 }	{ 66	1045
Williamson, David C. and J. E., Stamford, Conn. Filter.....	524,155	Aug. 7	325	77	68	721
Williamson, David C. and J. E., Bridgeport, Conn. Filter.....	529,470	Nov. 20	1718	{ 409 410 }	{ 69	998
Williamson, Frank E., Chicago, Ill. Oil-can.....	518,539	Apr. 17	1911	473	67	380
Williamson, James E. (See Williamson, David C. and J. E.)						
Williamson, Jas. F. (See Hess, Christian J., assignor.)						
Williamson, Marshall D., assignor to Adams & Williamson, Indianapolis, Ind. Quarter-log holder for veneer-cutting machines.....	526,337	Sept. 18	1758	417	68	1500
Williamson, Richard H. (See Dyson and Williamson.)						
Williamson, William B., et al. (See Teate, Thomas A., assignor.)						
Williamson, William B., et al. (See Hubbard, Eher, assignor.)						
Williamson, William B., et al. (See Palmer, Maro V., assignor.)						
Willis, Edward J., Richmond, Va. Planimeter.....	529,008	Nov. 13	890	210	69	828
Willis, George H., Kingman, Kans. Lathe-dog.....	515,391	Feb. 27	2348	583	66	1339
Willis, Martin H. (See Clark and Willis.)						
Williston, Ellen M., Wellsborough, Pa. Apparatus for canning fruit.....	524,052	Aug. 7	135	31	68	687
Willits, Anna E. (See Willits, John G., assignor.)						
Willits, John G., assignor to A. E. Willits, Haddonfield, N. J. Moistener for stamps, envelopes, &c.....	521,250	June 12	884	209	67	1370
Willner, August, Germantown, Ohio. Transplanting-machine.....	520,838	June 5	153	34	67	1225
Willoughby, Henry, Kearney, N. J. Soldering composition.....	514,107	Feb. 6	205		66	893
Willringhaus, Gustav, Newark, N. J., assignor to G. Bernheim, New York, N. Y. Traveling-bag.....	517,181	Mar. 27	2440	{ 574 575 }	{ 66	1958
Willringhaus, Gustav, Newark, N. J., assignor to G. Bernheim, New York, N. Y. Traveling-bag.....	517,182	Mar. 27	2442	575	66	1958
Wills, Arthur J., Milwaukee, Wis. Indexed disk.....	520,100	May 22	2024	494	67	952
Wills, Henry H. (See Dalton and Wills.)						
Wills, Henry W., Philadelphia, Pa. Machine for washing and removing labels from bottles.....	525,377	Sept. 4	103	26	68	1169

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Wills, John C. (See Hodges and Wills.)						
Willson, George W., Easton, Pa. Air-brake	516,692	Mar. 20	1595	380	66	1782
Willson, Thomas B. (See Bayer, Frank, assignor.)						
Willson, Thomas H., Odessa, Mo. Torpedo signal mechanism	516,322	Mar. 13	950	{ 223 224 }	66	1647
Willyoung, Elmer G. (See Garver and Willyoung.)						
Willyoung, Elmer G., assignor to Queen & Company, Incorporated, Philadelphia, Pa. Apparatus for testing the resistance of conductors of electricity	514,580	Feb. 13	1004	254	66	1060
Willyoung, Elmer G., assignor to Queen & Company, Incorporated, Philadelphia, Pa. Electrical measuring-instrument	514,581	Feb. 13	1010	255	66	1060
Willyoung, Elmer G., Philadelphia, Pa., assignor to Queen & Company, of Pennsylvania. Electrical measuring-instrument	516,855	Mar. 20	1858	440	66	1831
Willyoung, Elmer G., Philadelphia, Pa., assignor to Queen & Company, of Pennsylvania. Galvanometer	517,253	Mar. 27	2550	598	66	1980
Willyoung, Elmer G., and M. M. Garver, assignors to Queen & Company, Incorporated, Philadelphia, Pa. Electrical measuring instrument	514,582	Feb. 13	1012	{ 255 256 }	66	1061
Wilmot, John F., assignor to A. H. Andrews & Company, Chicago, Ill. Curtain-desk	514,108	Feb. 6	206	47	66	893
Wilmot, John F., assignor to A. H. Andrews & Company, Chicago, Ill. Shoe for bent-wire table or chair legs	514,744	Feb. 13	1290	321	66	1114
Wilmot, John F., assignor to A. H. Andrews & Company, Chicago, Ill. Folding bed	516,290	Mar. 13	903	213	66	1638
Wilmot, John F., assignor to A. H. Andrews & Company, Chicago, Ill. Mirror-frame	517,131	Mar. 27	2347	553	66	1940
Wilms, Hermann, Cologne, Germany. Steam-boiler furnace	523,824	July 31	2873	{ 713 714 }	68	597
Wilson, Adoniram J., Port Chester, assignor to Hall Signal Company, New York, N. Y. Electric-alarm system for railway-crossings	515,638	Feb. 27	2732	{ 680 681 }	66	1412
Wilson, Adoniram J., Port Chester, N. Y., assignor to Hall Signal Company, of Maine. Electric railway-signal	528,245	Oct. 30	2657	640	69	519
Wilson, Adoniram J., Port Chester, N. Y., assignor to Hall Signal Company, of Maine. Electric railway-signal	528,246	Oct. 30	2659	641	69	550
Wilson, Adoniram J., Port Chester, N. Y., assignor to Hall Signal Company, of Maine. Electric block-signaling system	531,284	Dec. 18	2129	511	69	1632
Wilson, Alexander. (See Seaman, Wilson, and Jones.)						
Wilson, Amasa H., Chicago, Ill. Spring-hinge	518,639	Apr. 24	2078	518	67	425
Wilson, Augusta B. (See Wilson, Michael H., assignor.)						
Wilson, Benjamin P., et al. (See Shank, Charles A., assignor.)						
Wilson, Charles A. (See Paravicini, Joseph, assignor.)						
Wilson, Charles F., assignor of one-half to G. F. Malby, Brooklyn, N. Y. Railway-switch	519,464	May 8	946	229	67	733
Wilson, Christopher W., Kirkby-Lonsdale, England. Cash-recorder	516,039	Mar. 6	503	{ 116 117 }	66	1546
Wilson & Company. (See Whiting, Phineas S., assignor.)						
Wilson, D. B., et al. (See Bright, William H., assignor.)						
Wilson, David H., Chicago, Ill. Battery	514,979	Feb. 20	1657	415	66	1198
Wilson, David H., Chicago, Ill. Switchboard system	514,980	Feb. 20	1657	415	66	1198
Wilson, David H., Chicago, Ill. Circuit making and breaking device	514,981	Feb. 20	1659	415	66	1199
Wilson, David H., Chicago, Ill. Electric cattle-guard	520,510	May 29	2735	{ 662 663 }	67	1104
Wilson, David H., Chicago, Ill. Dynamo-electric machine	526,170	Sept. 18	1473	344	68	1443
Wilson, Edgar J. (See O'Brien and Wilson.)						
Wilson, Edwin T., Ashmore, Ill. Rail-brake	512,140	Jan. 2	680	163	66	130
Wilson, F. Cortez, Chicago, Ill. Valve mechanism for liquid-receptacles	523,094	July 17	1570	394	68	328
Wilson, George, et al. (See Davis, Sylvanus E., assignor.)						
Wilson, George S., Tecumseh, Mich. Dust-collector	516,171	Mar. 6	703	{ 165 166 }	66	1584
Wilson, Harold, Detroit, Mich., assignor to Meyrowitz Manufacturing Company, New York, N. Y. Thermocauter	517,180	Mar. 27	2439	574	66	1958
Wilson, Harry L., Erie, Pa. Steam-boiler	526,600	Sept. 25	2217	{ 529 530 }	68	1397
Wilson, Horace, Indian Diggings, Cal. Coffee-percolator	530,149	Dec. 4	123	31	69	1237
Wilson, Houghton W., Kingston, Canada. Stovepipe-damper	527,573	Oct. 16	1471	358	69	301
Wilson, J. D., et al. (See Pancoast, Richard M., assignor.)						
Wilson, James, Columbia, Mo. Self-chalking chalk-line	523,189	July 17	1762	442	68	363
Wilson, James, assignor of one-half to C. A. Mullen, Jackson, Ohio. Fluid-pressure regulator	530,872	Dec. 11	1382	329	69	1482
Wilson, James D., San Diego, Cal. Pipe-wrench	527,917	Oct. 23	2062	494	69	427
Wilson, James G., New York, N. Y. Venetian blind	529,770	Nov. 27	2216	528	69	1098
Wilson, James G., New York, N. Y. Rolling shutter, &c.	529,771	Nov. 27	2217	528	69	1098
Wilson, James G., New York, N. Y. Flooring	529,772	Nov. 27	2217	528	69	1098
Wilson, James G., New York, N. Y. Method of and implement for forming grooves	531,243	Dec. 18	2055	{ 490 491 }	69	1618
Wilson, James L., Mountain Peak, Tex. Door-spring	520,282	May 22	2359	572	67	1018
Wilson, James L., Mountain Peak, Tex. Gate-latch	531,353	Dec. 25	2252	537	69	1671
Wilson, James N., Minneapolis, Minn. Sieve	516,673	Mar. 20	1566	372	66	1777
Wilson, James N., Minneapolis, Minn. Planter	518,979	May 1	68	{ 17 18 19 }	67	548
Wilson, James N., assignor of one-half to A. H. Hall, Minneapolis, Minn. Clutch	512,643	Jan. 9	1519	365	66	299
Wilson, James N., assignor of one-half to G. W. Frey, T. A. Whitworth, and R. E. Dorton, Minneapolis, Minn. Railway-rail joint	513,695	Jan. 30	3288	810	66	753
Wilson, James W., Chicago, Ill. Fence-sign	515,945	Mar. 6	332	79	66	1515
Wilson, Jeremiah M. (See Wilson, Robert B., assignor.)						
Wilson, John A., and R. Hutchinson, Nottingham, England. Straight-knitting machine	516,144	Mar. 6	656	{ 153 154 155 }	66	1576
Wilson, John C., Boston, Mass. Time-stamp	527,918	Oct. 23	2063	{ 494 495 }	69	427
Wilson, John H., assignor of two-thirds to C. E. and M. I. Zeigler, Carlisle, Pa. Cooking-vessel	527,471	Oct. 16	1314	321	69	275
Wilson, John J., et al. (See Sherman, Willis D., assignor.)						
Wilson, John P., Hamburg, N. J. Peach-screen	523,498	July 24	2305	{ 580 581 }	68	476
Wilson, John V., and C. R. Wores, Tucson, Ariz. Ter. Medical compound	515,455	Feb. 27	2449	{ 581 582 }	66	1357
Wilson, Martin M., Llandudno, England. Parlor-game apparatus	512,421	Jan. 9	1150	279	66	229
Wilson, Martin M., Llandudno, England. Game apparatus	519,078	May 1	239	56	67	561
Wilson, Michael H., assignor, by mesne assignments, to Wilson Revolving Pole Sign Company, New York, N. Y. Revolving-pole sign	531,402	Dec. 25	2337	537	69	1688

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Wilson, Milford J., Painsville, Ohio. Saw-filing device.....	531,456	Dec. 25	2445	562	69	1709
Wilson, Oliver, Philadelphia, Pa., assignor of one-third to A. F. Kent, Jamestown, N. Y. Knitting-machine.....	528,838	Nov. 6	583	138	69	752
Wilson, Perry E., and P. M. Hesch, Jr., Titusville, Pa.; said Hesch assignor to said Wilson. Cutting-machine.....	518,978	May 1	67	17	67	548
Wilson Revolving Pole Sign Company. (See Wilson, Michael H., assignor.)						
Wilson, Robert B., Cincinnati, Ohio, assignor of one-half to J. M. Wilson, Washington, D. C. Electric-railway conduit.....	526,767	Oct. 2	164	38	69	31
Wilson, Robert M., Scranton, Pa. Weather-strip.....	525,641	Sept. 4	531	128	68	1250
Wilson, Robert M., Rome, N. Y. Bath-tub.....	530,568	Dec. 11	888	219	69	1393
Wilson, Sarah E., <i>et al.</i> (See Landin and Walker, assignors.)						
Wilson, Stephen, Philadelphia, Pa., assignor to Mechanical Amusement Company, Woodbury, N. J. Mechanically-propelled figure.....	526,984	Oct. 2	514	126	69	96
Wilson, Walter H., assignor to R. H. Smith, New York, N. Y. Railway-tie plate.....	522,667	July 10	1179	294	68	239
Wilson, Walter H., assignor to R. H. Smith, New York, N. Y. Railway-tie plate.....	526,601	Sept. 25	2219	530	68	1597
Wilson, Wellington, Bay City, Mich. Stovepipe attachment.....	528,408	Oct. 30	2936	710	69	599
Wilson, William A., Niotaze, Kans. Attachment for self-binding harvesters.....	530,376	Dec. 4	531	132	69	1312
Wilson, William F., Norristown, Pa. Street-sweeper.....	512,854	Jan. 16	1909	451	66	358
Wilson, William F., Cookstown, Pa. Gate-latch.....	531,491	Dec. 25	2503	596	69	1719
Wilson, William J., <i>et al.</i> (See Johnson, George P., assignor.)						
Wilson, William S., assignor of one-half to D. S. Henderson, Brantford, Canada. Manufacturing rivets, studs, &c.....	522,247	July 3	127	30	68	24
Wilson, William T., assignor of one-half to J. S. O'Shea, Buffalo, N. Y. Car-coupling.....	521,968	June 26	2172	521	67	1644
Wilt, Edwin F., Elgin, assignor to J. Rineck, Jr., Hampshire, Ill. Harness.....	527,189	Oct. 9	832	202	69	170
Wimbrow, Peter A. and R. S., and H. P. Dale, Whaleyville, Md. Berry-crate.....	517,713	Apr. 3	506	121	67	98
Wimbrow, Robert S. (See Wimbrow and Dale.)						
Wimbush, Thomas H., St. Louis, Mo. Adjustable portable scaffold.....	524,270	Aug. 7	505	117 118	68	753
Winand, Paul A. N., assignor to Mess, Schleicher, Schumm & Co., Philadelphia, Pa. Electrical igniter for gas or hydrocarbon engines.....	525,828	Sept. 11	896	199	68	1326
Winand, Paul A. N., assignor to Mess, Schleicher, Schumm & Co., Philadelphia, Pa. Traction-engine.....	525,829	Sept. 11	898	199	68	1326
Winans, Henry E., Newark, N. J. Shot-spreader.....	519,559	May 8	1128	271	67	764
Winch, Arthur C., Saxonville, Mass. Device for feeding and watering live stock.....	519,935	May 15	1741	426 427	67	890
Winchester, Clement H., assignor to B. F. F. Brodt, Hamilton, Ohio. Can-opener.....	515,983	Mar. 6	406	94	66	1528
Winchester, Edward S., Boston, Mass. Latch.....	529,575	Nov. 20	1905	454	68	1032
Winchester, Henry H. (See Blake, Harry, assignor.)						
Winchester Repeating Arms Company. (See Browning, John M., assignor.)						
Winchester Repeating Arms Company. (See Mason, William, assignor.)						
Winchester Repeating Arms Company. (See Smith, William G., assignor.)						
Winckhofer, Charles, Newark, N. J. Automatic door-closing device.....	525,830	Sept. 11	899	200	68	1327
Windecker, Samuel, Riverside, Ill. Check-perforator.....	524,454	Aug. 14	853	209 210	68	835
Winder, Marcellus D., and D. A. Carpenter, Fort Collins, Colo. Apparatus for controlling-head-gates.....	514,399	Feb. 6	707	179	66	986
Winder, Will H. (See Folger and Winder.)						
Windle, John E., North Grafton, Mass. Cloth-folding machine.....	523,499	July 24	2306	581	68	476
Windmüller, Carl A., Chemnitz, Germany. Construction of lathes.....	513,356	Jan. 23	2698	654 655	66	609
Windram, Harold W. (See Brown, Charles N., assignor.)						
Windsor, Frederick E., Warren, Pa. Bag-lock.....	519,598	May 8	1197	288 289	67	777
Windus, Werner, Baltimore, Md. Fence.....	514,250	Feb. 6	480	117	66	943
Windus, William. (See Worsley, Windus, and Bracey.)						
Wine, J. H., <i>et al.</i> (See Humbert, James H., assignor.)						
Winegarden, Arey V., Anthony, Kans. Windmill.....	518,300	Apr. 17	1485	371 372	67	394
Wineland, Frank B. (See Fall, Wineland, and Richards.)						
Winfield Manufacturing Company. (See Winfield, William C., assignor.)						
Winfield Manufacturing Company. (See Winfield and McNutt, assignors.)						
Winfield, William C. (See Ward and Winfield.)						
Winfield, William C., assignor to Winfield Manufacturing Company, Warren, Ohio. Oil-can.....	520,871	June 5	212	47	67	1236
Winfield, William C., and J. F. McNutt, assignors to Winfield Manufacturing Company, Warren, Ohio. Machine for forming corrugated elbow-pipes.....	520,870	June 5	209	47	67	1236
Wingard, Edwin V., Philadelphia, Pa. Chimney.....	528,453	Oct. 30	3011	727	69	612
Winge, Alf L., assignor of one-half to J. S. Truscott, Miles City, Mont. Wrench.....	527,643	Oct. 16	1589	384	69	323
Wingo, Richard T., Mulhausen, Germany. Friction-clutch.....	526,171	Sept. 18	1474	344 345	68	1444
Winkelmann, Herman R. (See Sattelkau and Winkelmann.)						
Winkfield, Fedro G., Quincy, Mass. Buckle.....	519,518	May 8	1066	256	67	753
Winkler, Charles F., Kingston, N. Y. Electric-car truck.....	514,109	Feb. 6	208	47, 48	66	893
Winkley, Frank D., Madison, Wis. Oil-can.....	523,254	July 17	1278	472	68	384
Winkship Machine Company. (See Garraux, Frederick, assignor.)						
Winslow, A. P. (See Fisher, Thomas N., assignor.)						
Winslow, George H., Pittsburg, Pa. Pin for insulators.....	517,634	Apr. 3	361	85, 86	67	71
Winslow, George H., Pittsburg, Pa. Binder for leaves.....	517,635	Apr. 3	363	86	67	71
Winslow, George H., Pittsburg, Pa. Insulator.....	524,659	Aug. 14	1183	291	68	896
Winslow, George H., Pittsburg, Pa. Binder for leaves.....	529,091	Nov. 13	1029	248	69	853
Winslow, Marlon H., assignor of two-thirds to J. C. Licht and J. J. Keeney, Terre Haute, Ind. Platform-scale.....	524,271	Aug. 7	507	118	68	753
Winslow, Orlando R., and H. King, Marshfield, Mo. Doubletree.....	531,581	Dec. 25	2648	634	69	1748
Winslow, Sidney W. (See Rogers, Andrew W., assignor.)						
Winslow, Sidney W., Beverly, Mass., assignor to S. W. Winslow, trustee. Buffing-machine.....	526,137	Sept. 18	1416	330	68	1434
Winsor, Joseph S., assignor of one-half to O. Bradley, Worcester, Mass. Apparatus for locking and turning car-seats.....	519,370	May 8	794	194 195	67	705
Winston Cigarette Machine Company. (See Briggs, William C., assignor.)						
Wint, Thomas L., Kalb, assignor of one-half to S. J. T. Young, Camden, S. C. Weather-board gage.....	520,511	May 29	2738	663	67	1104
Winter, Alexander W., assignor to J. A. Winter, W. H. Lee, and F. C. Laird, Chicago, Ill. Compound edible fat.....	519,980	May 15	1818	67	904

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Winter, John F., assignor of one-half to J. F. Morrison, Baltimore, Md. Governor for electric motors	517,714	Apr. 3	507	122	67	98
Winter, Joseph S., Montgomery, Ala. Constructing roads, streets, &c., and block therefor	511,870	Jan. 2	199	50	66	42
Winter, Josephine A., <i>et al.</i> (See Winter, Alexander W., assignor.)						
Winter, Philipp, Brooklyn, N. Y. Combined ice-cream mold and cutter	512,080	Jan. 2	588	140	66	112
Winterflood, Joseph, London, England. Automatic gas-valve mechanism for water-heaters	512,141	Jan. 2	681	163	66	130
Winterhalder, Eduard A., Kappel, Germany. Railway signaling apparatus	513,376	Jan. 23	2728	{ 662 663 }	{ 66 66 }	614
Winterhalder, Louis. (See Noyes and Winterhalder.)						
Winterhalder, Louis, Milford, Conn., assignor to National Electrical Manufacturing Company, Milford, Conn., and Jersey City, N. J. Electric switch	526,172	Sept. 18	1476	345	68	1444
Winternight, Henry A., Philadelphia, Pa. Car-coupling	526,550	Sept. 25	2140	513	68	1582
Winters, Andrew L. (See Carder, George H., assignor.)						
Winters, Harry T., Wheeling, W. Va. Mold-cooler	523,062	July 17	1520	380	68	319
Winters, John W., assignor of five-eighths to A. J. Kos, J. Webber, E. R. Greenwood, D. H. Kent, and J. Gelina, St. Paul, Minn. Marine-engine governor	517,087	Mar. 27	2278	537	66	1927
Winters, John W., assignor of five-sixths to A. J. Kos, J. Webber, E. R. Greenwood, D. H. Kent, and J. Gelina, St. Paul, Minn. Car-brake adjuster	517,088	Mar. 27	2279	{ 537 538 }	{ 66 66 }	1927
Winterton, James, assignor to J. G. Accles, Birmingham, England. Platen printing-machine	513,357	Jan. 23	2699	{ 655 656 }	{ 66 66 }	609
Wire Grip Fastening Company. (See Ambler, George A., assignor.)						
Wires, Edward T., assignor of one-half to A. Chaney, Terre Haute, Ind. Rap and draw pin for foundry use	514,400	Feb. 6	709	179	66	987
Wirsching, Alovs. (See Wirsching, Emil A., assignor.)						
Wirsching, Emil A., assignor of one-half to A. Wirsching, New York, N. Y. Printing-telegraph	512,422	Jan. 9	1151	{ 279 280 }	{ 66 66 }	229
Wirsching, Philipp, Salem, Ohio. Pipe-organ	518,980	May 1	72	19	67	549
Wirt, Herbert C., assignor to General Electric Company, Boston, Mass. Ceiling-cleat	518,301	Apr. 17	1488	372	67	305
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen	526,425	Sept. 25	1948	465	68	1547
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen	526,426	Sept. 25	1950	465	68	1548
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen	526,427	Sept. 25	1952	465	68	1548
Wirt, Paul E., Bloomsburg, Pa. Fountain-pen	526,428	Sept. 25	1954	466	68	1548
Wirt, Zebulon, Monticello, Ind. Umbrella	527,823	Oct. 23	1882	{ 451 452 }	{ 69 69 }	394
Wisconsin Electric Light and Power Company. (See Müller, Charles L. F., assignor.)						
Wisdom, Edward G. (See Wisdom, Francis B. and E. G.)						
Wisdom, Francis B. and E. G., Chicago, Ill. Flue	527,256	Oct. 9	945	229	69	190
Wise, Benjamin F., assignor of two-thirds to S. Horner, T. J. Ward, and W. H. Hartley, St. Louis, Mo. Garbage-receptacle	513,628	Jan. 30	3174	779	66	732
Wise, Jacob, assignor to M. E. Wise, Mogadore, Ohio. Lamp-supporter for vehicles	526,798	Oct. 2	212	51	69	40
Wise, Martha E. (See Wise, Jacob, assignor.)						
Wiser, Frank W., Cleveland, Ohio. Lifting-jack	525,247	Aug. 28	2207	537	68	1107
Wisher, William H., Bird City, Kans. Drill-rod grab	526,358	Sept. 18	1803	427	68	1508
Wisner, John, Bluffton, Ind. Laundry-frame	515,701	Feb. 27	2845	708	66	1434
Wist, J. W., <i>et al.</i> (See Loughmiller, Benjamin F., assignor.)						
Wister, Harry H., Colorado City, Colo. Electrical signal	527,257	Oct. 9	947	{ 230 231 }	{ 69 69 }	191
Witbeck, L. G., <i>et al.</i> (See Erickson, Ole S., assignor.)						
Witell, Renben, Brookside, New Zealand. Milking-machine	529,576	Nov. 20	1908	454	69	1033
Witherbee, Thomas F., Port Henry, N. Y. Charging apparatus for filling blast-furnaces	518,769	Apr. 24	2315	575	67	467
Witherell, George E., assignor to Hartford Machine Screw Company, Hartford, Conn. Turret-tool machine	511,829	Jan. 2	127	31, 32	66	27
Witherell, George E., assignor to Hartford Machine Screw Company, Hartford, Conn. Screw-head slotter	511,830	Jan. 2	128	32, 33	66	27
Withey, Ervin E., assignor to Duguid Saddlery Company, Syracuse, N. Y. Bridle-bit	523,612	July 24	2485	625	68	510
Witfoft, Frederick G., <i>et al.</i> (See Bowley, George J., assignor.)						
Witrow, James E., Los Angeles, Cal. Word-register for type-writers	524,496	Aug. 14	914	226	68	846
Witschold, Arthur, New York, N. Y. Gravity-railway	525,882	Sept. 11	997	224	68	1345
Witt, George E., Fresno, Cal. Track or carrier for doors, &c.	520,199	May 22	2221	540	67	992
Witte, George C. (See Schneider, Philipp, assignor.)						
Witte, Joseph, Jr., New Brunswick, N. J. Paper box	525,378	Sept. 4	104	26	68	1169
Witte, Theodore, Chilliwhack, Canada. Puttying-tool	512,930	Jan. 16	2037	482	66	411
Witte, William H., Long Island City, N. Y. Means for the propulsion of vessels	516,419	Mar. 13	1124	{ 267 268 }	{ 66 66 }	1678
Witteammann, Rudolph A., New York, N. Y. Bottle-closing device	519,827	May 15	1570	384	67	859
Witter, Ezra E., Milford Centre, Ohio. Corn-harvester	518,516	Apr. 17	1874	464	67	374
Witter, Ezra E., Milford Centre, Ohio. Corn-harvester	526,602	Sept. 25	2220	{ 530 531 532 }	{ 68 68 68 }	1597
Wittich, George, assignor of one-third to A. F. Kauffman, Freyburg, Tex. Combined cotton and corn planter	520,872	June 5	213	48	67	1236
Wittke, Robert. (See Ariens, Henry, assignor.)						
Witkowski, Friedrich W., Omaha, Nebr. Automatic railway-switch	524,187	Aug. 7	370	88	68	729
Wittmann, Will C., Lincoln, Nebr. Bridle-bit	522,572	July 3	677	172	68	132
Witz, Konrad, Hoboken, assignor to himself and F. Grans, Jersey City, N. J. Manufacture of plastic articles	520,283	May 22	2360	573	67	1019
Witzel, Joseph R., Philadelphia, Pa. Weighing-scale	530,980	Dec. 18	1576	373	69	1532
Wm. Knabe & Co. Manufacturing Company. (See Smith, William T., assignor.)						
Wm. Schollhorn Company. (See Bernard, William A., assignor.)						
Wnuck, Charles E., Cincinnati, Ohio. Wheeled vehicle	529,225	Nov. 13	1259	303	69	894
Wock, John, Canton, Ohio. Lift-pump	518,981	May 1	75	19	67	549
Woehs, Anton, Hanover, Germany. Billiard-table	517,715	Apr. 3	508	{ 122 123 }	{ 67 67 }	98
Woelfel, George P., Spring Garden, assignor to J. Bindley, Pittsburg, Pa. Pipe-wrench. (Reissue)	11,459	Dec. 18	2142	513	69	1635
Wogan, Michael, U. S. Navy. Ball-bearing	521,399	June 12	1147	271	67	1421
Woglom, Gilbert T., New York, N. Y. Ear-ring	523,197	Oct. 30	2570	622	69	533
Wohl, Sarah, <i>et al.</i> (See Engel, Isidor, assignor.)						
Wohnlich, Louis J., Detroit, Mich., assignor to J. R. Bate, Cincinnati, Ohio. Machine for cutting excelsior	513,853	Jan. 30	3536	871	66	801
Wolcott, Clayton, Hartford, Conn. Sash-cord guide	515,809	Mar. 6	131	31, 32	66	1478
Wolcott, Clayton, Hartford, Conn. Sash-cord guide	514,982	Feb. 20	1660	416	66	1199

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Wolcott, William V., and H. O'Hara, St. Louis, Mo., assignors to St. Louis Car Coupler Company, of Illinois. Car-coupling.....	519,216	May 1	505	122	67	635
Wolf, Carl, Zwickau, Germany. Miner's safety-lamp.....	530,217	Dec. 4	249	60	69	1261
Wolf, Charles. (See Hadam and Wolf.)						
Wolf & Co., Aug. (See Bending, William P., assignor.)						
Wolf Electrical Promoting Company. (See Bloch, Jacob, assignor.)						
Wolf Electrical Promoting Company. (See Wolf, John, Jr., assignor.)						
Wolf, Elmer E., assignor of one-half to J. M. Good, Springfield, Ohio. Variable-speed gear.	525,479	Sept. 4	271	66, 67	68	1201
Wolf, Frank, <i>et al.</i> (See Strakosch, Max, assignor.)						
Wolf, Frederick C., and G. Daniels, Youngstown, Ohio. Journal-bearing lubricator.....	512,423	Jan. 9	1156	250	66	930
Wolf, Frederick, Cleveland, Ohio. Milk-can.....	516,255	Mar. 13	855	199	66	1628
Wolf, Henry L. R., Dayton, Ohio. Bucket-fastener.....	522,316	Oct. 30	2780	671	69	571
Wolf, Isaac. (See Lesser, Max, assignor.)						
Wolf, John, Jr., assignor to Wolf Electrical Promoting Company, Cincinnati, Ohio. Take-up for conductors of cloth-cutting machines.....	527,354	Oct. 9	1111	271	69	221
Wolf, John, Jr., assignor to Wolf Electrical Promoting Company, Cincinnati, Ohio. Cloth-notching device.....	528,216	Oct. 30	2606	628	69	540
Wolf, John, Jr., assignor to Wolf Electrical Promoting Company, Cincinnati, Ohio. Cloth-cutting machine.....	528,217	Oct. 30	2607	628	69	540
Wolf, Josef, Newark, N. J. Door-check.....	527,919	Oct. 23	2065	495	69	427
Wolf, Otto C., Philadelphia, Pa. Driving-gearing for heavy machinery.....	526,221	Sept. 18	1658	391	68	1479
Wolf, Sayer & Heller. (See Kallsen, Frederick, assignor.)						
Wolf, Sayer & Heller. (See Lusche, Frederick, assignor.)						
Wolfe, Burt J., assignor of one-half to J. R. Reed, Canton, Ohio. Window-screen.....	522,642	July 10	803	200	68	171
Wolfe, Frank L., Medford, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Safety water-gage.....	523,391	July 24	2101	528	68	442
Wolfe, Frank L., Medford, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Register for counting the strokes of pistons, &c.....	526,884	Oct. 2	356	88	69	67
Wolfe, Frank L., Medford, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Mechanical movement for engine-registers.....	526,885	Oct. 2	357	89	69	67
Wolfe, Gordon G., assignor to Fuller & Warren Company, Troy, N. Y. Grate and fire-chamber for stoves or ranges.....	525,831	Sept. 11	900	200	68	1327
Wolfe, Wilsie F., Newton, Mass. Ventilator.....	521,561	June 19	1445	336	67	1491
Wolfferts, Carl F., Barmen, Rittershausen, Germany. Thread-controlling device for lace-making machines.....	530,873	Dec. 11	1353	329	69	1482
Wolfferts, Heinrich, Ohligs, near Solingen, Germany. Razor.....	512,596	Jan. 9	1437	346	66	283
Wolff, Adrian, and T. R. Hyde, Jr., Waterbury, Conn., assignors to Scovill Manufacturing Company, of Connecticut. Air-pump.....	518,302	Apr. 17	1489	372	67	305
Wolff, John F., assignor to L. Wolf Manufacturing Company, Chicago, Ill. Water-closet.	526,065	Sept. 18	1290	296	68	1411
Wolff, Joseph, Cologne-on-the-Rhine, Germany. Corset-stiffener.....	517,132	Mar. 27	2349	554	66	1940
Wolff, William, Cincinnati, Ohio. Lathe-chuck.....	528,705	Nov. 6	323	79	69	705
Wolffreys, Charles J. (See Brooks and Wolffreys.)						
Wolgenuth, James B., Pierre, and G. S. Engle, Aberdeen, S. D. Collar-button clasp.....	525,039	Aug. 28	1855	453	68	1047
Wolhaupter, Benjamin, Oak Park, Ill. Surface cattle-guard.....	516,256	Mar. 13	857	200	66	1628
Wolhaupter, Benjamin, Oak Park, Ill. Brake mechanism for cars.....	516,257	Mar. 13	858	200	66	1629
Wolhaupter, Benjamin, Morgan Park, Ill. Railway tie-plate.....	530,738	Dec. 11	1174	286	69	1443
Wolhaupter, David P., Washington, D. C. Type-writing-machine key-cap.....	530,611	Dec. 11	957	235	69	1406
Wollard, Isaac B., assignor to W. B. Lake, San Francisco, Cal. Fruit-carrier.....	524,625	Aug. 14	1132	278	68	836
Wolfe, Hartley C., Bethlehem, Pa. Means for making metallic bodies.....	522,093	June 26	2382	573	67	1653
Wollensak, John F., Chicago, Ill. House letter-box.....	512,350	Jan. 9	1023	250	66	205
Woller, Frank E. (See Kleinstenber, Oscar D. and M. A., assignors.)						
Wollmer, Hugo E. (See Green, Squire, assignor.)						
Wollmer, Hugo E. (See Koehler, Jacob and C., assignors.)						
Wolstencroft, James, <i>et al.</i> (See Carlinet, John G., assignor.)						
Wolters, Henry J., York, Pa., assignor to Rochester Bunting Apparatus Company, Rochester, N. Y. Racking-off apparatus for storage-vat devices.....	516,323	Mar. 13	952	224	66	1647
Wolters, Henry J., York, Pa., assignor to Rochester Bunting Apparatus Company, Rochester, N. Y. Means for and method of racking fine beer.....	516,324	Mar. 13	953	224	66	1648
Wolters, Wilhelm, Borowitschi, Russia. Concentrating sulfuric acid.....	514,983	Feb. 20	1662		66	1199
Woltmann, Ernst, Chicago, Ill. Electric switch.....	518,800	Apr. 24	2366	586	67	475
Wolverton, Byron C., Elmira, N. Y., assignor to New York and Pennsylvania Telephone and Telegraph Company. Coin-controlled telephone apparatus.....	524,925	Aug. 21	1641	402	68	989
Womer & Son, Peter, <i>et al.</i> (See Warner, Daniel, assignor.)						
Womersley, William, G. Sagne, and M. A. Clapp, Poughkeepsie, assignors to D. H. Burrell & Co., Little Falls, N. Y. Paper-feeding machine.....	516,325	Mar. 13	955	224	66	1648
Wommer, Anna L. E., administratrix. (See Wommer, Louis.)						
Wommer, Louis, deceased, Minneapolis, Minn.; A. L. E. Wommer, administratrix. Plat-form-scale.....	512,081	Jan. 2	589	141	66	112
Wommer, Louis, deceased, Minneapolis, Minn.; A. L. E. Wommer, administratrix. Automatic weighing-scale.....	512,082	Jan. 2	592	142	66	113
Woncher, Martin V., Brooklyn, N. Y. Carriage-wheel.....	522,248	July 3	128	30	68	25
Wonsou, Clara N., Gloucester, Mass., and D. W. Palmer, Hermon Centre, Me. Convertible chair.....	520,284	May 22	2361	573	67	1019
Wood, Albert A., Atlanta, Ga. Box-corner binding.....	515,310	Feb. 20	2200	545	66	1299
Wood, Albert A., Atlanta, Ga. Box-corner binder.....	527,308	Oct. 9	1038	252	69	207
Wood, Albert A., Atlanta, Ga. Box-binding machine.....	527,574	Oct. 16	1472	359	69	302
Wood, Anna, <i>et al.</i> (See Wood, Orlan T., assignor.)						
Wood, Augustus I. (See Ziegler and Wood.)						
Wood, Aurin, assignor, by mesne assignments, to L. W. Pond Machine Company, Worcester, Mass. Machine for turning pulleys.....	521,353	June 12	1079	253	67	1408
Wood, Benjamin, Richwood, Ohio. Billiard-cue-tipping rack.....	511,984	Jan. 2	425	99	66	81
Wood, Bernice, Benson, N. C. Fish-trap.....	528,839	Nov. 6	587	139	69	753
Wood, Charles H., Dayton, Ohio. Permutation-padlock.....	529,092	Nov. 13	1030	248	69	853
Wood, Charles W. (See Lursen and Wood.)						
Wood, Clarence H., Boston, assignor of one-half to S. Woodherry, Revere, Mass. Coin-package-delivery device.....	522,816	July 10	1114	276	68	226
Wood, Daniel B. (See Calhoun, Clond B., assignor.)						
Wood, David C., Matamoras, Pa. Culinary vessel.....	525,933	Sept. 11	1067	242	68	1357
Wood, Edgar J., Brooklyn, N. Y. Reducing-pressure valve and regulator.....	527,575	Oct. 16	1480	360	69	303
Wood, Erastus, Marshall, Ind. Garden-cultivator.....	522,868	July 10	1180	294	68	239
Wood, Frederick C., assignor of one-half to G. C. Bingham, Buffalo, N. Y. Combined type-writer case and table.....	521,067	June 5	564	132	67	1299

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Wood, Frederick W. (See Aiken and Wood.)						
Wood, George H., near Harrowgate, England. Self-acting railway signaling apparatus...	528,454	Oct. 30	3012	{ 727 728	69	613
Wood, Henry A. W., assignor to Campbell Printing Press and Manufacturing Company, New York, N. Y. Printing-machine	516,386	Mar. 13	1074	{ 255 256	66	1667
Wood, Horace L., New York, N. Y. Nut-lock	530,740	Dec. 11	1177	287	69	1443
Wood, Ira. (See Senior, Wood, Hughes, and Hemingway.)						
Wood, Isaac, Minneapolis, Minn. Oil-gas burner	513,028	Jan. 16	2186	521	66	439
Wood, James C. (See Singer and Wood.)						
Wood, James C., assignor of one-half to E. L. Brown, Indianapolis, Ind. Combined brush and scraper for cleaning boots or shoes	529,541	Nov. 20	1849	440	69	1021
Wood, James J., Fort Wayne, Ind. Alternating-current dynamo	512,424	Jan. 9	1157	{ 280 281 282	66	230
Wood, James J., Fort Wayne, Ind. Connection between separately-excited dynamos and their exciters	512,425	Jan. 9	1164	282	66	232
Wood, James J., Fort Wayne, Ind. Journal-bearing	513,696	Jan. 30	3290	{ 810 811	66	753
Wood, James J., Fort Wayne, Ind. Alternating dynamo	514,140	Feb. 6	256	63, 64	66	902
Wood, James J., Fort Wayne, Ind. Electric-arc lamp	515,850	Mar. 6	193	45, 46	66	1489
Wood, James J., Fort Wayne, Ind. Switchboard for high-tension circuits	520,128	May 22	2059	508	67	967
Wood, James J., Fort Wayne, Ind. Electric-current indicator	520,129	May 22	2091	{ 508 509	67	967
Wood, James J., Fort Wayne, Ind. Electric transformer	524,188	Aug. 7	372	88, 89	68	729
Wood, James J., Fort Wayne, Ind. Adjustable machine-base	526,066	Sept. 18	1294	{ 299 300	68	1412
Wood, James J., Fort Wayne, Ind. Armature-core	529,437	Nov. 20	1661	395	69	988
Wood, James N., assignor of one-half to W. P. De Saussure, Richmond, Va. Machine for selecting and boxing cigarettes	522,139	June 26	2467	{ 592 593	67	1698
Wood, John E. (See Sills and Wood.)						
Wood, John F. (See Rymes, George W., assignor.)						
Wood, John J., Liverpool, England. Double eyeglasses	529,988	Nov. 27	2610	626	69	1174
Wood, Joseph S., Philadelphia, Pa. Vapor-burner	515,984	Mar. 6	407	94	66	1528
Wood, Julia B. (See Wood, Rosto O., assignor.)						
Wood, Lyman P. et al. (See Kellogg, William M., assignor.)						
Wood, Montraville M., assignor to Wallace Electric Company, Chicago, Ill. Trolley-wire support	527,920	Oct. 23	2068	496	69	428
Wood, Montraville M., Chicago, Ill., assignor to Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp	530,569	Dec. 11	890	219	69	1394
Wood, Orlan T., assignor to P. V. McCulley and A. Wood, Plattsmouth, Nebr. Check-row corn-planter	527,824	Oct. 23	1884	452	69	394
Wood, Richard G., Allegheny, assignor to W. Dewees Wood Company, McKeesport, Pa. Rolling-mill	517,716	Apr. 3	510	123	67	99
Wood, Robert. (See Kidd, Alexander, assignor.)						
Wood, Rosto O., assignor, by mesne assignments, to J. B. Wood, Worcester, Mass. Vehicle-wheel	515,456	Feb. 27	2450	607	66	1357
Wood, Walter. (See Richards, Francis H., assignor.)						
Wood, Walter, Philadelphia, Pa. Gasometer	517,254	Mar. 27	2554	{ 598 599	66	1980
Wood, Warwick W., Winston, N. C. Manufacture of plug-tobacco	513,550	Jan. 30	3043	749	66	709
Wood, Webster A., and E. Ross, Northville, Mich. Fire-escape	514,402	Feb. 13	1378	346	66	1132
Wood, William C., Brooklyn, N. Y. Dry-sand molding	525,040	Aug. 28	1857	{ 453 454	68	1047
Wood, William C., assignor to Lewis & Fowler Girder-Rail Company, Brooklyn, N. Y. Street-railway special work	511,831	Jan. 2	132	33, 34	66	28
Wood, William C., assignor to Lewis & Fowler Girder-Rail Company, Brooklyn, N. Y. Street-railway crossing	512,351	Jan. 9	1024	250	66	205
Wood, William H., Media, Pa. Hydraulic-pressure-reducing valve	512,142	Jan. 2	682	164	66	131
Wood, William M., Elmira, N. Y. Safety device for engines	529,672	Nov. 20	2051	491	69	1059
Wood, William O., Syracuse, N. Y. Rotary snow-plow	530,739	Dec. 11	1176	{ 246 247	69	1443
Wood, William T., Washington, D. C. Lathe	523,825	July 31	2874	{ 714 715	68	598
Wood, William T., Washington, D. C. Dumping-cart	525,379	Sept. 4	105	27	68	1169
Woodall, Charles H., assignor of one-fourth to W. C. Snodgrass and B. F. Hawkins, Thomasville, Ga. Axle-cutting machine	512,426	Jan. 9	1166	283	66	232
Woodard, Alonzo B. (See Thornton and Woodard.)						
Woodard, Alvin N., Mansfield, Ohio. Belt-line package and cash carrier	524,626	Aug. 14	1134	{ 278 279	68	887
Woodard, Alvin N., Mansfield, Ohio. Tilting parcel and cash carrier apparatus	524,627	Aug. 14	1136	279	68	887
Woodard, Alvin N., assignor of one-fourth to L. Reed, Mansfield, Ohio. Burglar-alarm	515,851	Mar. 6	196	46	66	1499
Woodard, Luke, Muncie, Ind. Sash-fastener	512,785	Jan. 16	1782	424	66	364
Woodard, Edward C., Brockton, Mass. Adjustable handle for bicycles	527,576	Oct. 16	1482	360	69	304
Woodard, Lyman E., Owosso, Mich. Casket-handle	530,814	Dec. 11	1290	312	69	1466
Woodard, William A. (See Hards and Woodard.)						
Woodberry, Solomon. (See Wood, Clarence H., assignor.)						
Woodburn, Isaac W., Rock Rapids, Iowa. Thrashing-machine	530,815	Dec. 11	1293	{ 312 313	69	1466
Woodbury, Levi. (See Graham, Edmund H., assignor.)						
Woodcock, Exley, Sr., N. O., and E., Jr., Huddersfield, England. Apparatus for dyeing	511,985	Jan. 2	426	{ 99 100 101	66	82
Woodcock, Nelson O. (See Woodcock, Exley, Sr., N. O., and E., Jr.)						
Woodcock, William H. (See Purdon, Walters, and Woodcock.)						
Woodfolk, Joseph W., and J. C. Wharton, Nashville, Tenn. Apparatus for electric heating, smelting, and separating	531,143	Dec. 18	1866	443	69	1585
Woodgate, Herbert F. (See Griffiths and Woodgate.)						
Woodhead, North A., Philadelphia, Pa. Jacquard mechanism for looms	511,986	Jan. 2	429	101	66	82
Woodhead, Sam C., Philadelphia, Pa. Trolley-wire support or hanger	527,355	Oct. 9	1113	271	69	221
Woodhouse, Daniel A., New York, N. Y. Water-tower	513,167	Jan. 23	2395	578	66	550
Woodier, Alfred. (See Bentley, Squire, assignor.)						
Woodin, Arthur J., Park Rapids, Minn. Harvester cutter-bar	526,827	Oct. 2	259	63	69	49
Woodley, George F. (See Sayer, Frederick P., assignor.)						
Woodmancy, Henry F., assignor to Whitin Machine Works, Incorporated, Whitinsville, Mass. Spindle-support. (Reissue)	11,407	Mar. 20	2138	505	66	1884

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Woodruff, Augustus H., Vailsburg, N. J. Furnace.....	526,475	Sept. 25	2033	484	63	1562
Woodruff, Frank E., Calis, W. Va. Robe-holder.....	519,399	May 8	847	205	67	714
Woodruff, John L., (See Houghton, Charles L., assignor.)						
Woodruff, Oliver D., (See Snow, Levi T., assignor.)						
Woodruff, Oliver D., Sonthington, Conn. Meat-cutter.....	529,149	Nov. 13	1121	272	69	870
Woodruff, Theodore T., deceased; I. I. Gerson, Philadelphia, Pa., administrator. Folding bedstead.....	512,184	Jan. 2	755	184	66	144
Woodruff, Theodore T., deceased; I. I. Gerson, Philadelphia, Pa., administrator. Folding bedstead.....	512,185	Jan. 2	753	184 185	66	144
Woods, Edward, Sault Ste. Marie, Mich. Foot for dredges.....	512,083	Jan. 2	593	143	66	114
Woods, Hampton, (See Cassard, Herbert, assignor.)						
Woods, Hampton, Chicago, Ill., assignor of one-half to H. Cassard, Baltimore, Md. Water-purifier.....	525,302	Aug. 28	2293	557	68	1126
Woods, Hampton, Chicago, Ill., assignor of one-half to H. Cassard, Baltimore, Md. Water-purifier.....	525,303	Aug. 28	2296	558	68	1126
Woods, Hampton, Chicago, Ill., assignor of one-half to H. Cassard, Baltimore, Md. Water-purifier.....	525,304	Aug. 28	2297	558	68	1126
Woods, James, Newton Brook, Canada. Farm-gate.....	525,674	Sept. 4	594	142	67	1260
Woods, James W., and D. I. Barnett, Toronto, Canada. Length-indicator for fabrics.....	520,946	June 5	353	87	67	1262
Woods, Johnson P., (See Hodges, Jesse B., assignor.)						
Woods, Margaret A., Somerville, Mass. Abdominal supporter.....	522,394	July 3	385	98	68	76
Woods, Murray S., (See Rubbers, John H., assignor.)						
Woods, Richard E., (See Lubbers, John H., assignor.)						
Woods, William, Frostburg, Md. Sliding gate.....	518,128	Apr. 10	1184	296	67	232
Woodson, Margery, (See Atwood and Treadway, assignors.)						
Woodsum, Daniel R. and F. M., Sunapee, N. H. Engine attachment.....	519,488	May 8	994	240	67	739
Woodsum, Frank M., (See Woodsum, Daniel R. and F. M.)						
Woodward, Alfred A., Birmingham, England. Thumb-tack.....	524,660	Aug. 14	1186	291	68	896
Woodward, Alonzo S., East Pepperell, Mass. Process of and machine for enameling paper.....	522,752	Nov. 6	403	97	69	720
Woodward, Arthur H., Chicago, Ill. Duplicate-whist box.....	521,302	June 12	979	232	67	1388
Woodward, Benjamin F., (See Hersh, Woodward, and Pettie.)						
Woodward, Charles E. W., Chicopee Falls, Mass., assignor to Overman Wheel Company, Chicopee Falls, Mass., and Hartford, Conn. Making joints in pneumatic tires.....	523,056	Oct. 23	2318	559	69	473
Woodward, Erastus, Somerville, Mass. Tack-driving machine.....	515,269	Feb. 20	2124	527 528 529	66	1284
Woodward, Henry W., Chicopee, Mass. Supporting attachment for bicycles.....	523,952	July 31	3112	774	68	643
Woodward, J. K., (See Baggs, Samuel A., assignor.)						
Woodward, James W., Vandalia, Ill. Ice-cream freezer.....	516,145	Mar. 6	659	154 155	66	1576
Woodward, John K., Riverside, Cal. Fruit-gatherer.....	517,786	Apr. 3	622	156	67	121
Woodward, Russel G., Wanegon, assignor to Union Special Sewing Machine Company, Chicago, Ill. Presser-foot for sewing machines.....	519,897	May 15	1684	411	67	881
Woodward, Theodore F., Camden, N. J. Type-writing machine.....	514,141	Feb. 6	262	64, 65	66	903
Woodworth, Justin P., (See Smith, Oliver E., assignor.)						
Woodworth, Orson H., Columbia City, Ind. Compound tri-liquid barometer.....	517,029	Mar. 27	2220	538	66	1927
Wool, Morris, Middlebury, Vt. Holder for brushes.....	528,267	Oct. 30	2891	649	69	556
Woodridge, Joseph F., assignor of three-fourths to J. J. Hickok, Richmond, Va. Machine for making plug-tobacco.....	511,832	Jan. 2	135	34, 35	66	29
Woolf, Ellis J., assignor to Woolf Valve Gear Company, Minneapolis, Minn. Engine.....	521,278	June 12	929	220	67	1378
Woolf, Ellis J., assignor to Woolf Valve Gear Company, Minneapolis, Minn. Engine.....	531,285	Dec. 18	2132	511	69	1633
Woolf, Ellis J., assignor to Woolf Valve Gear Company, Minneapolis, Minn. Engine.....	531,286	Dec. 18	2134	511 512	69	1634
Woolf, Henry M., executor. (See Everitt, Percival.)						
Woolf Valve Gear Company, (See Peebles, John, assignor.)						
Woolf Valve Gear Company, (See Woolf, Ellis J., assignor.)						
Woolley, Lell H., Oakland, Cal. Splice or support for railway-rail joints.....	524,293	Aug. 7	550	131	68	760
Woolsey, De Witt C., Middlebnsh, N. J. Eyelet for carriage and buggy curtains.....	523,580	Nov. 6	96	24	69	664
Woolston, William T., (See Overman and Woolston.)						
Woolverton Glow Arc Electric Light Company, (See Woolverton, John E., assignor.)						
Woolverton, Jacob C., Brooklyn, N. Y. Railway-switch.....	517,090	Mar. 27	2224	538	66	1927
Woolverton, John E., assignor to Woolverton Glow Arc Electric Light Company, New York, N. Y. Electric-arc lamp.....	514,583	Feb. 13	1019	256	66	1062
Woolverton, John E., New York, N. Y., assignor to Auerbach-Woolverton Electric Company, of New Jersey. Electric-arc lamp.....	527,228	Oct. 9	899	218	69	183
Woolverton, John E., assignor to Auerbach-Woolverton Electric Company, New York, N. Y. Electric-arc lamp.....	527,229	Oct. 9	901	218	69	184
Woonsocket Machine and Press Company, (See Campbell, Malcolm, assignor.)						
Wootton, Robert, (See Hewitt and Wootton.)						
Word, Aaron M., Amarillo, Tex. Clevis.....	513,854	Jan. 30	3539	872	66	802
Worden, Charles A., U. S. Army, assignor to Worden Machine Company, of Nebraska. Machine for sharpening razors, shears, &c.....	516,146	Mar. 6	661	155	66	1576
Worden, Charles A., U. S. Army, assignor to Worden Machine Company, Omaha, Nebr., and New York, N. Y. Razor holding and adjusting device for sharpening machines.....	519,296	May 1	639	156	67	661
Worden, Charles A., U. S. Army, assignor to Worden Machine Company, Omaha, Nebr. Machine for sharpening razors.....	522,361	July 3	316	81	68	62
Worden, George W., Dover, Del. Shipping-crate.....	521,354	June 12	1082	254	67	1408
Worden, George W., and H. Hnetig, Philadelphia, Pa. Bath-brush.....	522,174	June 26	2527	606	67	1710
Worden, Liberty M., Pittsburg, Pa. Safety non-telescoping railway-car.....	514,142	Feb. 6	266	66	66	903
Worden Machine Company, (See Worden, Charles A., assignor.)						
Wores, Charles R., (See Wilson and Wores.)						
Work, Andrew S., (See D'Humy, Paul R. D., assignor.)						
Work, Charles L., assignor of one-half to A. E. Thomas, Dayton, Ohio. Book-support.....	517,255	Mar. 27	2556	599	66	1981
Workland, William L., Letts Corner, Ind. Nut-lock.....	523,029	July 17	1479	368	68	311
Worley, Edward G., New York, N. Y. Electric bell.....	530,253	Dec. 4	309	77	69	1272
Worsley, Charles A., (See Frazee, John, assignor.)						
Worsley, Philip J., W. Windus, and B. Bracey, Bristol, assignors to United Alkali Company, Limited, Liverpool, England. Process of and apparatus for absorbing chlorine gas.....	521,629	June 19	1567	366	67	1513
Worswick, James E., Americans, Ga. Car-brake shoe and dresser.....	523,198	Oct. 30	2571	622	69	533
Worth, Conrad, Los Angeles, Cal. Railway time-indicator.....	517,943	Apr. 10	859	216	67	179
Worthen, William E., New York, N. Y. Locomotive.....	517,133	Mar. 27	2349	554	66	1941
Worthen, William E., New York, N. Y. Apparatus for supplying or removing storage-batteries.....	517,134	Mar. 27	2351	554 555	66	1941

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Worthington, Albert I., assignor to Worthington Car Coupler Company, Chicago, Ill. Car-coupling	531,492	Dec. 25	2504	596	69	1719
Worthington, Amasa, Brooklyn, N. Y. Sectional steam-boiler	524,877	Aug. 21	1550	³⁷⁹ ₃₈₀	68	974
Worthington, Amasa, Brooklyn, N. Y. Boiler-setting	524,878	Aug. 21	1553	³⁸⁰ ₃₈₁	68	974
Worthington Car Coupler Company. (See Worthington, Albert I., assignor.)						
Worthington, Charles C., Irvington, N. Y. Pressure-accumulator	524,013	Aug. 7	74	16, 17	68	676
Worthington, Charles C., Irvington, N. Y. Valve-gear for pumps	526,429	Sept. 25	1955	⁴⁶⁶ ₄₆₇	68	1548
Worthington, Charles C., Irvington, N. Y. Pump	528,282	Oct. 30	2720	⁶⁵⁶ ₆₅₇	69	561
Worthington, Charles T. (See Basket, James M., assignor.)						
Worthington, Henry R. (See Caldwell, Andrew J., assignor.)						
Worthington, John. (See Hibbert, Fawcett, and Worthington.)						
Worthington, Samuel M. (See Wheatley and Worthington.)						
Wortmann, Sigismund B., New York, N. Y. Spring-motor	523,190	July 17	1763	⁴⁴² ₄₄₃	68	363
Wotherspoon, James R., Philadelphia, Pa. Watering pot	518,437	Apr. 17	1743	433	67	351
Wotring, Amos. (See Whitcomb and Wotring.)						
Wotton, James A., Atlanta, Ga. Busy-test for multiple switchboards	521,303.	June 12	982	232	67	1388
Wowra, Carl, Chicago, Ill. Car-seat	527,095	Oct. 9	678	¹⁶⁷ ₁₆₈	69	142
Wratzke, Alfred. (See Dreger and Wratzke.)						
Wrede, Friedrich, Dresden, Germany. Glass-melting tank-oven	517,675	Apr. 3	442	107	67	25
Wright, Alfred V. (See Beesley, William, assignor.)						
Wright, Arthur A., Bennington, Vt. Dish-cleaner	524,409	Aug. 14	786	192	63	821
Wright, Arthur O., Birmingham, England. Machine for making metal laths	513,601	Jan. 30	3134	769	66	725
Wright, Arthur O., Birmingham, England. Metallic lathing	527,577	Oct. 16	1484	360	69	304
Wright, Arthur O., Birmingham, England. Machine for making metal laths	527,578	Oct. 16	1484	361	69	304
Wright, Bushnell A., San Jacinto, Cal. Fruit-picker	519,371	May 8	796	195	67	706
Wright, Bushnell A., San Jacinto, Cal. Step-ladder	522,444	July 3	471	119	68	94
Wright, Charles A., Philadelphia, Pa. Lock for doors of moving vehicles	528,581	Nov. 6	98	25	69	684
Wright, Charles A., Philadelphia, Pa. Vehicle-door	529,226	Nov. 13	1260	304	69	894
Wright, Charles L. (See Kelsey, Frank N., assignor.)						
Wright, Christopher, Omaha, Nebr. Shipping-can	514,052	Feb. 6	122	29	68	876
Wright & Colton Wire Cloth Company. (See Wright, George M., assignor.)						
Wright, Daniel M., Scranton, Pa. Vegetable-cutter	521,279*	June 12	932	220	67	1379
Wright, Edward T., assignor to O. S. Kelly Company, Springfield, Ohio. Tender for road-engines	518,982	May 1	76	20	67	550
Wright, Edward T., assignor to O. S. Kelly Company, Springfield, Ohio. Steam road-roller	524,628.	Aug. 14	1138	279	68	888
Wright, Elisha P. S. (See Balph and Wright.)						
Wright, Elmer A., Monrovia, Cal. Fire-alarm	520,348	May 22	2471	599	67	1040
Wright, Frank W. (See Post, Howard A., assignor.)						
Wright, Frank W., Wichita, Kans. Can-opener	528,582	Nov. 6	99	25	69	664
Wright, George, Winnipeg, Canada. Manhole for sewers	530,816	Dec. 11	1296	313	69	1467
Wright, George A., and M. L. Jacoby; said Jacoby assignor of one-eighth to J. A. Wright, Bellevue, Ohio. Horse-blanket pin	527,740	Oct. 16	1746	421	69	352
Wright, George C., assignor of three-fourths to N. S. Byram, Indianapolis, Ind. Wire for fencing	517,256	Mar. 27	2557	599	66	1981
Wright, George F., Worcester, Mass. Wire-netting machine	529,093	Nov. 13	1031	²⁴⁸ ₂₄₉	69	853
Wright, George M., assignor to Wright & Colton Wire Cloth Company, Worcester, Mass. Wire-netting machine	517,204	Mar. 27	2473	⁵⁸² ₅₈₃	66	1965
Wright, George M., assignor of one-half to Wright & Colton Wire Cloth Company, Worcester, Mass. Apparatus for galvanizing wire	518,048	Apr. 10	1061	268	67	210
Wright, George N. (See Toye, William H. R., assignor.)						
Wright, Granville W., and A. A. Page, assignors to Sargent & Company, New Haven, Conn. Bench-plane	512,084	Jan. 2	594	143	66	114
Wright, Harry, Kettering, England. Eyelet-hole-punching machine	521,068	June 5	565	¹³² ₁₃₃	67	1299
Wright, Hebden, Ingrow, near Keighley, England. Loom let-off mechanism	515,639	Feb. 27	2736	⁶⁸¹ ₆₈₂	66	1413
Wright, Henry H. (See Walmsley and Wright.)						
Wright, Henry J. (See Smith, Arthur J., assignor.)						
Wright, Isaac D., Sedalia, Mo. Bow-facing oar	522,545	July 3	625	159	68	122
Wright, Isaac D., assignor to C. C. and W. H. Van Wagner, I. D. Wright, and R. H. Moses, Sedalia, Mo. Shoe-fastener	526,956	Oct. 2	470	116	69	89
Wright, Jacob P. (See Beecher and Wright.)						
Wright, Jacob P., New Haven, Conn. Match-box	521,903	June 26	2041	492	67	1621
Wright, James N., Quincy, Ill. Dumping-cage	529,227	Nov. 13	1263	304	69	894
Wright, James O., Lafayette, Ind., assignor of one-half to Marion Steam Shovel Company, Marion, Ohio. Dumping-incline	528,753	Nov. 6	404	97, 98	69	720
Wright, John A. (See Wright and Jacoby, assignors.)						
Wright, John D., et al. (See Parker, Thomas, assignor.)						
Wright, Joseph. (See Hebblethwaite, John H., assignor.)						
Wright, Joseph, Cooks, Mich. Link-and-pin car-coupling	528,896	Nov. 6	677	163	69	770
Wright, Lewis S. N., and C. S. Bailey, Princeton, Mo. Heating-stove	519,011	May 1	117	28	67	558
Wright, Martin, Leicester, England. Printing-machine	522,502	July 3	554	¹⁴¹ ₁₄₂	68	110
Wright, Peter, assignor to United Gas Improvement Company, Philadelphia, Pa. Transformer electric-lighting system	521,924	June 26	2079	499	67	1627
Wright, Peter, assignor to United Gas Improvement Company, Philadelphia, Pa. Transformer system of electrical distribution	521,925	June 26	2084	⁵⁰⁰ ₅₀₁	67	1628
Wright, Rufus, Akron, Ohio. Water-closet flushing-valve regulator	514,110	Feb. 6	209	48	66	894
Wright, Samson D., and J. W. Hornsey, assignors to Ball Bearing Car Wheel Manufacturing Company, Cleveland, Ohio. Roller-bearing wheel	515,101	Feb. 20	1838	464	66	1231
Wright, Samson D., and J. W. Hornsey, assignors to Ball Bearing Car Wheel Manufacturing Company, Cleveland, Ohio. Sectional chill for wheel-hubs	515,102	Feb. 20	1840	464	66	1231
Wright, Spencer D. (See Carter, Albert S., assignor.)						
Wright, Stephen W., et al. (See Timbrell and Fyfe, assignors.)						
Wright, Sylvanus D., New York, N. Y. Car-fender	528,057	Oct. 23	2321	560	69	473
Wright, Syrus W., Huffman, Ala. Nut-lock	517,534	Apr. 3	190	43	67	32
Wright, Thomas, Jersey City, N. J. Dumping device for wagons	529,989	Nov. 27	2611	627	69	1174

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Wright, Thomas C., Chicago, Ill. Car-starter.....	530,150	Dec. 4	123	32	69	1238
Wright, Walter B., Chicago, Ill. Injector-burner.....	524,369	Aug. 14	708	172	68	807
Wright, Wilber S., and J. E. Venus, New Orleans, La. Automatic switch for electric railways.....	526,985	Oct. 2	515	126	69	97
Wright, Wilkinson D. (See Hopkins, Albert A., assignor.)						
Wright, William. (See Newsome, Simeon, assignor.)						
Wright, William, assignor of one-half to G. O. Avery, Boston, Mass. Dental apparatus.....	522,309	July 3	231	62	68	46
Wright, William A., South Los Angeles, Cal. Decapping or recapping implement.....	525,065	Aug. 28	1904	466	68	1055
Wright, William A., Centreton, N. J., assignor of one-third to L. Palmer, Harrisburg, Pa. Combined envelope, letter-sheet, circular, and casing.....	521,902	June 26	2040	492	67	1620
Wright, William H., Buffalo, N. Y. Car-axle lubricator.....	518,384	Apr. 17	1656	409	67	335
Wright, William H., Buffalo, N. Y. Dust-guard for car-axle boxes.....	518,385	Apr. 17	1657	409	67	335
Wright, William H., assignor of one-half to J. Weber, Buffalo, N. Y. Fabric for ventilated packages.....	514,610	Feb. 13	1065	266	66	1071
Wright, William J., Oakland, Cal. Wrench or clamp adjustment.....	526,476	Sept. 25	2034	484	68	1562
Wrigley, John, Elmira, N. Y. Interlocking railway-switch.....	511,921	Jan. 2	332	78	66	63
Wrigley, Thomas, Todmorden, England. Bobbin and spindle.....	515,035	Feb. 20	1747	441	66	1213
Wrigley, William, Boston, Mass. Faucet.....	515,810	Mar. 6	133	32	66	1478
Wuelfing, Hugo, assignor of one-fourth to P. Wuelfing, Indianapolis, Ind. Bottling-machine.....	523,392	July 24	2101	528 529	68	442
Wuelfing, Paul. (See Wuelfing, Hugo, assignor.)						
Wnest, Philip, Jr., assignor to C. J. and F. J. Heppie, Philadelphia, Pa. Electric motor.....	516,784	Mar. 20	1745	411	66	1808
Wulff, Ludwig, Schwern, assignor, by mesne assignments, to J. Bock, Breslau, Germany. Crystallization of saccharine or other solutions.....	528,497	Oct. 30	3089	749	69	627
Wunder, John, Dubuque, Iowa. Combined music holder and stand.....	527,096	Oct. 9	682	168	69	143
Wunderlich, Frederick A. C., New York, and D. N. Gleason, Brooklyn, N. Y. Turning-lathe.....	512,427	Jan. 9	1167	283	66	232
Wuppermann, Reubard. (See Lorenz and Wuppermann.)						
Wurlitzer, Howard E., Cincinnati, Ohio. Stringed musical instrument.....	519,751	May 15	1443	348	67	835
Wurmb, Theodore H. (See Hornig, Julius L., assignor.)						
Wyand, William, Atlantic City, N. J. Automatic chemical fire-extinguisher.....	512,428	Jan. 9	1169	283 284	66	233
Wyand, William, Atlantic City, N. J. Observation-roundabout.....	512,429	Jan. 9	1171	284	66	233
Wyatt, Edward W. (See Death, Edward, assignor.)						
Wyatt, Francis. (See Ingalls and Wyatt.)						
Wyatt, Thomas M., et al. (See Fuller, Henry C., assignor.)						
Wyckoff, George D. (See Field, Hiram, assignor.)						
Wyckoff, James W., and J. M. Welton, Jacobsville, Mich. Metal for blades, pipes, &c.....	529,990	Nov. 27	2614	627	69	1174
Wyckoff, Joseph E., Rand, Colo. Horse bay-rake.....	526,886	Oct. 2	359	90	69	67
Wyckoff, Seamans & Benedict. (See Diss, Louis P., assignor.)						
Wyckoff, Seamans & Benedict. (See Gifford, Harry E., assignor.)						
Wyckoff, Seamans & Benedict. (See Webb, George B., assignor.)						
Wyckoff, William H. (See Rusco, Philip, assignor.)						
Wyer, Lew., Milwaukee, Wis. Game apparatus.....	529,228	Nov. 13	1264	304	69	895
Wylie, Alexander, Johnstone, near Glasgow, Scotland. Apparatus for manufacturing pipes, covering wire, &c.....	512,143	Jan. 2	684	164	66	131
Wylie, Chester L., assignor of two-thirds to O. P. Emerson, Valley City, and S. B. Clary, Fargo, N. D. Grain-meter.....	521,904	June 26	2043	492	67	1621
Wyman, Charles E., Martinsburg, Ind. Drill for wells, &c.....	519,012	May 1	118	28, 29	67	558
Wyman, Charles E., Martinsburg, assignor of one-half to J. H. Stotsenburg, New Albany, Ind. Rock-crusher.....	517,717	Apr. 3	512	124	67	99
Wyman, Horace, and J. A. Clark, assignors to Crompton Loom Works, Worcester, Mass. Mechanism for drawing yarn or thread into carriers.....	516,147	Mar. 6	664	156	66	1577
Wyman, Horace, Worcester, and G. Poole, Lowell, assignors to Massachusetts Mohair Plush Company, Boston, and Crompton Loom Works, Worcester, Mass. Pile-fabric loom.....	529,150	Nov. 13	1124	272 273	69	871
Wyman, Horace, Worcester, and G. Poole, Lowell, assignors to Massachusetts Mohair Plush Company, Boston, and Crompton Loom Works, Worcester, Mass. Pile-fabric loom.....	529,151	Nov. 13	1126	273	69	871
Wyman, Horace B., Slingerlands, assignor of one-half to A. C. Goodwin, Albany, N. Y. Cleat for supporting conducting-wires for electric circuits.....	518,907	Apr. 24	2545	629	67	510
Wyman, Horace W., and L. F. Gordon, Worcester, Mass. Making car-coupling-hook blanks.....	524,879	Aug. 21	1536	381	68	975
Wyman, Horace W., and L. F. Gordon, Worcester, Mass. Die for forging car-coupling books.....	524,880	Aug. 21	1557	381	68	975
Wynant, John S. (See Miltonberger, Wynant, and Schott.)						
Wynia, Dennes L. (See Van Wechel and Wynia.)						
Wynn, John P., and T. W. Gillespie, Lock Haven, Pa. Pipe-wrench.....	518,517	Apr. 17	1876	464	67	375
Wyssinger, Leonard, and M. H. Baer, Leitersburg, Md. Fence-wire stretcher.....	516,040	Mar. 6	505	117	66	1546
Yakel, Henry. (See Lo Casto, Tony, assignor.)						
Yakel, Levi, Allegheny, Pa. Trolley-wire support.....	524,014	Aug. 7	79	17, 18	68	677
Yale, Charles O., New York, N. Y. Locking mechanism for safes.....	521,842	June 26	1931	463	67	1598
Yale, Charles O., New York, N. Y., and J. H. Ames, St. Paul, Minn. Pneumatic trans-mitter or store-service.....	520,664	May 29	2983	721 722	67	1150
Yale & Towne Manufacturing Company. (See Magovern and Scaulau, assignors.)						
Yale & Towne Manufacturing Company. (See Mix, Frank W., assignor.)						
Yale & Towne Manufacturing Company. (See O'Keefe, Andrew, assignor.)						
Yale & Towne Manufacturing Company. (See Stockwell, Emory, assignor.)						
Yale & Towne Manufacturing Company. (See Taylor, Warren H., assignor.)						
Yale & Towne Manufacturing Company. (See Towne, Henry R., assignor.)						
Yancey, Lee, Chicago, Ill. Attachment for adjusting window shades or curtains.....	519,856	May 15	1619	394	67	868
Yant, Newton D., Allegheny, Pa. Dolly-bar for riveting.....	528,118	Oct. 23	2433	588	69	493
Yapp, William J., London, England. Flexible support for umbrellas, &c.....	521,355	June 12	1084	251	67	1409
Yapp, William J., London, England. Boot-tree.....	525,934	Sept. 11	1608	243	68	1357
Yarnell, Charles S., assignor to Moore Carving Machine Company, Minneapolis, Minn. Frame for supporting patterns and material for carving-machines.....	519,752	May 15	1444	349	67	835
Yarnell, Charles S., assignor to Moore Carving Machine Company, Minneapolis, Minn. Rubbing or polishing machine.....	528,199	Oct. 30	2573	622	69	534
Yarnell, Charles S., assignor to Moore Carving Machine Company, Minneapolis, Minn. Carving-machine.....	530,570	Dec. 11	891	219 220	69	1394
Yarrington, Perry, Boston, Mass. Apparatus for manufacturing hydrogen gas.....	525,380	Sept. 4	107	27, 28	68	1169
Yarrowood, Matthew C., Syracuse, N. Y. Vehicle-wheel.....	515,392	Feb. 27	2349	583	66	1339
Yates, Arthur P. (See Fox and Yates.)						
Yates, J. W., et al. (See Rust, Robert S., assignor.)						
Yates, Joseph. (See Matthews and Yates.)						
Yates, Samuel B., assignor of one-half to J. W. W. Scarlett, New Britain, Conn. Strike-plate for bolts.....	530,316	Dec. 4	422	106	69	1292

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Yates, Walter. (See Matthews and Yates.)						
Yeager, John, Conemaugh, Pa. Sanding device for railways	527,825	Oct. 23	1887	452 433	69	395
Yeager, William, and B. E. Westlin, Brooklyn, N. Y. Clamp	521,872	June 26	1977	477	67	1608
Yeates, Jesse J., Birmingham, Ala. Case for paper sheets.	526,282	Sept. 18	1659	391	68	1479
Yeatman, William H., <i>et al.</i> (See Saur, William, assignor.)						
Yellott, John L. (See Harding and Fitzhugh, assignors.)						
Yeoman, J. M., <i>et al.</i> (See Harvey, Isaac, assignor.)						
Yeoman, Robert H., Omaha, Nebr. Furnace	525,399	Sept. 4	145	36	68	1177
Yerby, Ross B., assignor of two-fifths to F. D. Creamer, Brooklyn, N. Y. Bottle	516,006	Mar. 6	441	101	66	1534
Yerby, Ross B., Brooklyn, assignor of one-half to L. T. Duryea, Glen Cove, N. Y. Switch.	524,036	Aug. 7	112	24	68	682
Yerger, Francis B., Niantic, R. I. Stone-polishing wheel	522,546	July 3	626	160	68	123
Yerkes, William H. (See Elliott, Lucius W., assignor.)						
Yinger, Frank H., Zanesville, Ohio. Car-coupling	518,684	Apr. 24	2159	540	67	410
Yinger, George, Harrisburg, Pa. Steam cooking device	520,470	May 29	2668	645	67	1092
Yingling, C. J., <i>et al.</i> (See Vannette, Jasper, assignor.)						
Yingling, George S., <i>et al.</i> (See Vannette, Jasper, assignor.)						
Yocom, James, Philadelphia, Pa. Cast-metal wheel	523,030	July 17	1480	368	68	311
Yoch, Benhard, Belleville, Ill. Brake for mining-engines	529,991	Nov. 27	2615	627	69	1174
Yokey, Charles H., New Orleans, La. Door-securer	512,572	Jan. 9	1393	338	66	276
York, Carl E., <i>et al.</i> (See Dow, George B. N., assignor.)						
York, Hugh H. (See Riley and York.)						
York, James E. (See York, Levi D., assignor.)						
York, John W. (See Higgins, Frederick A., assignor.)						
York, Levi D., Portsmouth, Ohio, assignor of one-half to J. E. York, Duluth, Minn. Roll- ing apparatus	528,200	Oct. 30	2574	623	69	534
York, Phineas H., assignor to Tonk Manufacturing Company, Chicago, Ill. Wooden base for piano-stools	528,706	Nov. 6	325	79	69	705
York, Thomas, Portsmouth, Ohio. Dish-cover	519,417	May 8	874	211	67	720
Yost, Charles W., Steelton, Pa. Bolting-machine	529,009	Nov. 13	892	210 211	69	828
Yost, George W. N., assignor to Yost Writing Machine Company, New York, N. Y. Type- writing machine	522,333	July 3	270	71	68	55
Yost, Louis P. D., Canton, Ohio. Heating-furnace	524,370	Aug. 14	711	172 173	68	808
Yost Manufacturing Company. (See Roberts, Frank E., assignor.)						
Yost Writing Machine Company. (See Cohn, Oscar, assignor.)						
Yost Writing Machine Company. (See Yost, George W. N., assignor.)						
Younce, Daniel B., assignor of one-half to C. L. Flory, Centre, Ohio. Wire-fence stay	530,981	Dec. 18	1577	374	69	1532
Young, Abraham L., Chicago, Ill. Combined nozzle and sprinkler	513,291	Jan. 23	2599	629	66	590
Young, Charles A., and S. H. Barton, Enon, Ohio. Ejector and firing-pin operated by mainspring	523,845	July 31	2922	728	68	606
Young, Charles C., Ellsworth, Me. Lubricator	513,290	Jan. 23	2598	629	66	590
Young, Charles N. (See Meyer, Young, and Boyce.)						
Young, Charles P. (See Gerber, Charles, assignor.)						
Young, Charles P., York, Pa. Coin-slot machine	513,224	Jan. 23	2477	598	66	565
Young, Charles P., York, Pa. Coin-slot machine	513,225	Jan. 23	2479	599	66	566
Young, Charles P., York, Pa. Vending machine	523,826	July 31	2878	715	68	598
Young, Charles T. (See Morrow, George W., assignor.)						
Young, Edwin J., assignor to Garfield Injector Company, Wadsworth, Ohio. Injector	516,387	Mar. 13	1076	256	66	1668
Young, Elmer C., Washington, Iowa. Grain-weigher	529,229	Nov. 13	1265	304	69	895
Young, Ernest. (See Ferguson, Lyman, assignor.)						
Young, Ernest W., Michigan City, Ind. Pneumatic tire	527,097	Oct. 9	684	168 169	69	143
Young, Frank E., Canton, Ohio. Hoisting-tackle	524,015	Aug. 7	80	18	68	677
Young, Frank M. H., <i>et al.</i> (See Paul, James and J. T., assignors.)						
Young, Frederick W., Bloomfield, N. J. Safety-gate	526,211	Sept. 18	1552	364	68	1458
Young, George C., Washington, assignor of two-thirds to J. M. R. Shiner and G. O. Wil- lever, Phillipsburg, N. J. Railway-signal	512,644	Jan. 9	1521	365 366	66	299
Young, George W., Cincinnati, Ohio. Calking-hub with soldering nipple or ferrule	519,372	May 8	798	195	67	706
Young, Hugh, Chicago, Ill. Saving-machine	526,477	Sept. 25	2035	425	68	1562
Young, James D., Duluth, Minn. Steam or hot-water radiator	530,317	Dec. 4	423	106	69	1292
Young, John, assignor of one-half to D. Bass, Woonsocket, R. I. Lathe-carriage	516,622	Mar. 13	1469	347 348	66	1742
Young, Lewis R. (See Millar, George G. J., assignor.)						
Young, Louis L., St. Joseph, Mo. Potato-harvester	518,770	Apr. 24	2317	575	67	467
Young, Marcellus H., and J. M. Mathews, Seattle, Wash.; said Mathews assignor to said Young. Extension-table	521,905	June 26	2044	492 493	67	1621
Young, McClintock, Frederick, Md. Corn-busking machine	529,094	Nov. 13	1034	249	69	854
Young, McClintock, Frederick, Md. Brush-machine	530,151	Dec. 4	125	32, 33	69	1238
Young, McClintock, Frederick, Md. Brush-machine	530,152	Dec. 4	126	31, 34	69	1238
Young, S. J. T. (See Wints, Thomas L., assignor.)						
Young, Samuel, assignor of one-third to M. A. Powers, Ontonagon, Mich. Ice-velocipede	526,210	Sept. 18	1550	363 364	68	1458
Young, Simon S., Mount Morris, Ill. Wire fence	521,304	June 12	982	232	67	1388
Young, Tapley W., assignor to D. R. McKee, trustee, Washington, D. C. Electric heater	524,881	Aug. 21	1561	381	68	976
Young, Walter S., assignor of one-half to D. Taylor, Brodhead, Wis. Hammock-support or tent-frame	519,898	May 15	1685	411	67	881
Young, William C., Fort Wayne, Ind. Cutting-tool for granite, &c.	523,095	July 17	1572	395	68	329
Young, William H. (See Shields, William E., assignor.)						
Young, William H., Jr., Philadelphia, Pa. Ratchet mechanism	528,353	Oct. 30	2331	685	69	580
Young, William J., Lynn, Mass. Heel-stiffener machine	519,936	May 15	1744	427 428	67	891
Younger, Joshua M., Sloan, Iowa. Dirt-loading machine	519,753	May 15	1447	349	67	835
Youngquist, August. (See Youngquist, Mehrtens, and Youngquist.)						
Youngquist, Louisa, F. L. N. Mehrtens, and A. Youngquist, Milwaukee, Wis. Ash- sifter	517,636	Apr. 3	364	86	67	71
Youngren, Peter L., Oakland, Cal. Continuous kiln	517,637	Apr. 3	365	86, 87	67	71
Yount, Silas F., Chicago, Ill. Syringe	523,174	Aug. 28	2107	512	68	1089
Yountz, James F., Mountville, Pa. Land-roller	524,536	Aug. 14	981	241	68	857
Zabikian, Gabriel, London, England. Steam-generator	518,016	Apr. 10	1002	251	67	201
Zahringer, Frank X., and J. B. Spady, Bell Air, Mo. Saw-set	522,869	July 10	1181	294	68	239

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Zanardo, Antonio, New York, N. Y. Stone-carving machine	518,640	Apr. 24	2079	{ 518 519 }	67	425
Zanardo, Giovanni B. (See Russo, Mario, assignor.)						
Zang, William F. (See Figgins, Joseph F., assignor.)						
Zanger, Theodor, assignor of six-sevenths to J. F. Walther, F. Schotte, F. G. Gorenflo, C. Fuchslocher, J. Schaal, and H. Held, Erie, Pa. Rotary water-meter	515,726	Feb. 27	2879	719	66	1441
Zastrow, George W., Baltimore, Md. Hydraulic crane	514,251	Feb. 6	481	118	66	943
Zedler, Friedrich, Cuero, Tex. Apparatus for the treatment of cotton	520,285	May 22	2364	574	67	1019
Zehner, Charles. (See Zehner, John and C.)						
Zehner, John and C., Bellevue, Ohio. Preserving meats	512,786	Jan. 16	1783	.....	66	364
Zeigler, Charles E., et al. (See Wilson, John H., assignor.)						
Zeigler, Milton I., et al. (See Wilson, John H., assignor.)						
Zeiser, John, St. Louis, Mo., and F. A. Leeman, Batavia, N. Y. Fastening device	521,861	June 26	1961	473	67	1604
Zeiss, Firm of Carl. (See Rudolph and Näther, assignors.)						
Zeller, Arthur L., St. Louis, Mo. Skirt-elevator	523,455	Oct. 30	3015	728	69	613
Zeller, Bernhard, and H. Crager, New York, N. Y. Combined skirt and trousers	521,998	June 26	2238	537	67	1655
Zeller, Gustave O., Rahway, N. J. Manufacturing pyroxylin solvents and their products	518,386	Apr. 17	1659	.....	67	336
Zeller, Gustave O., Rahway, N. J. Manufacturing pyroxylin solvents and their products	518,387	Apr. 17	1659	.....	67	336
Zeller, Gustave O., Rahway, N. J. Manufacturing solvents of pyroxylin and their products	518,388	Apr. 17	1660	.....	67	336
Zellers, William H., Philadelphia, Pa. Knitting-machine	521,069	June 5	567	{ 133 134 }	67	1299
Zeltmacher, George E., assignor to T. Zeltmacher, New York, N. Y. Belt	513,448	Jan. 23	2520	699	66	637
Zeltmacher, Tillie. (See Zeltmacher, George E., assignor.)						
Zempler, Alfred, Vienna, Austria-Hungary. Counterweight for suspended lamps	529,054	Nov. 13	963	228	69	841
Zempler, Alfred, Vienna, Austria-Hungary. Canopy for counterweight drop-lights	529,055	Nov. 13	965	228	69	841
Zender, Cender, Berlin, Germany. Shawl-strap	516,420	Mar. 13	1127	268	66	1678
Zenker, Charles F. (See Borgfeldt, Nicholas H., assignor.)						
Zennier, Martin, Säckingen, Germany. Slide-window	518,303	Apr. 17	1490	{ 373 374 }	67	305
Zerbe, William H., Jr., Brooklyn, N. Y. Switch-operating mechanism	525,041	Aug. 28	1859	{ 454 455 }	68	1047
Zerfas, Joseph, New York, N. Y. Frame for door-awnings	522,817	July 10	1116	277	68	226
Zertuche, Ruben, Saltillo, Mexico. Anchor for vessels	513,855	Jan. 30	3540	872	66	802
Zertuche, Ruben, Saltillo, Mexico. Vessel	513,856	Jan. 30	3541	{ 872 873 }	66	802
Zickermann, Fritz, assignor to Siemens & Halske, Berlin, Germany. Electrical transformer	529,152	Nov. 13	1127	273	69	871
Ziegler, Alfred A. (See Ziegler, Jacob O., assignor.)						
Ziegler, Frank P., Milwaukee, Wis. Thill-coupling	519,489	May 8	995	241	67	739
Ziegler, George H., assignor to MacKellar, Smiths & Jordan Company, Philadelphia, Pa. Type-casting machine	523,255	July 17	1879	{ 472 473 }	68	384
Ziegler, George H., Philadelphia, Pa., assignor to American Type Founders Company, Newark, N. J. Type-casting machine	523,256	July 17	1883	473	68	385
Ziegler, George H., Philadelphia, Pa., assignor to American Type Founders Company, Newark, N. J. Type-casting machine	523,301	July 17	1951	491	68	397
Ziegler, Henry M., et al. (See Cabot, John A., assignor.)						
Ziegler, Henry Z., and A. I. Wood, Philadelphia, Pa. Dust-brush	528,754	Nov. 6	406	98	69	726
Ziegler, Jacob O., assignor of one-half to A. A. Ziegler, Boston, Mass. Telephone-switch	523,613	July 24	2466	625	68	510
Ziegler, John G., assignor to Relay Manufacturing Company, Reading, Pa. Bicycle	527,135	Oct. 9	751	184	69	154
Ziegler, John J., Jr., Ardmore, Pa. Garment-hook	525,642	Sept. 4	532	128	68	1250
Ziegler, Victor de, and C. Hager, Luxemburg, Germany. Instrument for ascertaining distances	513,377	Jan. 23	2730	663	66	615
Ziegler, William F., Lincoln, Kans. Corn-harvester	522,094	June 26	2383	573	67	1623
Ziegler, William H., et al. (See Reed, Franklin M., assignor.)						
Ziellenbach, Johann W., Crefeld, Germany. Animal-securing device	523,840	Nov. 6	588	139	69	753
Zies, Charles, Baltimore, Md. Pump-valve	520,349	May 22	2473	600	67	1040
Zietzke, Wilhelm A., assignor of one-third to W. F. Davis, Bozeman, Mont. Sash-fastener	514,532	Feb. 13	928	235	66	1045
Zimmer, Frederick W., Rochester, N. Y. Vehicle	518,983	May 1	77	20	67	550
Zimmerman, August H., Milwaukee, Wis. Cold-air-draft regulator for furnaces	518,984	May 1	78	20	67	550
Zimmerman, Casper, Castlewood, S. D. Portable wind-brake for thrashing-machines	516,560	Mar. 13	1371	326	66	1723
Zimmerman, Casper, Chicago, Ill. Mail or express car	518,477	Apr. 17	1809	448	67	363
Zimmerman, Frank M., Detroit, Mich. Insulating trolley-wire support	524,232	Aug. 7	447	105	68	743
Zimmerman, Harry, Frederick, Md. Shutter-bower	520,471	May 29	2670	645	67	1093
Zimmerman, Henry X., La Salle, Ill. Car-wheel	512,855	Jan. 16	1914	452	66	389
Zimmerman, Israel, St. Louis, Mo. Metal folding chicken-coop	529,230	Nov. 13	1267	305	69	895
Zimmerman, John, assignor to National Key-Opening Can Company, Chicago, Ill. Key-opening sheet-metal vessel and making same	529,542	Nov. 20	1850	440	69	1022
Zimmerman, John, and J. K. Underdown, assignors to National Key-Opening Can Company, Chicago, Ill. Sheet-metal vessel	515,103	Feb. 20	1841	464	66	1231
Zimmerman, John, and J. K. Underdown, assignors to National Key-Opening Can Company, Chicago, Ill. Roller-die for forming weakened lines in sheet metal	515,270	Feb. 20	2129	529	66	1385
Zimmerman, John E., Trinidad, Colo. Bridge-signal	520,286	May 22	2366	574	67	1020
Zimmern & Co., Henry. (See Landgraf, Carl H., assignor.)						
Zinn, Adolph. (See Vierling, Joseph, assignor.)						
Zinn, Jens, Copenhagen, Denmark. Combination cooking-vessel	515,457	Feb. 27	2451	607	66	1357
Zinzen, Fritz. (See Habersang and Zinzen.)						
Zipp, John. (See Scanlan and Zipp.)						
Zipp, John. (See Scanlan, Keifel, and Zipp.)						
Zipp, John, New Albany, Ind. Fire basket or grate	530,571	Dec. 11	894	220	69	1394
Zitko, Charles, St. Louis, Mo. Radiator	528,058	Oct. 23	2323	560	69	474
Zoeller, Matthias, assignor of one-half to G. Plitt, Baltimore, Md. Means for deodorizing and sweetening bread in ovens	523,846	July 31	2925	{ 728 729 }	68	607
Zoll, Robert, Berlin, Germany. Shutter-bower	516,148	Mar. 6	667	156	66	1577
Zoller, Charles, New York, N. Y. Friction-wheel	512,787	Jan. 16	1784	424	66	364
Zollinger, Henry C. (See Zollinger and Pattee, assignors.)						
Zollinger, Louis C., and W. H. Pattee, assignors of one-third to H. C. Zollinger, Fort Wayne, Ind. Joint for railway-rails	526,212	Sept. 18	1553	364	68	1458
Zorn, Frederick, New York, N. Y. Safety-guard for cars	529,095	Nov. 13	1035	{ 249 250 }	69	854
Zorn, John, assignor of one-third to D. Wallace, Detroit, Mich. Painter's stripping-tool	514,984	Feb. 20	1662	416	66	1199
Zorn, John, and F. G. Luchesi, New York, N. Y. Packing compound for thermocauters	529,056	Nov. 13	966	69	842

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Zortman, William, Allegheny, and G. R. Ward, assignors of one-third to C. A. Balph, Pittsburg, Pa. Brick-machine	516,883	Mar. 20	1904	{ 449 450	{ 66	1840
Zschech, Gustavus H., and W. H. Sumbling, Chicago, Ill. Steam vacuum-pump	526,067	Sept. 18	1297	{ 300 301	{ 68	1412
Zuck, James C., <i>et al.</i> (See Staniford, Frank C., assignor.)	523,500	July 24	2307	581	68	476
Zuck, John G., Cleveland, Ohio. Steel square	530,153	Dec. 4	129	34	69	1239
Zucker, Samuel, New York, N. Y. Tooth-brush	513,962	Jan. 30	3697	911	66	833
Zwahlen, Ami, Philadelphia, Pa. Pantograph for engraving and ornamenting watchcases.	518,203	Apr. 10	1326	331	67	250
Zweig, John, assignor of one-half to H. Venison, Bellaire, Ohio. Miner's flask	517,992	Apr. 10	965	240	67	194
Zwermann, Theodor, Baltimore, Md. Enameling sheet-iron ware	513,605	Jan. 30	3135	770	66	725
Zwicker, Henry, Stoughton, Wis. Tobacco-booking table	512,352	Jan. 9	1026	251	66	205
Zwibel, Anton, Burlington, Wis. Windmill	518,361	Apr. 17	1616	398	67	328
Zwietusch, Otto, Milwaukee, Wis. Method of and apparatus for the recovery of waste gaseous products in breweries	522,334	July 3	272	71, 72	63	55
Zwigard, Frank, and R. Schwörer, Newark, N. J. Wine-press						

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A. M. Collins Manufacturing Company. (See Odgers, John P., assignor.)				
Adams, Frank S., assignor to Brown, Durrell & Co., Boston, Mass. Spool-rack.....	23,869	Dec. 11	69	1498
Adams, Walter S., Philadelphia, Pa. Axle-box frame.....	23,273	May 15	67	922
Adams, Walter S., assignor to J. A. Brill, Philadelphia, Pa. Truck side bar.....	23,088	Feb. 27	66	1444
Adler, Julius, Jersey City, N. J., assignor of one-half to A. Lendry, New York, N. Y. Cape.....	23,094	Mar. 6	66	1585
Allcard, Harry, Sheffield, England. Head for lifting-jacks.....	23,475	July 17	68	406
American Lithographic Company. (See George, Samuel D., assignor.)				
American Type Founders Company. (See Ihlenburg, Herman, assignor.)				
Ames, Charles L., Oak Park, Ill. Rim for bicycle-wheels.....	23,015	Jan. 23	66	646
Ancient Order of Foresters of America. (See Finck, William C., assignor.)				
Andersen, Johan M., Boston, Mass. Hanger.....	23,244	May 1	67	670
Andersen, Johan M., Boston, Mass. Hanger.....	23,245	May 1	67	670
Andersen, Johan M., Boston, Mass. Hanger.....	23,246	May 1	67	670
Andrews, George J. (See Andrews, John, assignor.)				
Andrews, John, assignor to G. J. Andrews, Marlborough, Mass. Sash-lift.....	23,728	Oct. 23	69	01
Ansonia O. & C. Company. (See Larkin, Hugh, assignor.)				
Art Stove Company. (See Cope, George W., assignor.)				
Ash, Benjamin T., Binghamton, N. Y. Spoon.....	23,689	Oct. 16	69	360
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Lamp-burner.....	23,404	June 26	67	1715
Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Globe or shade holder.....	23,893	Dec. 25	69	1763
Anb�, Reuben W., Brooklyn, N. Y. Molding for picture-frames, &c.....	23,903	Dec. 25	69	1765
Anb� & Son, R. W. (See Lippi, Lawrence, assignor.)				
Aumonier, Frederic, London, England. Wall-paper.....	23,004	Jan. 9	66	308
Aumonier, Frederic, London, England. Wall-paper.....	23,005	Jan. 9	66	309
Aumonier, Frederic, London, England. Wall or ceiling paper.....	23,116	Mar. 13	66	1750
Avery, Frederick C., Chicago, Ill. Bicycle-frame.....	23,482	July 17	68	408
Aylesworth, George M., Collingwood, Canada. Buckle.....	23,343	June 12	67	1439
Babbitt, Seth W., Meriden, Conn. Metal vessel.....	23,241	May 1	67	670
Babbitt, Seth W., Meriden, Conn. Box.....	23,312	May 29	67	1183
Bach, William H., St. Paul, Minn. Badge.....	23,830	Dec. 4	69	1351
Bachler, Christian F., Philadelphia, Pa. Radiator.....	23,631	Sept. 4	68	1270
Bailey, Charles A., assignor to J. & E. Stevens Company, Cromwell, Conn. Range.....	23,707	Oct. 16	69	363
Bailey, Frederick I., Allston, Mass. Stopper-plug.....	23,091	Feb. 27	66	1445
Balfour, Minnie T., Augusta, Ill. Card-holder.....	23,006	Jan. 16	66	451
Bark, Birger, Chicago, Ill., assignor to Brunswick-Balke-Collender Company, of Ohio. Counter.....	23,509	July 24	68	528
Bark, Birger, Chicago, Ill., assignor to Brunswick-Balke-Collender Company, of Ohio. Counter.....	23,510	July 24	68	528
Bark, Birger, Chicago, Ill., assignor to Brunswick-Balke-Collender Company, of Ohio. Bar-fixture.....	23,511	July 24	68	528
Bark, Birger, Chicago, Ill., assignor to Brunswick-Balke-Collender Company, of Ohio. Bar-fixture.....	23,512	July 24	68	528
Barker, Charles A., assignor to Craig-Reynolds Foundry Company, Dayton, Ohio. Furnace-front.....	23,430	July 3	68	135
Barlow, James, and J. M. Pope, Trenton, N. J. Pitcher, &c.....	23,353	June 12	67	1440
Barnes, William H., assignor to Sill Stove Works, Rochester, N. Y. Stove or range.....	23,687	Oct. 9	69	237
Barney, Earl, Schenectady, N. Y. Brooder.....	23,168	Apr. 3	67	133
Barnhart Bros. & Spindler. (See Heyer, Charles E., assignor.)				
Barnhart Bros. & Spindler. (See West, James, assignor.)				
Barthman, Frederic W., Jr., Brooklyn, N. Y. Box.....	23,445	July 10	68	274
Barthman, Frederic W., Jr., Brooklyn, N. Y. Box.....	23,297	Dec. 25	69	1764
Bastian, John H., New Britain, Conn. Holdback.....	23,474	July 17	68	406
Bearse, Ephraim L., Brooklyn, N. Y. Burner.....	23,035	Feb. 6	66	996
Becchio, Edoardo. (See Vian and Becchio.)				
Becchio, Vittorio. (See Vian and Becchio.)				
Bedichimer, Isaac, Philadelphia, Pa. Badge.....	23,780	Nov. 13	69	936
Belleville Stove Company. (See Wipfler, Charles, assignor.)				
Bender, Adam, Philadelphia, Pa. Emery-wheel dresser.....	23,323	May 29	67	1185
Bennett, Fred A., Sheboygan, Wis. Chair-seat frame.....	23,905	Dec. 25	69	1765
Bennett & Peck Heating and Ventilating Company, of Ohio. (See Ensign, William W., assignor.)				
Bensinger, Moses, assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Billiard-table.....	23,221	Apr. 24	67	522
Bensinger, Moses, assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Covering-plate for billiard-table cushion-rail bolts.....	23,670	Oct. 2	69	115
Benskin, Frederick G., Canton, Ohio. Molder's fillet.....	23,626	Sept. 4	68	1269
Bergen, James D., Hartford, assignor to J. D. Bergen Company, Meriden, Conn. Glass vessel.....	23,316	May 29	67	1183
Bergen, James D., Hartford, assignor to J. D. Bergen Company, Meriden, Conn. Glass vessel.....	23,317	May 29	67	1184
Berger Manufacturing Company. (See Langenbach, Edward A., assignor.)				
Bergstrom Brothers & Co. (See Bergstrom, George O., assignor.)				
Bergstrom, George O., assignor to Bergstrom Brothers & Co., Neenah, Wis. Heating-stove.....	23,911	Dec. 25	69	1766
Bernhard, Morris, Buffalo, N. Y. Tassel.....	23,453	July 17	68	405
Berry, Henry, Shelton, assignor to Derby Silver Company, Birmingham, Conn. Bowl or similar article.....	23,313	May 29	67	1183
Berry, Henry, Shelton, assignor to Derby Silver Company, Birmingham, Conn. Bowl or similar article.....	23,314	May 29	67	1183
Berry, Henry, Shelton, assignor to Derby Silver Company, Birmingham, Conn. Bowl or similar article.....	23,315	May 29	67	1183
Bevan, Warren C., Malaga, Spain. Bottle.....	23,550	Aug. 7	68	764
Bier, Nicholas, Salem, Ore. Last.....	23,733	Oct. 23	69	502

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Bievesh, Mathias. (See Merkels and Bievesh.)				
Bigelow Carpet Company. (See Brown, Walter B., assignor.)				
Bigelow Carpet Company. (See Brown, William F., assignor.)				
Bigelow Carpet Company. (See Chambellan, Pierre C., assignor.)				
Bigelow Carpet Company. (See Cochrane, John R., assignor.)				
Birge & Sons, M. H. (See Booze, Charles, assignor.)				
Birge & Sons, M. H. (See Clémencef, Louis, assignor.)				
Birge & Sons, M. H. (See Crownfield, Herman F. D., assignor.)				
Birge & Sons, M. H. (See Hatch, Mary G., assignor.)				
Birge & Sons, M. H. (See Ketterer, Gustav, assignor.)				
Birge & Sons, M. H. (See Mattheue, Henry B., assignor.)				
Birge & Sons, M. H. (See Poujol, Scipion, assignor.)				
Birge & Sons, M. H. (See Pyle, Katharine, assignor.)				
Birge & Sons, M. H. (See Truitt, Ivy M. L., assignor.)				
Bloore, William, Burslem, England. Cover-dish.....	23,251	May 8	67	805
Boal, Stanhope, Piqua, Ohio. Stove.....	23,780	Nov. 6	69	723
Bodenstab, John, New York, N. Y. Kettle.....	23,638	Sept. 11	68	1385
Boeck, Charles H., assignor to Novelty Manufacturing Company, Jackson, Mich. Oil-stove.....	23,480	July 17	68	407
Boeckl, William, Philadelphia, Pa. Float-ball.....	21,499	July 24	68	526
Bogert, Matthew J., Demarest, N. J. Drug-box.....	23,415	July 3	68	134
Booth, James, West New Brighton, assignor to White, Potter & Paige Manufacturing Co., Brooklyn, N. Y. Molding for picture-frames.....	23,519	July 31	68	649
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,565	Aug. 21	68	1013
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,566	Aug. 21	68	1014
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,567	Aug. 21	68	1014
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,568	Aug. 21	68	1014
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,569	Aug. 21	68	1014
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,570	Aug. 21	68	1014
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,571	Aug. 21	68	1014
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,572	Aug. 21	68	1015
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,573	Aug. 21	68	1015
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,586	Aug. 28	68	1133
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,587	Aug. 28	68	1134
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,588	Aug. 28	68	1134
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,589	Aug. 28	68	1134
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,590	Aug. 28	68	1134
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,591	Aug. 28	68	1134
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,592	Aug. 28	68	1134
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,593	Aug. 28	68	1135
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,594	Aug. 28	68	1135
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,595	Aug. 28	68	1135
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,596	Aug. 28	68	1135
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,597	Aug. 28	68	1135
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,598	Aug. 28	68	1135
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,599	Aug. 28	68	1136
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,600	Aug. 28	68	1136
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,601	Aug. 28	68	1136
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,602	Aug. 28	68	1136
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,603	Aug. 28	68	1136
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,604	Aug. 28	68	1136
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,605	Aug. 28	68	1137
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,606	Aug. 28	68	1137
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,607	Aug. 28	68	1137
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,616	Sept. 4	68	1267
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,617	Sept. 4	68	1267
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,618	Sept. 4	68	1267
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,619	Sept. 4	68	1268
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,620	Sept. 4	68	1268
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,621	Sept. 4	68	1268
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,633	Sept. 11	68	1384
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,634	Sept. 11	68	1384
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,635	Sept. 11	68	1384
Booze, Charles, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,636	Sept. 11	68	1384
Bourne, William E., Lyons, N. Y. Paper-receptacle.....	23,449	July 10	68	274
Boyd, George R., Cairo, Ill. Siding-board.....	23,106	Mar. 6	66	1587
Brand, Harrison, assignor to A. M. Ross & Co., Ilion, N. Y. Garden-trowel.....	23,226	Apr. 24	67	523
Brandenstein, Julia, Brooklyn, N. Y. Hat.....	23,653	Sept. 25	68	1622
Brandt, Andrew G., Scranton, Pa. Whirligig.....	23,444	July 10	68	274
Bretz, Jacob S., New York, N. Y. Wheel-hub.....	23,742	Oct. 23	69	504
Bridge & Beach Manufacturing Company. (See Nellis, Emery D., assignor.)				
Bridgeport Brass Company. (See Rhind, Frank, assignor.)				
Brigham, Frederick L., Syracuse, N. Y. Badge.....	23,007	Jan. 16	66	451
Brill, George M., Philadelphia, Pa. Seat end for car-seats.....	23,803	Nov. 13	69	937
Brill, John A. (See Adams, Walter S., assignor.)				
Brill, John A., Philadelphia, Pa. Axle-box frame.....	23,087	Feb. 27	66	1444
Brinckmann, Robert, Michigan City, Ind. Display-case.....	23,685	Oct. 9	69	237
Britsch, Friedrich, New York, N. Y. Galloon.....	23,133	Mar. 20	66	1886
Brown, Durrell & Co. (See Adams, Frank S., assignor.)				
Brown, Stephen J., Troy, N. Y. Ventilator.....	23,030	Jan. 30	66	840
Brown, Wallace C., Nantucket, Mass. Clock-case.....	23,026	Jan. 30	66	839
Brown, Walter B., Newark, N. J., assignor to Bigelow Carpet Company, New York, N. Y. Carpet.....	23,484	July 17	68	408
Brown, William F., Newark, N. J., assignor to Bigelow Carpet Company, New York, N. Y. Carpet.....	23,207	Apr. 24	67	520
Brown, William F., Newark, N. J., assignor to Bigelow Carpet Company, New York, N. Y. Carpet.....	23,486	July 24	68	523
Brown, William F., assignor to Bigelow Carpet Company, Newark, N. J. Carpet.....	23,261	May 15	67	919
Brownsville Plate Glass Company. (See Cuddon, Charles W., assignor.)				
Brunswick-Balke-Collender Company. (See Bark, Birger, assignor.)				
Brunswick-Balke-Collender Company. (See Bensinger, Moses, assignor.)				
Brunswick-Balke-Collender Company. (See Peeps, William H., assignor.)				
Bruent, Henry, Baltimore, Md. Ewer, &c.....	23,354	June 12	67	1440
Bryan, Willie B., I. M. Moore, and T. Meade, New York, N. Y. Coupon.....	23,397	June 26	67	1714
Buckley, Thomas H., Worcester, Mass. Lunch-wagon body.....	22,011	Jan. 23	66	645
Burgess, Charles M., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Shelf-bracket.....	23,731	Oct. 23	69	502
Buschner, Carl F., New York, N. Y. Plush ball.....	23,547	Aug. 7	68	764

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Bull, Jeremiah N., Springfield, Mass. Halter-loop.....	23,064	Feb. 13	66	1161
Byram, Frank A., Philadelphia, Pa. Trimming.....	23,825	Dec. 25	69	1762
Byram, Frank A., Philadelphia, Pa. Trimming.....	23,886	Dec. 25	69	1762
Cabot, Harry H., Bristol, assignor to Kent & Stanley Company, Providence, R. I. Spoon.....	23,194	Apr. 17	67	391
Cabot, Harry H., Bristol, assignor to Kent & Stanley Company, Providence, R. I. Spoon.....	23,195	Apr. 17	67	391
Callan, Thomas R., Odell, Nebr. Tool-rack.....	23,104	Mar. 6	66	1587
Callard, Frederick, Brooklyn, N. Y. Cako.....	23,875	Dec. 11	69	1499
Calm, Maximillian. (See Lloyd, George, assignor.)				
Campbell, Ernest W., assignor to Campbell-Metcalf Silver Company, Providence, R. I. Spoon....	23,097	Mar. 6	66	1526
Campbell, Ernest W., Providence, R. I., assignor to Holmes & Edwards Silver Company, Bridge- port, Conn. Handle for spoons, &c.....	23,263	May 15	67	919
Campbell, Malcolm, Woonsocket, R. I. Bolster-rail.....	23,554	Aug. 7	68	765
Campbell-Metcalf Silver Company. (See Campbell, Ernest W., assignor.)				
Candee, Edward D., Brooklyn, N. Y., assignor to Nashawannuck Manufacturing Company, East- hampton, Mass. Clasp for garment-supporters.....	23,332	June 5	67	1323
Capurro, William N., Hot Springs, Ark. Spoon.....	23,651	Sept. 25	68	1622
Carbo-Alumina Metal Company. (See Stark, Frank G., assignor.)				
Carhart, George W. (See King and Carhart.)				
Carr, James. (See Ennis and Carr.)				
Carver, Horace P., Racine, Wis. Sad-iron.....	23,067	Feb. 13	66	1161
Casad, Curtis S. and E. G., Silverton, Colo. Picture-frame.....	23,637	Sept. 11	68	1385
Casad, Edgar G. (See Casad, Curtis S. and E. G.)				
Caven, Frank H., Philadelphia, Pa. Fringe.....	23,000	Jan. 2	66	166
Caven, Frank H., Philadelphia, Pa. Fringe.....	23,001	Jan. 2	66	166
Cederstrom, Robert, St. Louis, Mo. Measuring-vessel.....	23,383	June 19	67	1564
Chadwick, Alice A. (See Chadwick, Charles N., assignor.)				
Chadwick, Charles N., assignor to A. A. Chadwick, Brooklyn, N. Y. Waist.....	23,033	Feb. 6	66	995
Chadwick, John H., Philadelphia, Pa., assignor to E. F. Mason and G. N. Schofield. Woven fabric.....	23,055	Feb. 13	66	1160
Chadwick, John H., Philadelphia, Pa., assignor to Schofield, Mason & Co. Carpet.....	23,556	Aug. 14	68	907
Challiner, Charles, Manchester, England. Metallic rim for wheels.....	23,704	Oct. 16	69	362
Chambellan, Pierre C., West Hoboken, N. J., assignor to Bigelow Carpet Company, New York, N. Y. Carpet.....	23,714	Oct. 23	69	499
Chambellan, Pierre C., West Hoboken, N. J., assignor to Bigelow Carpet Company, New York, N. Y. Carpet.....	23,715	Oct. 23	69	499
Chouteau, Pierre, St. Louis, Mo. Pistol-grip engine.....	23,679	Oct. 2	69	116
Clapp, Alfred C. (See Davidson, Harry, assignor.)				
Claudy, Christian, Birmingham, Ala. Monument.....	23,365	June 12	67	1442
Clawson, Clement C., Newark, N. J. Case for coin-receivers.....	23,154	Mar. 27	66	2046
Clawson, Clement C., Newark, N. J. Case for coin-receivers.....	23,155	Mar. 27	66	2046
Clémencet, Louis, West Hoboken, N. J., assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-pa- per.....	23,662	Oct. 2	69	114
Clémencet, Louis, West Hoboken, N. J., assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-pa- per.....	23,663	Oct. 2	69	114
Clémencet, Louis, West Hoboken, N. J., assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-pa- per.....	23,664	Oct. 2	69	114
Clémencet, Louis, West Hoboken, N. J., assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-pa- per.....	23,665	Oct. 2	69	114
Clémencet, Louis, West Hoboken, N. J., assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-pa- per.....	23,666	Oct. 2	69	114
Clulee, John, assignor to Simpson, Hall, Miller & Company, Wallingford, Conn. Handle for spoons, &c.....	23,171	Apr. 10	67	263
Cochrane, John R., Newark, N. J., assignor to Bigelow Carpet Company, New York, N. Y. Carpet.....	23,487	July 24	68	524
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, &c.....	23,311	May 29	67	1183
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Spoon, &c....	23,717	Oct. 23	69	500
Culby, Caleb K., Brooklyn, N. Y. Watch-dial.....	23,464	July 17	68	405
Cole, Edward Z., Michigan City, Ind. Sprayer or irrigator.....	23,503	July 24	68	527
Collins, Frank W., Cortland, N. Y. Stove.....	23,584	Aug. 21	68	1017
Collins, Frank W., Cortland, N. Y. Stove.....	23,708	Oct. 16	69	363
Commerford, John, Columbus, Ohio. Car-body.....	23,206	Apr. 17	67	395
Conant's Sons, F. H. (See Rich, George W., assignor.)				
Conking, Addison, Plainfield, N. J. Umbrella or cane head.....	23,790	Nov. 13	69	936
Consolidated Car-Heating Company. (See McElroy, James F., assignor.)				
Cook, Harry, St. Louis, Mo. Clothes-line reel.....	23,876	Dec. 11	69	1499
Coops, Thomas J., Osage City, Kans. Tip for clothes-tongs.....	23,562	Aug. 14	68	908
Cooper, Reita M., David City, Nebr. Holder for knives, forks, &c.....	23,131	Mar. 20	66	1886
Co-Operative Foundry Company. (See King and Kennedy, assignors.)				
Cope, George W., assignor to Art Stove Company, Detroit, Mich. Oil heating-stove.....	23,090	Feb. 27	66	1445
Cornwall, Frederick R., assignor to F. R. Rice Mercantile Cigar Company, St. Louis, Mo. Glass jar.....	23,871	Dec. 11	69	1499
Corporation of J. H. Johnston & Company. (See Heustis, Louise L., assignor.)				
Covert, James C., West Troy, N. Y. Harness-hook.....	23,802	Nov. 13	69	937
Cox, Palmer, New York, N. Y. Handkerchief, &c.....	23,093	Mar. 6	66	1585
Cox, Palmer, New York, N. Y. Handkerchief.....	23,433	July 10	68	271
Cox, Palmer, New York, N. Y. Handkerchief.....	23,434	July 10	68	272
Cox, Palmer, New York, N. Y. Handkerchief.....	23,435	July 10	68	272
Cox, Palmer, New York, N. Y. Handkerchief.....	23,436	July 10	68	272
Cox, Palmer, New York, N. Y. Handkerchief.....	23,437	July 10	68	272
Craig-Reynolds Foundry Company. (See Barker, Charles A., assignor.)				
Crane, William F. D., East Orange, N. J. Trolley-wire clip.....	23,243	May 1	67	670
Crawford, William K., Boston, Mass. Shell for stand-pipe nozzles.....	23,524	July 31	68	650
Crowell, Gilbert L., Jr., Arlington, N. J. Handle for spoons, &c.....	23,718	Oct. 23	69	500
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Silver- smith's stock.....	23,327	June 5	67	1223
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Silver- smith's stock.....	23,328	June 5	67	1323
Crownfield, Herman F. D., New York, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,649	Sept. 25	68	1622
Crownfield, Herman F. D., New York, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,650	Sept. 25	68	1622
Cryer, Arthur, assignor to Lewis & Brother, Philadelphia, Pa. Bar-fixture.....	23,142	Mar. 20	66	1887
Cuddon, Charles W., assignor to Brownsville Plate Glass Company, New Kensington, Pa. Sheet- glass.....	23,467	July 17	68	405
Cutran, John T., Brooklyn, assignor to Tiffany & Co., New York, N. Y. Knife.....	23,034	Feb. 6	66	995
Cutran, John T., Brooklyn, assignor to Tiffany & Co., New York, N. Y. Vessel.....	23,558	Aug. 14	68	907
Currie, Robert. (See Mockford, Arthur, assignor.)				
Curtis, George E., Philadelphia, Pa. Holding-block for bicycle-clips.....	23,160	Mar. 27	66	2047

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Curtis, Wallace B., and G. M. Donnelly, Pomeroy, Ohio. Lamp-shade.....	22,996	Jan. 2	66	165
Curtiss, Homer A., Meriden, Conn. Ferrule.....	23,344	June 12	67	1439
Curtiss, Homer A., assignor to Meriden Cutlery Company, Meriden, Conn. Cap for knives or forks.....	23,345	June 12	67	1439
Dangler, Charles I., and H. Ruppel, assignors to Dangler Stove and Manufacturing Company, Cleveland, Ohio. Air-heater, &c.....	23,277	May 15	67	922
Dangler Stove and Manufacturing Company. (See Dangler and Ruppel, assignors.).....				
Dann, Isaac N., New Haven, Conn. Chair.....	23,008	Jan. 16	66	451
David, David F., New York, N. Y. Bottle.....	23,274	May 15	67	921
Davidson, Harry, assignor of one-half to A. C. Clapp, New York, N. Y. Hook.....	23,656	Sept. 25	68	1623
Davies, Benjamin, Brooklyn, assignor to L. Straus & Sons, New York, N. Y. Ornamentation of glass vessels.....	23,252	May 8	67	865
Davies, Benjamin, Brooklyn, assignor to L. Straus & Sons, New York, N. Y. Ornamentation of glass vessels.....	23,253	May 8	67	865
Davies, Benjamin, Brooklyn, assignor to L. Straus & Sons, New York, N. Y. Ornamentation of glass vessels.....	23,254	May 8	67	866
Davis, Jared G., Lee, Mass. Feed-trough.....	23,396	June 19	67	1566
Davis, Othello P. (See Ingalls, Charles L., assignor.).....				
Davison, Joseph K., Philadelphia, Pa. Badge.....	23,279	May 22	67	1057
Dawson, Henry G. and W. R., Chicago, Ill. Fireplace.....	23,908	Dec. 25	69	1765
Dawson, Henry G. and W. R., Chicago, Ill. Fireplace.....	23,909	Dec. 25	69	1766
Dawson, Henry G. and W. R., Chicago, Ill. Fireplace.....	23,910	Dec. 25	69	1766
Dawson, William R. (See Dawson, Henry G. and W. R.).....				
Day, John, New York, N. Y. Stair-carpet fastener.....	23,153	Mar. 27	66	2046
Day, John, New York, N. Y. Stair-carpet fastener.....	23,159	Mar. 27	66	2047
De Long, Oscar A., New York, N. Y. Button and thread card.....	23,134	Mar. 26	66	1826
Derby Silver Company. (See Derby, Henry, assignor.).....				
Dewey, Mark W., Syracuse, N. Y. Electric-heater case.....	23,528	July 31	68	651
Dexter, James H., Boston, Me. Display-board.....	23,814	Nov. 13	69	939
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating and Lighting Company, of New Jersey. Reflector.....	23,560	Aug. 14	68	968
Dominick & Hafl. (See Crowell, Gilbert L., Jr., assignor.).....				
Donnelly, George M. (See Curtis and Donnelly.).....				
Dorfinger & Sons, C. (See O'Connor, James J., assignor.).....				
Dorrance, Charles F., Portland, Oreg. Badge.....	23,788	Nov. 13	69	936
Doulton & Co., Henry. (See Slater, John, assignor.).....				
Driggs, George A., Waterbury, Conn. Display-stand.....	23,735	Oct. 23	69	502
Dryfoos, Alphons, New York, N. Y. Bottle.....	23,240	May 1	67	670
Du Brul, Napoleon, Cincinnati, Ohio. Hand-lever.....	23,581	Aug. 21	68	1016
Du Brul, Napoleon, Cincinnati, Ohio. Hand-lever.....	23,680	Oct. 2	69	116
Du Brul, Napoleon, Cincinnati, Ohio. Frame for cigar-bunching machines.....	23,702	Oct. 16	69	362
Du Brul, Napoleon, Cincinnati, Ohio. Frame for cigar-bunching machines.....	23,703	Oct. 16	69	362
Duchemin, Zephiren, Haverhill, Mass. Hammer.....	23,169	Apr. 3	67	133
Dudley, Beverley R., Richmond, Va. Whirligig-wheel.....	23,059	Feb. 27	66	1444
Durand, Wallace, Newark, N. J. Spoon.....	23,119	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,120	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,121	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,122	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,123	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,124	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,125	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,126	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,127	Mar. 26	66	1885
Durand, Wallace, Newark, N. J. Spoon.....	23,128	Mar. 26	66	1886
Durand, Wallace, Newark, N. J. Spoon.....	23,129	Mar. 26	66	1886
Durand, Wallace, Newark, N. J. Spoon.....	23,130	Mar. 26	66	1886
Durand, Wallace, Newark, N. J. Spoon.....	23,236	May 1	67	669
Durand, Wallace, Newark, N. J. Watchcase.....	23,237	May 1	67	669
Durand, Wallace, Newark, N. J. Watchcase.....	23,264	May 15	67	920
Durand, Wallace, Newark, N. J. Watchcase.....	23,265	May 15	67	920
Durand, Wallace, Newark, N. J. Watchcase.....	23,266	May 15	67	920
Durand, Wallace, Newark, N. J. Watchcase.....	23,267	May 15	67	920
Durand, Wallace, Newark, N. J. Watchcase.....	23,268	May 15	67	920
Durand, Wallace, Newark, N. J. Watchcase.....	23,269	May 15	67	920
Durand, Wallace, Newark, N. J. Watchcase.....	23,270	May 15	67	921
Durand, Wallace, Newark, N. J. Watchcase.....	23,271	May 15	67	921
Durand, Wallace, Newark, N. J. Watchcase.....	23,272	May 15	67	921
Durand, Wallace, Newark, N. J. Watchcase.....	23,273	May 15	67	921
Durand, Wallace, Newark, N. J. Brooch.....	23,368	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,369	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,370	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,371	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,372	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,373	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,374	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,375	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,376	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,377	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,378	June 19	67	1563
Durand, Wallace, Newark, N. J. Brooch.....	23,398	June 26	67	1714
Durand, Wallace, Newark, N. J. Ring.....	23,535	Aug. 7	68	762
Durand, Wallace, Newark, N. J. Ring.....	23,536	Aug. 7	68	762
Durand, Wallace, Newark, N. J. Ring.....	23,537	Aug. 7	68	763
Durand, Wallace, Newark, N. J. Ring.....	23,538	Aug. 7	68	763
Durand, Wallace, Newark, N. J. Ring.....	23,539	Aug. 7	68	763
Durand, Wallace, Newark, N. J. Ring.....	23,540	Aug. 7	68	763
Durand, Wallace, Newark, N. J. Ring.....	23,541	Aug. 7	68	763
Durand, Wallace, Newark, N. J. Ring.....	23,542	Aug. 7	68	763
Durand, Wallace, Newark, N. J. Ring.....	23,543	Aug. 7	68	763
Durand, Wallace, Newark, N. J. Ring.....	23,544	Aug. 7	68	763
Durand, Wallace, Newark, N. J. Ring.....	23,545	Aug. 7	69	763
Durand, Wallace, Newark, N. J. Ring.....	23,546	Aug. 7	68	763
Durbur, Augustus H., Brooklyn, N. Y. Molding for picture-frames.....	23,152	Mar. 27	66	2045
Durbur, Augustus H., Brooklyn, N. Y. Molding for picture-frames.....	23,153	Mar. 27	66	2046

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Durgin, William B. (See Mueller, George A., assignor.)				
Eagle Pencil Company. (See McIntyre, Frank, assignor.)				
Ecaubert, Frederic, Brooklyn, N. Y. Metal ring	23,684	Oct. 9	69	236
Edos, Edwin L., Plymouth, Mass. Ornamental box	23,102	Mar. 6	66	1586
Edgars, Frederick J., Brooklyn, N. Y. Box	23,848	Dec. 4	69	1354
Edgars, Frederick J., Brooklyn, N. Y. Box	23,849	Dec. 4	69	1354
Edgars, Frederick J., Brooklyn, N. Y. Box	23,850	Dec. 4	69	1354
Edgars, Frederick J., Brooklyn, N. Y. Box	23,851	Dec. 4	69	1354
Edgars, Frederick J., Brooklyn, N. Y. Wooden box	23,896	Dec. 25	69	1764
Edward Miller & Company. (See Hornberger, Louis, assignor.)				
Edwards, Edgar A., Cincinnati, Ohio. Headlight-case	23,754	Oct. 30	69	635
Elliot, Ottenheimer & Elliot. (See Fischer, Emil, assignor.)				
Ellis, Franklin, Troy, assignor to Pettibone Manufacturing Company, Cincinnati, Ohio. Badge	23,816	Nov. 27	69	1204
Elmer, George H., Baltimore, Md. Advertising-breastpin	23,109	Mar. 13	66	1749
Elsworth, Joseph, Wellsborough, Pa. Kitchen-cabinet	23,613	Aug. 28	68	1138
Emerson, Ralph W., Rockford, Ill. Table-washstand	23,222	Apr. 24	67	522
Ennis, Benjamin F., and J. Carr, Syracuse, N. Y. Cigar-clipping case	23,140	Mar. 20	66	1887
Ensign, William W., Cincinnati, Ohio, assignor to Bennett & Peck Heating and Ventilating Company, of Ohio. Rack	23,200	Apr. 17	67	394
Evans, Arthur K., Toronto, Canada. Rope-grip	23,448	July 10	68	274
Evans, George, Detroit, Mich. Prism-reflector for area-gratings	21,804	Nov. 13	69	938
Ewing, Edwin C., A. Glass, and W. S. Grafton, assignors to Wheeling Corrugating Company, Wheeling, W. Va. Metallic finishing-plate	23,044	Feb. 6	66	997
F. R. Rice Mercantile Cigar Company. (See Cornwall, Frederick R., assignor.)				
Faber, Eberhard, West New Brighton, N. Y. Eraser	23,473	July 17	68	406
Faber, Lothar W., Port Richmond, N. Y. Eraser	23,411	July 3	63	134
Fay, Herman W., and R. J. Schueler, St. Louis, Mo. Bottle	23,100	Mar. 6	66	1586
Fearn, William A., Columbus, Ohio. Sash-ribbon buckle	23,032	Feb. 6	66	995
Felix, Charles D., Shamokin, Pa. Miner's lamp	23,526	July 31	68	650
Felt, George H., New York, N. Y. Mosaic pattern	23,059	Feb. 13	66	1160
Fenn, Amos A., Leavenworth, Kans. Column	23,678	Oct. 2	69	116
Ferris, Henry L., Harvard, Ill. Tank heating-stove	23,811	Nov. 13	69	939
Field, Henry W., Columbus, Ohio. Sword-hilt	23,820	Nov. 27	69	1204
Finck, William C., Elizabeth, N. J., assignor to Ancient Order of Foresters of America, Brooklyn, N. Y. Badge	23,342	June 12	67	1439
Finnican, Patrick. (See Walsh, Keegan, and Finnican.)				
Fischer, Emil, assignor to Elliot, Ottenheimer & Elliot, Baltimore, Md. Cigar-bunch	23,229	Apr. 24	67	523
Fischer, Jacob, assignor to Indiana Stove Works, Evansville, Ind. Air-grate	23,080	Feb. 20	66	1313
Fisher, Edwin, New York, N. Y., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,440	July 10	68	273
Flanagan, James I., Philadelphia, Pa. Handle-bracket	23,037	Feb. 6	66	996
Flesch, Julius A., Chicago, Ill. Cooler or refrigerator	23,179	Apr. 10	67	263
Fletcher, John K., Nottingham, England. Lace fabric	23,230	May 1	67	668
Fonderville, August J., West Hoboken, N. J. Lamp-shade	23,177	Apr. 10	67	263
Foster, Alonzo M., Cabot, Vt. Spout	23,392	June 19	67	1566
Fountain, James H., and H. S. Parker, St. Louis, Mo. Ironing-board	23,738	Oct. 23	69	503
Fox, Clarence W., Saugus, Mass. Handle for ice-picks	23,138	Mar. 20	66	1887
Fox, Edward B., Bryn Mawr, Pa. Type-border	23,411	June 12	67	1439
Franzheim, Charles W., Wheeling, W. Va. Covered dish	23,748	Oct. 30	69	634
Frazer, Fred, Syracuse, N. Y. Hame-top	23,147	Mar. 20	66	1888
Freeman, Benjamin B., Cambridge, Mass. Spoon	23,098	Mar. 6	66	1586
Fuller, Charles D., Kalamazoo, Mich. Rubbing-plate for wash-boards	23,507	July 24	63	527
Gardner, Clement E., Hempstead, N. Y. Bonbon	23,691	Oct. 16	69	360
Gardner, Herbert, Colorado Springs, Colo. Game-board	23,036	Feb. 6	66	996
Gavin, John H., assignor to L. Wolf Manufacturing Company, Chicago, Ill. Bracket	23,730	Oct. 23	69	502
Gavin, John H., assignor to L. Wolf Manufacturing Company, Chicago, Ill. Washbowl and slab	23,805	Nov. 13	69	938
Gavin, John H., assignor to L. Wolf Manufacturing Company, Chicago, Ill. Washbowl and slab	23,806	Nov. 13	69	938
Gavin, John H., assignor to L. Wolf Manufacturing Company, Chicago, Ill. Bracket	23,873	Dec. 11	69	1499
Gavin, John H., assignor to L. Wolf Manufacturing Company, Chicago, Ill. Washbowl and slab	23,894	Dec. 24	69	1763
Gavin, John H., assignor to L. Wolf Manufacturing Company, Chicago, Ill. Washbowl and slab	23,895	Dec. 25	69	1763
Gedney, Charles F., Brooklyn, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,847	Dec. 4	69	1353
Gedney, Charles F., Brooklyn, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,878	Dec. 18	69	1636
Gednoy, Charles F., Brooklyn, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,879	Dec. 18	69	1636
Gem City Stove Manufacturing Company. (See Kaemper, Folkert, Jr., assignor.)				
George, Samuel D., Brooklyn, assignor to American Lithographic Company, New York, N. Y. Ornamental pattern for cigar-boxes	23,669	Oct. 2	69	115
Gibbs, Lewis, Canton, Ohio. Post-hole digger	23,072	Feb. 13	66	1162
Gibbs, Lewis, Canton, Ohio. Lawn-rake	23,660	Sept. 25	68	1623
Giles, John H., Amsterdam, N. Y. Knit shirt	23,187	Apr. 10	67	265
Gist, John A. L., Curia, Ark., assignor of one-half to R. T. Kerr, Randolph, Tex. Fire-screen	23,337	June 5	67	1324
Glass, Alexander. (See Ewing, Glass, and Grafton.)				
Gobeille, Joseph L., Cleveland, Ohio, assignor to Syracuse Stove Works, Syracuse, N. Y. Stove	23,737	Oct. 23	69	503
Gobeille, Joseph L., Cleveland, Ohio, assignor to I. A., F. L., and H. R. Sheppard, Philadelphia, Pa. Cook-stove	23,826	Nov. 27	69	1205
Golde, Robert, Brooklyn, N. Y., assignor to Royal Metal Manufacturing Company, of New York. Picture-frame	23,183	Apr. 10	67	264
Golde, Robert, Brooklyn, N. Y., assignor to Royal Metal Manufacturing Company, of New York. Picture-frame	23,184	Apr. 10	67	264
Golde, Robert, Brooklyn, assignor to Royal Metal Manufacturing Company, New York, N. Y. Picture-frame	23,249	May 8	67	804
Gooding, Josiah C., Covington, Ind. Desk and seat	23,248	May 1	67	671
Gorham Manufacturing Company. (See Codman, William C., assignor.)				
Gould Coupler Company. (See Richards, Willard F., assignor.)				
Graff, Charles, New York, N. Y. Back for brushes, &c.	23,151	Mar. 27	66	2045
Grafton, William S. (See Ewing, Glass, and Grafton.)				
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Metallic finishing-plate	23,045	Feb. 6	66	997
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Metallic finishing-plate	23,046	Feb. 6	66	997
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Metallic molding	23,047	Feb. 6	66	998
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Metallic molding	23,048	Feb. 6	66	998
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Cross-piece for metallic molding	23,049	Feb. 6	66	998

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Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Metallic molding	23,050	Feb. 6	66	998
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Corner-piece for metallic molding	23,051	Feb. 6	66	998
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Corner-piece for metallic ceilings	23,052	Feb. 6	66	998
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. T-piece for metallic ceilings	23,053	Feb. 6	66	998
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Miter-piece for metallic ceilings	23,054	Feb. 6	66	999
Grafton, William S., assignor to Wheeling Corrugating Company, Wheeling, W. Va. Center-piece for metallic ceilings	23,081	Feb. 20	66	1303
Graham, Robert S., and W. B. Savell, Newark, N. J. Key-top	23,197	Apr. 17	67	394
Graham, Robert S., and W. B. Savell, Newark, N. J. Key-top	23,198	Apr. 17	67	394
Gray, William, Hartford, Conn. Transmitter-post for telephones	23,825	Nov. 27	69	1205
Greene, George F., Providence, R. I. Scarf-pin	23,755	Nov. 6	69	780
Greene, George F., Providence, R. I. Scarf-pin	23,756	Nov. 6	69	780
Greene, George F., Providence, R. I. Scarf-pin	23,757	Nov. 6	69	780
Greene, George F., Providence, R. I. Scarf-pin	23,758	Nov. 6	69	780
Greene, George F., Providence, R. I. Scarf-pin	23,759	Nov. 6	69	780
Greene, George F., Providence, R. I. Scarf-pin	23,760	Nov. 6	69	780
Greene, George F., Providence, R. I. Scarf-pin	23,827	Dec. 4	69	1351
Greene, George F., Providence, R. I. Scarf-pin	23,828	Dec. 4	69	1351
Greene, George F., Providence, R. I. Scarf-pin	23,829	Dec. 4	69	1351
Grevstad, Nicolay, Chicago, Ill. Campaign souvenir	23,644	Sept. 18	68	1514
Grey, William S., Bristol, Conn. Lamp-stand	23,329	June 5	67	1323
Griggs, Edward W. (See Wiswell, Jacob C., assignor.)				
Grinden, William J., assignor to J. H. Williams & Co., Brooklyn, N. Y. Bicycle-crank	23,640	Sept. 11	68	1355
Gulden, Charles, New York, N. Y. Packing-jar	23,382	June 19	67	1564
Gulden, Charles, New York, N. Y. Bottle	23,822	Dec. 25	69	1763
Ginsel, Theodor, New York, N. Y. Banner-holder	23,258	May 8	67	806
H. L. Judd & Company. (See Von Grave, Lothar, assignor.)				
Halliday, Arthur L., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,782	Nov. 6	69	753
Halliday, Arthur L., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,789	Dec. 25	69	1763
Hamilton, Francis C., Syracuse, N. Y. Spoon	23,462	July 17	68	405
Hanke, August, Chicago, Ill. Lemon-squeezer handle	23,403	June 26	67	1714
Harrah, Philip J., Bloomfield, Ind. Holder for fire-kindlers	23,355	June 12	67	1440
Harris, William H. (See Yost, Francis H., assignor.)				
Harsh, George M., Baltimore, Md. Tablet of chewing-gum	23,096	Mar. 6	66	1586
Hart, Hubert C., Unionville, Conn. Knife or fork handle	23,861	Dec. 11	69	1497
Hart, William H., New Britain, Conn. Strap-hinge	23,257	May 8	67	806
Hart, William H., New Britain, Conn. Strap-hinge	23,402	June 26	67	1714
Hart, William H., New Britain, Conn. Strap-hinge	23,447	July 10	68	274
Hart, William H., New Britain, Conn. Hinge-leaf	23,477	July 17	68	407
Hart, William H., New Britain, Conn. Hinge-leaf	23,506	July 24	68	527
Hatch, Mary G., New York, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper	23,667	Oct. 2	69	114
Haviland, Charles E., Limoges, France. Dish	23,113	Mar. 13	66	1749
Haviland, Charles E., Limoges, France. Plate or like article	23,136	Mar. 20	66	1886
Haviland, Charles E., Limoges, France. Cover-dish	23,149	Mar. 27	66	2045
Haviland, Charles E., Limoges, France. Plate or similar article	23,900	Dec. 25	69	1764
Haviland, Theodore, Ambazac, France. Covered dish	23,773	Nov. 6	69	752
Haviland, Theodore, Ambazac, France. Covered dish	23,774	Nov. 6	69	752
Haviland, Theodore, Ambazac, France. Covered dish	23,775	Nov. 6	69	752
Hayden, Hiram W., assignor to Holmes, Booth & Haydens, Waterbury, Conn. Flame-spreader for lamps	23,809	Nov. 13	69	938
Hayden, William B., New York, N. Y. Tile	23,391	June 19	67	1565
Haynes, David F., Baltimore, Md. Ewer or jug	23,726	Oct. 23	69	501
Heffner, William E., Canton, Ohio. Display-rack	23,450	July 10	68	274
Heinz, Henry J., Pittsburg, Pa. Advertising-check	23,657	Sept. 25	68	1623
Hensel, George F., Philadelphia, Pa. Handle for shade-pulls	23,713	Oct. 23	69	499
Herhold, Frederick H., Chicago, Ill. Step-ladder chair	23,739	Oct. 23	69	503
Herman, Adolph E., Terre Haute, Ind. Wagon-body	23,564	Aug. 14	68	908
Hermann, Isaac, New York, N. Y. Exhibition-stand	23,079	Feb. 20	66	1303
Hero Fruit Jar Company. (See Schrader, Charles F., assignor.)				
Hertlein, Christopher E., New York, N. Y. Trimming	23,325	June 5	67	1322
Heustis, Louise L., assignor to Corporation of J. H. Johnston & Company, New York, N. Y. Book-mark	23,060	Feb. 13	66	1160
Heyer, Charles E., assignor to Barnhart Bros. & Spindler, Chicago, Ill. Font of printing-type	22,993	Jan. 2	66	166
Hill, William R., assignor to Premier Egg Cup Company, Syracuse, N. Y. Egg-cup	23,898	Dec. 25	69	1764
Hirschfeld, Henry A., Westfield, Mass. Coffin-plate	23,043	Feb. 6	66	997
Hoffman, Edward C. (See Hoffmann and Hoffman.)				
Hoffmann, Jacob, and E. C. Hoffman, Cleveland, Ohio. Clothes-line holder	23,321	May 29	67	1184
Holland, Elias C. (See Muther, Woodward, and Holland.)				
Holmes, Booth & Haydens. (See Hayden, Hiram W., assignor.)				
Holmes & Edwards Silver Company. (See Campbell, Ernest W., assignor.)				
Holmes & Edwards Silver Company. (See Rock, John H., assignor.)				
Holmes & Edwards Silver Company. (See Smith, Sidney, assignor.)				
Homer, George E., Boston, Mass. Spoon	23,379	June 19	67	1563
Hopson, John, Jr., New London, assignor to Waterbury Clock Company, Waterbury, Conn. Clock-case	23,696	Oct. 16	69	361
Hopson, John, Jr., New London, assignor to Waterbury Clock Company, Waterbury, Conn. Clock-case	23,697	Oct. 16	69	361
Hopson, John, Jr., New London, assignor to Waterbury Clock Company, Waterbury, Conn. Clock-case	23,698	Oct. 16	69	361
Hopson, John, Jr., New London, assignor to Waterbury Clock Company, Waterbury, Conn. Clock-case	23,723	Oct. 23	69	501
Hopson, John, Jr., New London, assignor to Waterbury Clock Company, Waterbury, Conn. Clock-case	23,724	Oct. 23	69	501
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,233	May 1	67	669
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,441	July 10	68	273
Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,442	July 10	68	273

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Horan, Henry, East Orange, N. J., assignor to Lowell Manufacturing Company, Boston, Mass. Car-pet-border, &c.	23,455	July 17	62	408
Hornberger, Louis, assignor to Edward Miller & Company, Meriden, Conn. Lamp-burner	23,722	Oct. 23	69	501
Horner, Samuel E., Swarthmore, Pa. Sink	23,632	Sept. 4	68	1270
Horton, Louis R., assignor to J. B. & S. M. Knowles Company, Providence, R. I. Spoon or similar article	23,494	July 24	68	525
Horton, Louis R., assignor to J. B. & S. M. Knowles Company, Providence, R. I. Handle for spoons, &c.	23,719	Oct. 23	69	500
Hoskins, Frederick, Birmingham, England. Bedstead	23,710	Oct. 16	69	363
Hotchkiss, Charles A., assignor to Ives & Williams, Bridgeport, Conn. Toy-cap exploder	23,356	June 12	67	1440
Howard Sterling Company. (See Wientge, Charles C., assignor.)				
Howe, Edwin J., assignor of one-half to G. R. Howe, Newark, N. J. Communion-service tray	23,901	Dec. 25	69	1764
Howe, George R. (See Howe, Edwin J., assignor.)				
Hubbell, Harvey, Bridgeport, Conn. Electric-wire fastening	23,322	May 29	67	1185
Hullhorst, William G., assignor to Ransom & Randolph Company, Toledo, Ohio. Dental cabinet	23,189	Apr. 10	67	265
Hullhorst, William G., assignor to Ransom & Randolph Company, Toledo, Ohio. Dental cabinet	23,852	Dec. 4	69	1354
Huss, William C., Cincinnati, Ohio. Wall-fixture for counters	23,454	July 10	68	275
Huss, William C., Cincinnati, Ohio. Wall-fixture for counters	23,455	July 10	68	276
Huss, William C., Cincinnati, Ohio. Wall-fixture for counters	23,553	Aug. 7	68	765
Huss, William C., Cincinnati, Ohio. Sales-counter	23,706	Oct. 16	69	362
Hutchins, William O., Providence, R. I. Finger-ring	23,210	Apr. 24	67	520
Ihlenburg, Herman, Philadelphia, Pa., assignor to American Type Founders Company, Newark, N. J. Font of printing-type	23,164	Apr. 3	67	132
Indiana Stove Works. (See Fischer, Jacob, assignor.)				
Ingalls, Charles L., assignor of one-half to O. P. Davis, Lowell, Mass. Drinking-cup	23,682	Oct. 9	69	236
Ives & Williams. (See Hotchkiss, Charles A., assignor.)				
Ivins, Eugene, Philadelphia, Pa. Cracker or similar article	23,078	Feb. 20	66	1303
J. B. & S. M. Knowles Company. (See Horton, Louis R., assignor.)				
J. D. Bergen Company. (See Bergen, James D., assignor.)				
J. & E. Stevens Company. (See Bailey, Charles A., assignor.)				
J. L. Mott Iron Works. (See Peet, William C., assignor.)				
Jackson, Austin F., assignor to Reed & Barton Corporation, Taunton, Mass. Handle for spoons, &c.	23,020	Jan. 30	66	838
Jackson, Austin F., assignor to Reed & Barton Corporation, Taunton, Mass. Handle for spoons, &c.	23,515	July 31	68	648
Jacobs, Jacob, New York, N. Y. Frame for vault-lights	23,082	Feb. 20	66	1303
Jacobs, Jacob, New York, N. Y. Lens for vault-lights	23,083	Feb. 20	66	1303
Jacobs, Winthrop L., East Orange, N. J., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,231	May 1	67	668
Jansen, Edward, New York, N. Y. Fancy box	23,330	June 5	67	1323
Johnson, Abbott L., Muncie, Ind. Railway bulletin-board	23,918	Dec. 25	69	1767
Johnson, Robert M., Hainesport, N. J. Preserve-jar cap	23,144	Mar. 20	66	1838
Juhring, William L., Brooklyn, N. Y. Bottle	23,352	June 12	67	1440
Juhring, William L., Brooklyn, N. Y. Bottle	23,350	June 19	67	1564
Kaempfen, Folkert, Jr., assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Stove or range	23,612	Aug. 28	68	1138
Kahn & Bros., F. & L. (See Kahn, Lazard, assignor.)				
Kahn & Bros., F. & L. (See Kahn and Speck, assignors.)				
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Stove-door	23,014	Jan. 23	66	646
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Gas-burner	23,504	July 24	68	527
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Gas-stove	23,505	July 24	68	527
Kahn, Lazard, assignor to F. & L. Kahn & Bros., Hamilton, Ohio. Gas-stove	23,854	Dec. 4	69	1355
Kahn, Lazard, and A. Speck, assignors to F. & L. Kahn & Bros., Hamilton, Ohio. Stove	23,553	Aug. 7	68	765
Kahn, Leopold, New York, N. Y. Ornamental metallic wrapper	23,115	Mar. 13	66	1750
Kaiser, Alexander, Stockton, Cal. Souvenir spoon	23,019	Jan. 30	66	837
Kaltenbach, Edward J., St. Louis, Mo. Bonbon	23,646	Sept. 18	68	1514
Kampfe, Frederick, R., and O., Brooklyn, N. Y. Razor-strop	23,401	June 26	67	1714
Kampfe, Frederick, R., and O., Brooklyn, N. Y. Razor-strop	23,576	Aug. 21	68	1015
Kampfe, Frederick, R., and O., Brooklyn, N. Y. Razor-handle	23,699	Oct. 16	69	361
Kampfe, Otto. (See Kampfe, Frederick, R., and O.)				
Kampfe, Richard. (See Kampfe, Frederick, R., and O.)				
Keegan, William. (See Walsh, Keegan, and Finucan.)				
Keen & Hagerty. (See Wagandt, Charles L., assignor.)				
Keep, James M., assignor to Tower Manufacturing and Novelty Company, New York, N. Y. Pen-rack stand	23,677	Oct. 2	69	116
Keil & Son, Francis. (See Sotscheck, Charles, assignor.)				
Keller, John F., St. Louis, Mo. Badge	23,884	Dec. 25	69	1762
Kellogg, William P., Troy, N. Y. Curry comb	23,872	Dec. 11	69	1499
Kelsey, William A., Meriden, Conn. Photograph-mount	23,022	Jan. 30	66	838
Kelsh, Charles. (See Lipper and Kelsh.)				
Kemp, Edward M., Rhinelander, Wis. Screen-door	23,338	June 5	67	1325
Kemp, William A., San Francisco, Cal. Parlor-arch	23,453	July 10	68	275
Kennedy, Thomas R. (See King and Kennedy.)				
Kent & Stanley Company. (See Cabot, Harry H., assignor.)				
Kerngood, Herman, Baltimore, Md., assignor to Perfect Clasp Company of Baltimore City, of Mary-land. Hasp for garment-fasteners	23,255	May 8	67	806
Kerngood, Herman, Baltimore, Md., assignor to Perfect Clasp Company of Baltimore City, of Mary-land. Hook for garment-fasteners	23,256	May 8	67	806
Kerr, Robert T. (See Gist, John A. L., assignor.)				
Ketchum, Oliver W., Toronto, Canada. Sheet-metal pulley	23,476	July 17	68	407
Ketterer, Gustav, Philadelphia, Pa., assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper	23,694	Oct. 16	69	360
Kiefer, Frederick E., Bridgeport, Conn. Paper-holder	23,446	July 10	68	274
Kinder, Emory J. (See Quinn, John F., assignor.)				
King, Edward J., and T. R. Kennedy, assignors to Co-Operative Foundry Company, Rochester, N. Y. Stove	23,611	Aug. 28	68	1138
King, John B., and G. W. Carhart, Bath Beach, N. Y. Case for cash fare-registers	23,563	Aug. 14	68	903
Kinne, Alfred A., Minneapolis, Minn. Oil-stove	23,709	Oct. 16	69	363
Kjellstrom, Mary S., New York, N. Y. Fabric-renovator	23,711	Oct. 23	69	499
Koenig, Henry L., Boles, Mo. Meat-trimming knife	23,659	Sept. 25	68	1623
Kohman, William A. (See Pottenger and Kohman.)				
Krátký, Matej, Hemingford, Nebr. Follower for culinary vessels	23,012	Jan. 23	66	646
Krouse, Andrew. (See Mosman, Charles F., assignor.)				
Krouse, Andrew. (See Siebert, George C., assignor.)				
Krouse, Andrew, Bridgeport, Conn. Cane-handle	23,039	Feb. 6	66	996
Krouse, Andrew, Bridgeport, Conn. Support for pincushions	23,040	Feb. 6	66	996

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Krouse, Andrew, Bridgeport, Conn. Support for pincushions.	23,041	Feb. 6	66	996
Krouse, Charles C., Williamsport, Pa. Buckle.	23,721	Oct. 23	69	500
L. Wolf Manufacturing Company. (See Gavin, John H., assignor.)				
Lambert, William F., Millbrae, Cal. Picture-frame.	23,284	May 22	67	1057
Landau, Maurice, and A. Traxler, St. Louis, Mo. Shoe-stand.	23,192	Apr. 10	67	266
Lane, George (See Lane, John G. and G.)				
Lane, John G. and G., Poughkeepsie, N. Y. Nut.	23,917	Dec. 25	69	1767
Langenbach, Edward A., Canton, Ohio. Metallic finishing-plate.	23,224	Apr. 24	67	523
Langenbach, Edward A., Canton, Ohio. Metal finishing-plate.	23,283	May 22	67	1057
Langenbach, Edward A., Canton, Ohio. Metallic finishing-plate.	23,585	Aug. 21	68	1017
Langenbach, Edward A., assignor to Berger Manufacturing Company, Canton, Ohio. Finishing-plate.	23,358	June 12	67	1441
Langenbach, Edward A., assignor to Berger Manufacturing Company, Canton, Ohio. Finishing-plate.	23,513	July 24	68	528
Larkin, Hugh, assignor to Ansonia O. & C. Company, Ansonia, Conn. Suspender-end.	23,500	July 24	68	526
Larsen, Ivert, Chicago, Ill. Badge.	23,493	July 24	68	525
Law, John G. (See Vantier, John J., assignor.)				
Lawrence, George W., Eau Claire, Wis. Removable side flue for refrigerators.	23,105	Mar. 6	66	1587
Lawson, Henry S., West Bergen, N. J., assignor to C. Whitman & Co., New York, N. Y. Ornamental fabric.	23,887	Dec. 25	69	1762
Lazarus, Augustus A., et al. (See Lipper and Kelch, assignors.)				
Leding, Robert, Washington, D. C. Spoon.	23,010	Jan. 23	66	645
Lee, Carlton H., Boston, Mass. Bottle.	23,399	June 26	67	1714
Lee, James R. (See Torsch and Lee.)				
Leggett, Walter L., Galesburg, Ill. Scraper for kitchen utensils.	23,068	Feb. 13	66	1162
Lendry, Alice. (See Adler, Julius, assignor.)				
Lewis & Brother. (See Cryer, Arthur, assignor.)				
Leyson, John H., Butte, Mont. Badge.	23,021	Jan. 30	66	838
Lichtenberger, William, Savanna, Ill. Pipe-head for chain-pumps.	23,740	Oct. 23	69	503
Liebmann, Rudolph, Allentown, Pa. Picture-frame.	23,468	July 17	68	406
Liebmann, Rudolph, Allentown, Pa. Picture-frame.	23,469	July 17	68	406
Liebmann, Rudolph, Allentown, Pa. Picture-frame.	23,470	July 17	68	406
Liebmann, Rudolph, Allentown, Pa. Picture-frame.	23,609	Aug. 28	68	1137
Liebmann, Rudolph, New York, N. Y. Picture-frame.	23,853	Dec. 4	69	1354
Lindenberg, Charles H., Columbus, Ohio. Sword-scabard.	23,818	Nov. 27	69	1204
Lindenberg, Charles H., Columbus, Ohio. Sword-scabard.	23,819	Nov. 27	69	1204
Lindner, Ernst, New York, N. Y. Key for gas-cocks.	23,225	Apr. 24	67	523
Lines, John, assignor to Seovill Manufacturing Company, Waterbury, Conn. Oil-can.	23,042	Feb. 6	66	997
Lipper, Benjamin, Philadelphia, Pa. Braid.	23,084	Feb. 27	66	1443
Lipper, Benjamin, Philadelphia, Pa. Braid.	23,085	Feb. 27	66	1443
Lipper, Benjamin, and C. Kelsh, assignors to A. A. Lazarus, I. A. Schwarz, and B. Lipper, Philadelphia, Pa. Trimming.	23,431	July 10	68	271
Lipper, Benjamin, and C. Kelsh, assignors to A. A. Lazarus, I. A. Schwarz, and B. Lipper, Philadelphia, Pa. Trimming.	23,432	July 10	68	271
Lipper & Co., M. W. (See Lücke, William, assignor.)				
Lippi, Lawrence, assignor to R. W. Anbé & Son, New York, N. Y. Molding for picture-frames, &c.	23,902	Dec. 25	69	1764
Lippi, Lawrence, assignor to R. W. Anbé & Son, New York, N. Y. Molding for picture-frames, &c.	23,904	Dec. 25	69	1765
Lloyd, George, Brooklyn, assignor to M. Calm, New York, N. Y. Bottle.	23,174	Apr. 10	67	263
Lloyd, John H., Toledo, Ohio. Monument.	23,193	Apr. 10	67	266
Lloyd, Walter J., Peabody, Mass. Brush-handle.	23,749	Oct. 30	69	634
Lockwood, James F., Philadelphia, Pa. Mirror-frame.	23,201	Apr. 17	67	394
Low, Abbot A., Brooklyn, N. Y. Change-holder.	23,532	July 31	68	650
Low, Abbot A., Brooklyn, N. Y. Box.	23,548	Aug. 7	68	764
Lowell Manufacturing Company. (See Fisher, Edwin, assignor.)				
Lowell Manufacturing Company. (See Horan, Henry, assignor.)				
Lowell Manufacturing Company. (See Jacobs, Winthrop L., assignor.)				
Lowell Manufacturing Company. (See Sauer, Emil G., assignor.)				
Lowney, Walter M., assignor to Walter M. Lowney Company, Boston, Mass. Bonbon.	23,400	June 26	67	1714
Lücke, William, assignor to M. W. Lipper & Co., Philadelphia, Pa. Suspender-webbing.	23,712	Oct. 23	69	499
Ludwig, John, Erie, Colo. Holder for toothpicks, &c.	23,150	Mar. 27	66	2045
Maille, Philippe F., Cambridge, Mass. Organ-case.	23,508	July 24	68	527
Macneal, Charles B., assignor to E. Macneal, Philadelphia, Pa. Game-board.	23,025	Jan. 30	66	839
Macneal, Elizabeth. (See Macneal, Charles B., assignor.)				
Maddock Pottery Company. (See May, Charles A., assignor.)				
Magee, Frank A., Wenham, and F. W. Osborne, Ballardvale, assignors to Magee Furnace Company, Boston, Mass. Cooking stove or range.	23,162	Mar. 27	66	2047
Magee Furnace Company. (See Magee and Osborne, assignors.)				
Magee Furnace Company. (See Osborne, Frederick W., assignor.)				
Maillot, John W., assignor to F. M. Whiting & Co., North Attleborough, Mass. Handle for spoons, &c.	23,057	Feb. 13	66	1160
Manly, William M., Chicago, Ill. Twine-holder.	23,521	July 31	68	649
Marchetti, Giulio, Halifax, England. Carpet.	23,362	June 12	67	1441
Marchetti, Giulio, Halifax, England. Carpet.	23,363	June 12	67	1442
Marchetti, Giulio, Halifax, England. Carpet.	23,407	July 3	68	134
Marchetti, Giulio, Halifax, England. Carpet.	23,438	July 10	68	272
Marchetti, Giulio, Halifax, England. Carpet.	23,439	July 10	68	273
Marks, Louis A., New York, N. Y. Woven fabric.	23,791	Nov. 13	69	936
Marks, Louis A., New York, N. Y. Woven fabric.	23,792	Nov. 13	69	936
Marks, Louis A., New York, N. Y. Woven fabric.	23,793	Nov. 13	69	936
Marks, Louis A., New York, N. Y. Woven fabric.	23,794	Nov. 13	69	936
Marks, Louis A., New York, N. Y. Woven fabric.	23,795	Nov. 13	69	936
Marks, Louis A., New York, N. Y. Woven fabric.	23,796	Nov. 13	69	936
Marks, Louis A., New York, N. Y. Woven fabric.	23,797	Nov. 13	69	937
Mason, Edward F., et al. (See Chadwick, John H., assignor.)				
Matthews, Henry B., New York, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.	23,622	Sept. 4	68	1268
Matthews & Willard Manufacturing Company. (See Miller, John C., assignor.)				
Matthews & Willard Manufacturing Company. (See Miller and Schmitz, assignors.)				
May, Charles A., assignor to Maddock Pottery Company, Trenton, N. J. Cover-dish.	23,077	Feb. 20	66	1302
Mayer, Max, New York, N. Y. Display-rack.	23,655	Sept. 25	68	1623
McArthur, Warren, Chicago, Ill. Heating-stove.	23,877	Dec. 11	69	1499
McElroy, James F., Albany, N. Y. Radiator.	23,339	June 5	67	1325
McElroy, James F., Albany, N. Y. Radiator.	23,630	Sept. 4	68	1269
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company, Wheeling, W. Va. Electrical radiator.	23,426	July 3	68	136

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McIntyre, Frank, Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil.....	23,211	Apr. 24	67	520
McIntyre, Frank, Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil.....	23,212	Apr. 24	67	520
McIntyre, Frank, assignor to Eagle Pencil Company, New York, N. Y. Penholder.....	23,501	July 24	68	526
McIntyre, Frank, assignor to Eagle Pencil Company, New York, N. Y. Penholder.....	23,502	July 24	68	526
McKay, Robert, Detroit, Mich. Tool-holder.....	23,658	Sept. 25	68	1623
McLean, John, Brooklyn, N. Y. Arm-chair.....	23,471	July 17	68	476
McLean, John, Brooklyn, N. Y. Settee.....	23,472	July 17	68	406
McNamara, James H., Chicago, Ill. Trunk fastener.....	23,178	Apr. 10	67	263
Meade, Thomas. (See Bryan, Moore, and Meade.)				
Menham, A. A. (See Wood, Frederick H., assignor.)				
Meriden Bronze Company. (See Yokel, Franz, assignor.)				
Meriden Cutlery Company. (See Curtiss, Homer A., assignor.)				
Merkels, John B., and M. Bievess, Chicago, Ill. Combined key-ring and guard.....	23,242	May 1	67	670
Merley, John A., Canton, Ohio. Building-block.....	23,063	Feb. 13	66	1161
Merriman, Frederick J. (See Sears, James A. W., assignor.)				
Merriman, Hugh P., New Berlin, N. Y. Currycomb.....	23,641	Sept. 11	68	1385
Metcalf, W. Howard. (See Mintzer, Harry, assignor.)				
Miles, Alfred S., Brooklyn, N. Y. Hat-brush.....	23,367	June 19	67	1562
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Slab for table-tops.....	23,285	May 22	67	1058
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Slab for table-tops.....	23,286	May 22	67	1058
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Slab for table-tops.....	23,318	May 29	67	1184
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Base for lamps.....	23,672	Oct. 2	69	115
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Base for lamps.....	23,673	Oct. 2	69	115
Miller, John C., assignor to Matthews & Willard Manufacturing Company, Waterbury, Conn. Base for lamps.....	23,674	Oct. 2	69	115
Miller, John C., and E. Schmitz, assignors to Matthews & Willard Manufacturing Company, Waterbury, Conn. Lamp-fount holder.....	23,671	Oct. 2	69	115
Miller, Theodore, Detroit, Mich. Stove.....	23,427	July 3	68	137
Miller, Theodore, Detroit, Mich. Stove.....	23,428	July 3	68	137
Miller, Theodore, Detroit, Mich. Stove.....	23,429	July 3	68	137
Millhiser, Gustavus, Richmond, Va. Tobacco-bag.....	23,414	July 3	68	135
Mintzer, Harry, assignor of one-half to W. H. Metcalf, Philadelphia, Pa. Shutter bower and fastener.....	23,423	July 3	68	136
Mix, Edward H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock-case.....	23,642	Sept. 11	68	1385
Mix, Frank W., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock-case.....	23,686	Oct. 9	69	237
Mofford, Arthur, Westchester, assignor to R. Currie, New York, N. Y. Hoof-pad.....	23,701	Oct. 16	69	361
Moffitt-West Drug Company. (See West, Courtney H., assignor.)				
Moon, Robert G. (See Walker, William, assignor.)				
Moore, Irby M. (See Bryan, Moore, and Meade.)				
Morgan, John B., Philadelphia, Pa. Woven fabric.....	23,835	Dec. 4	69	1352
Morgan, John B., Philadelphia, Pa. Woven fabric.....	23,836	Dec. 4	69	1352
Morgan, John B., Philadelphia, Pa. Woven fabric.....	23,837	Dec. 4	69	1352
Morgan, John B., Philadelphia, Pa. Woven fabric.....	23,838	Dec. 4	69	1352
Morgan, John B., Philadelphia, Pa. Woven fabric.....	23,839	Dec. 4	69	1352
Morgan, John B., Philadelphia, Pa. Woven fabric.....	23,840	Dec. 4	69	1352
Morison, William, Montclair, N. J. Battery-case.....	23,916	Dec. 25	69	1767
Morrow, Andrew J., Philadelphia, Pa. Color-plate.....	23,913	Dec. 25	69	1766
Mosman, Charles F., Bridgeport, Conn. Mirror-frame.....	23,654	Sept. 25	68	1622
Mosman, Charles F., assignor to A. Krouse, Bridgeport, Conn. Picture-frame.....	23,388	June 19	67	1565
Mosman, Charles F., assignor to A. Krouse, Bridgeport, Conn. Picture-frame.....	23,751	Oct. 30	69	634
Mott, Benjamin I., Brooklyn, N. Y. Bottle.....	23,275	May 15	67	921
Mount Washington Glass Company. (See Singleton, Thomas, Jr., assignor.)				
Mueller, George A., assignor to W. B. Durgin, Concord, N. H. Handle for spoons, &c.....	23,170	Apr. 10	67	262
Müller, Josephine, New York, N. Y. Trimming.....	23,746	Oct. 30	69	633
Mulligan, Joseph, Sheffield, England. Ventilator.....	23,029	Jan. 30	66	839
Muther, Lorenz, Oak Park, R. G. Woodward, Waukegan, and E. C. Holland, Austin, assignors to Union Special Sewing Machine Company, Chicago, Ill. Sewing-machine frame.....	23,813	Nov. 13	69	939
Nashawannuck Manufacturing Company. (See Candee, Edward D., assignor.)				
Nathan, Benjamin, New York, N. Y. Boot.....	23,234	May 1	67	669
Neal, James, and F. J. Ziron, Bridgeport, Conn. Picture-frame.....	23,451	July 10	68	275
Neelin, William J., Port Arthur, Ontario, Canada. Fence-post.....	23,741	Oct. 23	69	503
Neil, John B., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug.....	23,781	Nov. 6	69	733
Neil, John B., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet.....	23,783	Nov. 6	69	733
Neil, John B., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug.....	23,767	Dec. 11	69	1498
Nellis, Emery D., assignor to Bridge & Beach Manufacturing Company, St. Louis, Mo. Stove.....	23,070	Feb. 13	66	1162
Nellis, Emery D., assignor to Bridge & Beach Manufacturing Company, St. Louis, Mo. Stove.....	23,071	Feb. 13	66	1162
Nepper, William F., Cincinnati, Ohio. Paving-block.....	23,919	Dec. 25	69	1767
Newell, Augustus, Chicago, Ill. Key for musical instruments.....	23,166	Apr. 3	67	132
Newell, Joseph K. (See Parker, Newell and Turnbull.)				
Nicholson, Samuel T. (See Shaw, Robert B., assignor.)				
Nolley, David D., Wilson, assignor to B. H. Tyson, Raleigh, N. C. Seal-lock hasp.....	23,801	Nov. 13	69	937
Novelty Manufacturing Company. (See Boeck, Charles H., assignor.)				
O'Byrne, William F., Orange, N. J. Mortise-lock case.....	23,779	Nov. 6	69	783
O'Callahan, John, Philadelphia, Pa. Badgo.....	23,463	July 17	68	405
O'Connor, James J., assignor to C. Dorringer & Sons, White Mills, Pa. Glass vessel.....	23,807	Nov. 13	69	938
O'Dwyer, William H., New York, N. Y. Ash-receiver.....	23,110	Mar. 13	66	1749
Oher, George H., Chagrin Falls, Ohio. Sad-iron handle.....	23,525	July 31	68	650
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Photographic-card mount.....	23,518	July 31	68	649
Odgers, John P., assignor to A. M. Collins Manufacturing Company, Philadelphia, Pa. Photographic-card mount.....	23,692	Oct. 16	69	360
Olsson, Per O., Marshall, Minn. Rope-clamp frame.....	23,870	Dec. 11	69	1498
Omwake, John, assignor to United States Printing Company, Cincinnati, Ohio. Back for playing-cards.....	23,135	Mar. 20	66	1886
Omwake, John, assignor to United States Printing Company, Cincinnati, Ohio. Backs of playing-cards.....	23,238	May 1	67	669

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Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Handle for spoons, &c.	23,209	Apr. 24	67	520
Osborne, Charles, assignor to Whiting Manufacturing Company, New York, N. Y. Handle for forks, &c.	23,720	Oct. 23	69	500
Osborne, Frederick. (See Magee and Osborne.)				
Osborne, Frederick W., Ballard Vale, assignor to Magee Furnace Company, Boston, Mass. Base for cooking-stoves.	23,069	Feb. 13	66	1162
Osterman, William J., Richmond, Va. Fork-scraper.	23,173	Apr. 10	67	263
Ostlund, Louis, New London, Minn. Chair.	23,425	July 3	68	136
Packard, James W., Warren, Ohio. Converter-box.	23,143	Mar. 20	66	1887
Pairpoint Manufacturing Company. (See Ratcliff, Frederick, assignor.)				
Pairpoint Manufacturing Company. (See Roscoe, Albert J., assignor.)				
Pairpoint Manufacturing Company. (See Singleton, Thomas, Jr., assignor.)				
Pairpoint Manufacturing Company. (See Thompson, Frederic L., assignor.)				
Palmer, Isaac E., Middletown, Conn. Hammock.	23,302	May 22	67	1059
Palmer, Isaac E., Middletown, Conn. Hammock.	23,303	May 22	67	1059
Palmer, Isaac E., Middletown, Conn. Hammock.	23,304	May 22	67	1060
Palmer, Isaac E., Middletown, Conn. Hammock.	23,305	May 22	67	1060
Palmer, Isaac E., Middletown, Conn. Hammock.	23,306	May 22	67	1060
Palmer, Isaac E., Middletown, Conn. Hammock.	23,307	May 22	67	1060
Palmer, Isaac E., Middletown, Conn. Hammock.	23,308	May 22	67	1060
Palmer, Isaac E., Middletown, Conn. Hammock.	23,309	May 22	67	1060
Palmer, Isaac E., Middletown, Conn. Hammock-hook.	23,349	June 12	67	1439
Palmer, Isaac E., Middletown, Conn. Hammock-hook.	23,350	June 12	67	1439
Park, Thomas J., Rensselaer, Mo. Washer.	23,551	Ang. 7	68	764
Parker, Henry F., New York, N. Y., assignor to H. A. Penrose, New London, Conn. Flying target.	23,027	Jan. 30	66	839
Parker, Henry S. (See Fountain and Parker.)				
Parker, Simon B., J. K. Newell, and J. A. Turnbull, Springfield, Mass. Grave-marker.	23,744	Oct. 23	69	504
Patterson, William J., Ellwood City, Pa. Lamp-chimney.	23,675	Oct. 2	69	116
Payne, Mary C., South Haven, Mich. Dust-pan.	23,676	Oct. 2	69	116
Peabody, Mike, New York, N. Y. Closet-shield.	23,561	Ang. 14	68	908
Peck, Edmund E., Brooklyn, N. Y. Student-chair.	23,066	Feb. 13	66	1161
Peck, Lee, Lansing, Mich. Stove.	23,555	Dec. 4	69	1355
Peeps, William H., assignor to Brunswick-Balke-Collender Company, Cincinnati, Ohio. Back bar.	23,028	Jan. 30	66	839
Peets, William C., assignor to J. L. Mott Iron Works, New York, N. Y. Leg for bath-tubs.	23,351	June 12	67	1440
Peets, Cyrus B., New Haven, Conn. Spoon.	23,099	Mar. 6	66	1586
Pegel, Julius G., assignor to W. T. Smith & Son, Philadelphia, Pa. Woven fabric.	23,187	Nov. 6	69	784
Peirce, John E., Dayton, Ohio. Grocery-cabinet.	23,117	Mar. 13	66	1750
Peirce, John E., and H. I. Shinkle, Dayton, Ohio. Display-cabinet.	23,118	Mar. 13	66	1750
Penrose, Halleck A. (See Parker, Henry F., assignor.)				
Perfect Clasp Company of Baltimore City. (See Kerngood, Herman, assignor.)				
Pernetz, Leopold, New York, N. Y. Pattern or tool for garment-designers.	23,732	Oct. 23	69	502
Perry, William H., Concord, N. H. Monument.	23,228	Apr. 24	67	523
Perry, William H., Concord, N. H. Monument.	23,340	June 5	67	1325
Perry, William H., Concord, N. H. Monument.	23,364	June 12	67	1442
Perry, William H., Concord, N. H. Monument.	23,405	June 26	67	1715
Perry, William H., Concord, N. H. Monument.	23,406	June 26	67	1715
Perry, William H., Concord, N. H. Monument.	23,457	July 10	68	276
Perry, William H., Concord, N. H. Monument.	23,615	Ang. 28	68	1138
Perry, William H., Concord, N. H. Monument.	23,745	Oct. 23	69	504
Pettibone Manufacturing Company. (See Ellis, Franklin, assignor.)				
Phelps, Francis A., Baltimore, Md. Spool-holder box.	23,750	Oct. 30	69	634
Phillips, Winfield B., Fenton, Mich. Screen-door frame.	23,319	May 29	67	1184
Piaget, Louis A., Paterson, N. J. Pickle-fork.	23,860	Dec. 11	69	1497
Pickard, Lizzie, Toronto, Canada. Sink-strainer.	23,199	Apr. 17	67	394
Pitt, Walter H. (See Sittmann and Pitt.)				
Plume & Atwood Manufacturing Company. (See Atwood, Lewis J., assignor.)				
Podbury, Thomas B., Hyde Park, Mass. Handkerchief.	23,798	Nov. 13	69	937
Pope, John M. (See Barlow and Pope.)				
Porro, Richard S., New York, N. Y. Belt-pocket.	23,683	Oct. 9	69	236
Porter, Lausung L., Evanston, Ill. Geometrical block.	23,086	Feb. 27	66	1443
Potteiger, Henry W., and W. A. Kohman, Reading, Pa. Clothes-pounder.	23,357	June 12	67	1441
Poujol, Scipion, New York, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.	23,623	Sept. 4	68	1268
Poujol, Scipion, New York, assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.	23,624	Sept. 4	68	1269
Powers, Patrick, Troy, Pa. Fire-pot for forges.	23,479	July 17	68	407
Pratt, Robert H., Mamaronock, N. Y., assignor to Wheeler Corrugating Company, Wheeling, W. Va. Finishing-plate.	23,915	Dec. 25	69	1767
Premier Egg Cup Company. (See Hill, William R., assignor.)				
Progress Novelty Manufacturing Company. (See Van Denbergh, Henry T., assignor.)				
Putnam, William H., Rome, N. Y. Alphabet for sign-letters.	23,533	Aug. 7	68	762
Pyle, Katharine, Wilmington, Del., assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.	23,815	Nov. 20	69	1064
Quimby, William E., Orange, N. J. Screw.	23,336	June 5	67	1324
Quinn, John F., Cohoes, N. Y., assignor of one-half to E. J. Kinder, Boston, Mass. Shirt.	23,095	Mar. 6	66	1586
Rader, Frances, Prescott, Wis. Lamp-heater.	23,736	Oct. 23	69	503
Randall, Silas H., Wyoming, Ohio. Bracket.	23,223	Apr. 24	67	522
Ransom & Randolph Company. (See Hullhorst, William G., assignor.)				
Ratcliff, Frederick, assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Tray.	23,114	Mar. 13	66	1750
Ratcliff, Frederick, assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Pronged standard.	23,182	Apr. 10	67	264
Redgrave, Montague, Jersey City, N. J. Musical instrument.	23,239	May 1	67	669
Redon, Martial, Limoges, France. Covered dish.	23,213	Apr. 24	67	520
Redon, Martial, Limoges, France. Cup.	23,280	May 22	67	1057
Redon, Martial, Limoges, France. Cup.	23,281	May 22	67	1057
Reed & Barton Corporation. (See Jackson, Austin F., assignor.)				
Remington, John O., Hingham, Mass. Shade-tassel.	23,259	May 15	67	919
Rhind, Frank, Meriden, assignor to Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lantern.	23,582	Ang. 21	68	1016
Rhodes, George E., Shreveport, La. Watch-charm, &c.	23,857	Dec. 11	69	1497
Rich, George W., assignor to F. H. Conant's Sons, Camden, N. Y. Chair-scat.	23,452	July 10	68	275
Richards, Willard F., Buffalo, N. Y. Threshold-plate.	23,390	June 19	67	1565
Richards, Willard F., Buffalo, assignor to Gould Conpler Company, New York, N. Y. Threshold-plate.	23,705	Oct. 16	69	362
Rieman & Dawson. (See Robinson, Henry J., assignor.)				
Robinson, Henry J., assignor to Rieman & Dawson, Washington, D. C. Spoon, &c.	23,747	Oct. 30	69	633

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Rock, John H., assignor to Holmee & Edwards Silver Company, Bridgeport, Conn. Handle for spoons, &c	23,108	Mar. 13	66	1749
Rockwell, George, Meriden, assignor to Rogers & Brother, Waterbury, Conn. Handle for spoons, &c	23,172	Apr. 10	67	263
Rockwell, George, Meriden, assignor to Rogers & Brother, Waterbury, Conn. Spoon	23,196	Apr. 17	67	394
Roessle, Marcus C., Washington, D. C. Body for coffee or tea pots	23,822	Dec. 18	69	1636
Rogers, Arthur G., assignor to C. Rogers & Bros., Meriden, Conn. Spoon	23,652	Sept. 25	68	1622
Rogers & Bros., C. (See Rogers, Arthur G., assignor.)				
Rogers & Brother. (See Rockwell, George, assignor.)				
Roscoe, Albert J., assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Box	23,191	Apr. 10	67	265
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug or carpet	23,031	Jan. 30	66	840
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug	23,056	Feb. 13	66	1160
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug	23,075	Feb. 20	66	1302
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,092	Mar. 6	66	1585
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,262	May 15	67	919
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,532	Aug. 7	68	762
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,784	Nov. 6	69	784
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,785	Nov. 6	69	784
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,786	Nov. 6	69	784
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,843	Dec. 4	69	1353
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,844	Dec. 4	69	1353
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,845	Dec. 4	69	1353
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,846	Dec. 4	69	1353
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,863	Dec. 11	69	1497
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,864	Dec. 11	69	1498
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug	23,865	Dec. 11	69	1498
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug	23,866	Dec. 11	69	1498
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,880	Dec. 18	69	1636
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,881	Dec. 18	69	1636
Rose, Arthur M., Yonkers, N. Y., assignor to M. J. Whittall, Worcester, Mass. Carpet	23,888	Dec. 25	69	1762
Rose, Arthur M., Yonkers, N. Y., assignor to Worcester Carpet Company, of Massachusetts. Carpet-body	23,821	Nov. 27	69	1204
Rose, Arthur M., Yonkers, N. Y., assignor to Worcester Carpet Company, of Massachusetts. Carpet-border	23,822	Nov. 27	69	1205
Rose, Arthur M., Yonkers, N. Y., assignor to Worcester Carpet Company, of Massachusetts. Carpet	23,823	Nov. 27	69	1205
Ross & Co., A. M. (See Brand, Harrison, assignor.)				
Rowe, George E., assignor of one-half to N. B. Stevens, Boston, Mass. Caster	23,688	Oct. 16	69	359
Royal Metal Manufacturing Company. (See Golde, Robert, assignor.)				
Ruedisale, William J., Detroit, Mich. Fish-scaler	23,752	Oct. 30	69	634
Ruppel, Henry. (See Dangler and Ruppel.)				
Russell & Erwin Manufacturing Company. (See Burgess, Charles M., assignor.)				
Russell & Erwin Manufacturing Company. (See Russell, Henry E., assignor.)				
Russell, Henry E., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Shelf-bracket	23,610	Aug. 28	68	1137
Safety Car Heating and Lighting Company. (See Dixon, Robert M., assignor.)				
Samuels, Benjamin S., New York, N. Y. Book-marker	23,076	Feb. 20	66	1302
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,232	May 1	67	669
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,625	Sept. 4	68	1269
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,693	Oct. 16	69	360
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,841	Dec. 4	69	1353
Sauer, Emil G., Brooklyn, N. Y., assignor to Lowell Manufacturing Company, Boston, Mass. Carpet	23,842	Dec. 4	69	1353
Savell, William B. (See Graham and Savell.)				
Scattergood, Charles F., Albany, N. Y. Transmitter-dial	23,111	Mar. 13	66	1749
Scattergood, Charles F., Albany, N. Y. Dial for electrical annunciators	23,112	Mar. 13	66	1749
Schack, Sarah J., Chicago, Ill. Child's waist	23,132	Mar. 20	66	1886
Scheer, William, Arverne, N. Y. Brooch	23,458	July 17	68	404
Scheer, William, Arverne, N. Y. Brooch	23,459	July 17	68	405
Scheer, William, Arverne, N. Y. Brooch	23,460	July 17	68	405
Scheer, William, Arverne, N. Y. Brooch	23,461	July 17	68	405
Schenck, Seward D., Binghamton, N. Y. Spoon	23,690	Oct. 16	69	360
Schener, Herman. (See Zimmermann, Rudolph, assignor.)				
Schlaepfer, Charles, Paterson, N. J. Pattern for textile fabrics	23,165	Apr. 3	67	132
Schmitz, Edward. (See Miller and Schmitz.)				
Schofield, George N., et al. (See Chadwick, John H., assignor.)				
Schofield, Mason & Co. (See Chadwick, John H., assignor.)				
Schrader, Charles F., assignor to Hero Fruit Jar Company, Philadelphia, Pa. Atomizer-top	23,282	May 22	67	1057
Schuck, Valentine G., assignor to Suto Bros. Braid Company, New York, N. Y. Braid	23,186	Apr. 10	67	265
Schuck, Valentine G., assignor to Suto Bros. Braid Company, New York, N. Y. Braid	23,208	Apr. 24	67	520
Schueler, Richard J. (See Fay and Schueler.)				
Schuessler, Henry, Amityville, N. Y. Mirror-frame	23,559	Aug. 14	68	908
Schumm, Jacob G., La Porte, Ind. Cabinet	23,907	Dec. 25	69	1765
Schütz, Mari, New York, N. Y. Hair-crimper	23,016	Jan. 23	66	646
Schwarz, Isaac A., et al. (See Lipper and Kesh, assignors.)				
Schwickart, Philip, Brooklyn, N. Y. Lens for vault-lights	23,348	June 12	67	1439
Scott, William, Medford, Mass. Bath-tub	23,583	Aug. 21	68	1017
Scott, William J., Boston, Mass. Ambulance-body	23,614	Aug. 28	68	1138
Scovill Manufacturing Company. (See Lines, John, assignor.)				
Scovill Manufacturing Company. (See Sperry, Mark L., assignor.)				
Sears, James A. W., Menominee, assignor of two-thirds to F. J. Merriam, Gladstone, Mich. Wash-board-plate	23,629	Sept. 4	68	1269
Sedgwick, Clarence W., New York, N. Y. Pocket-case	23,443	July 10	68	274
Sedgwick, Clarence W., New York, N. Y. Pocket-box	23,516	July 31	68	649
Sedgwick, Clarence W., New York, N. Y. Pocket-box	23,608	Aug. 28	68	1137
Serradio, Giacomo, Newport, R. I. Booth	23,478	July 17	68	407
Shaw & Kaiser. (See Shaw, Ora D., assignor.)				
Shaw, Ora D., Chelsea, assignor to Shaw & Kaiser, Boston, Mass. Cap	23,009	Jan. 16	66	451
Shaw, Peter, Brooklyn, N. Y. Globe, shade, &c	23,776	Nov. 6	69	782
Shaw, Robert B., assignor of one-half to S. T. Nicholson, Washington, N. C. Music-leaf turner	23,103	Mar. 6	66	1587
Sheldon, Mark A., Detroit, Mich. Holder for curling-irons	23,137	Mar. 20	66	1886

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Shephard, John A., New York, N. Y. Bottle-stopper.....	23,412	July 3	68	134
Shephard, John A., New York, N. Y. Bottle, &c.....	23,413	July 3	68	135
Sheppard, Franklin L., <i>et al.</i> (See Gobeille, Joseph L., assignor.)				
Sheppard, Howard R., <i>et al.</i> (See Gobeille, Joseph L., assignor.)				
Sheppard, Isaac A., <i>et al.</i> (See Gobeille, Joseph L., assignor.)				
Shiebler, George W., Brooklyn, N. Y. Back for brushes, &c.....	23,331	June 5	67	1323
Shiebler, George W., Brooklyn, N. Y. Metallic border.....	23,517	July 31	68	649
Shiebler, George W., Brooklyn, N. Y. Spoon-handle, &c.....	23,643	Sept. 18	68	1513
Shiebler, George W., Brooklyn, N. Y. Spoon, &c.....	23,833	Dec. 4	69	1351
Shinkle, Harry I. (See Peirce and Shinkle.)				
Shoudy, Fred G., Rockford, Ill. Cabinet.....	23,219	Apr. 24	67	521
Shoudy, Fred G., Rockford, Ill. Cabinet.....	23,220	Apr. 24	67	522
Siebert, George C., assignor to A. Krouse, Bridgeport, Conn. Vase.....	23,214	Apr. 24	67	520
Siegel, Hermann, New York, N. Y. Glass vessel.....	23,727	Oct. 23	69	501
Silberstein, Samuel, Pittsburg, Pa. Conductor for water.....	23,227	Apr. 24	67	523
Silberstein, Samuel, Pittsburg, Pa. Eaves-trough.....	23,247	May 1	67	671
Sill Stove Works. (See Barnes, William H., assignor.)				
Simmons & Co., R. F. (See Sweet, Joseph L., assignor.)				
Simmons, William H., Syracuse, N. Y. Hame.....	23,148	Mar. 20	66	1888
Simpson, Hall, Miller & Company. (See Clulee, John, assignor.)				
Singleton, Thomas, Jr., assignor to Mount Washington Glass Company, New Bedford, Mass. Glass vessel.....	23,496	July 24	68	525
Singleton, Thomas, Jr., assignor to Mount Washington Glass Company, New Bedford, Mass. Glass vessel.....	23,497	July 24	68	526
Singleton, Thomas, Jr., assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Glass vessel.....	23,761	Nov. 6	69	781
Smith & Son, William T. (See Pegel, Julius G., assignor.)				
Sittmann, Gustav, and W. H. Pitt, Brooklyn, N. Y. Case for coin-controlled machines.....	23,190	Apr. 10	67	265
Slater, John, Burslem, assignor to H. Doulton & Co., London, England. Vase.....	23,465	July 17	68	405
Smedes, Levi K., assignor to H. E. Taylor & Co., New York, N. Y. Casket.....	22,995	Jan. 2	66	165
Smith & Egge Manufacturing Company. (See Smith, Friend W., Jr., assignor.)				
Smith, Friend W., Jr., assignor to Smith & Egge Manufacturing Company, Bridgeport, Conn. Chain.....	23,639	Sept. 11	68	1385
Smith, Sidney, assignor to Holmes & Edwards Silver Company, Bridgeport, Conn. Spoon, fork, &c.....	23,163	Apr. 3	67	132
Smith, Sidney, Bridgeport, assignor to William Rogers Manufacturing Company, Hartford, Conn. Spoon, fork, or similar article.....	23,326	June 5	67	1323
Smith, Thomas S., St. Louis, Mo. Disinfectant-receptacle.....	23,734	Oct. 23	69	502
Smith, William T., Philadelphia, Pa. Woven fabric.....	23,017	Jan. 25	66	646
Smith, William T., Philadelphia, Pa. Woven fabric.....	23,324	June 5	67	1322
Somerville, William, St. Louis, Mo. Lantern-globe.....	23,824	Nov. 27	69	1205
Sommer, John L., Newark, N. J. Button-hook, &c.....	23,862	Dec. 11	69	1497
Sotscheck, Charles, assignor to F. Keil & Son, New York, N. Y. Door-pull or analogous article.....	23,139	Mar. 20	66	1887
Spear, James, Philadelphia, Pa. Stovepipe-section.....	23,161	Mar. 27	66	2047
Speck, Adam. (See Kahn and Speck.)				
Sperry, Mark L., assignor to Scovill Manufacturing Company, Waterbury, Conn. Oil-can.....	23,018	Jan. 23	66	646
Stark, Frank G., assignor to Carbo-Alumina Metal Company, St. Louis, Mo. Bicycle-frame.....	23,395	June 19	67	1566
Steiner, Theodore, Findlay, Ohio. Dish.....	23,495	July 24	68	525
Sternau, Sigmund, New York, N. Y. Alcohol-lamp.....	23,552	Aug. 7	68	765
Sternau, Sigmund, New York, N. Y. Kettle.....	22,762	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Kettle.....	23,763	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Kettle-stand.....	23,764	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Kettle-stand.....	23,765	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Kettle-stand.....	23,766	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Kettle-stand.....	23,767	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Chafing-dish.....	23,768	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Stand for chafing-dishes.....	23,769	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Stand for chafing-dishes.....	23,770	Nov. 6	69	781
Sternau, Sigmund, New York, N. Y. Tile-stand.....	23,771	Nov. 6	69	782
Stevens, Nathaniel B. (See Rowe, George E., assignor.)				
Stimson, Charles W., New York, N. Y. Junction-plate.....	23,799	Nov. 13	69	937
Stoneburner, George E., Des Moines, Iowa. Dial.....	23,188	Apr. 10	67	265
Straus & Sons, L. (See Davies, Benjamin, assignor.)				
Strickler, Walter C., Philadelphia, Pa. Picture-frame.....	23,062	Feb. 13	66	1161
Sutphen, John A., Zanesville, Ohio. Guitar.....	23,725	Oct. 23	69	501
Sutro Bros. Braid Company. (See Schuck, Valentine G., assignor.)				
Swan, Henry C., Oshkosh, Wis. Vehicle-step.....	23,753	Oct. 30	69	635
Swan, Henry C., Oshkosh, Wis. Vehicle-step.....	23,883	Dec. 18	69	1636
Sweet, Joseph L., assignor to R. F. Simmons & Co., Attleborough, Mass. Cigar-cutter case.....	23,023	Jan. 30	66	838
Symonds, John L., Detroit, Mich. Flower-stand.....	23,906	Dec. 25	69	1765
Syracuse Stove Works. (See Gobeille, Joseph L., assignor.)				
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Bottle-stopper.....	23,175	Apr. 10	67	263
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Bottle-stopper.....	23,176	Apr. 10	67	263
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Bottle.....	23,341	June 19	67	1564
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Bottle.....	23,374	Dec. 11	69	1499
Tatum, Charles A., assignor to Whitall, Tatum & Co., New York, N. Y. Standard for tablet-machines.....	23,921	Dec. 25	69	1767
Taylor & Co., H. E. (See Smedes, Levi K., assignor.)				
Taylor, George H., New York, N. Y. Trimming.....	23,073	Feb. 20	66	1302
Taylor, George H., New York, N. Y. Necktie.....	23,074	Feb. 20	66	1302
Theberath, John H., Newark, N. J. Scarf-pin.....	23,514	July 31	68	648
Theberath, John H., Newark, N. J. Scarf-pin.....	23,534	Aug. 7	68	762
Thompson, Charles C., San Diego, Cal. Spoon.....	23,310	May 29	67	1182
Thompson, Frederic L., assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Support for pitchers or similar articles.....	23,681	Oct. 9	69	236
Thompson, Frederic L., assignor to Pairpoint Manufacturing Company, New Bedford, Mass. Metallic pattern-strip.....	23,800	Nov. 13	69	937
Thonet, August, Vienna, Austria-Hungary. Chair.....	22,918	Jan. 2	66	166
Thonet, August, Vienna, Austria-Hungary. Chair.....	23,065	Feb. 13	66	1161
Thornton, Edward B., Providence, R. I. Stick or scarf pin.....	23,716	Oct. 23	69	500
Tiffany & Co. (See Curran, John T., assignor.)				
Tilton, George P., assignor to Towle Manufacturing Company, Newburyport, Mass. Handle for spoons, &c.....	23,557	Aug. 14	68	907
Todd & Co., Edward. (See Todd, Edward, Jr., assignor.)				
Todd, Edward, Jr., assignor to E. Todd & Co., New York, N. Y. Tool-handle.....	23,346	June 12	67	1439
Torrance, Francis J., Allegheny, Pa. Latrine.....	23,856	Dec. 4	69	1355

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Torsch, Edward L., and J. R. Lee, Baltimore, Md. Badge-heading.....	23,058	Feb. 13	66	1160
Totham, James, New Haven, Conn. Slab-support	23,334	June 5	67	1324
Totham, James, New Haven, Conn. Holder for toilet articles	23,416	July 3	68	135
Tower Manufacturing and Novelty Company. (See Keep, James M., assignor.)				
Towle Manufacturing Company. (See Tilton, George P., assignor.)				
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pattern for wrapping-paper.....	23,408	July 3	68	134
Towne, Henry R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pattern for wrapping-paper.....	23,409	July 3	68	134
Traxler, Armen. (See Landau and Traxler.)				
Truitt, Ivy M. L., assignor to M. H. Birge & Sons, Buffalo, N. Y. Wall-paper.....	23,695	Oct. 16	69	361
Turnbull, James A. (See Parker, Newell, and Turnbull.)				
Turner, Ross, Salem, Mass. Spoon	22,994	Jan. 2	66	165
Tyson, Benjamin H. (See Nolley, David D., assignor.)				
Tyson, George E., Reading, Pa. Door-escutcheon	23,729	Oct. 23	69	561
United Special Sewing Machine Company. (See Muther, Woodward, and Holland, assignors.)				
United States Printing Company. (See Omwake, John, assignor.)				
Valentine, James H., Chatham, N. J. Bottle	23,466	July 17	68	405
Van Buren, Jafew S., Albany, N. Y. Heating-stove	23,013	Jan. 23	66	646
Van Denbergh, Henry T., assignor to Progress Novelty Manufacturing Company, Chicago, Ill. Cabinet.....	23,002	Jan. 9	66	303
Van Denbergh, Henry T., assignor to Progress Novelty Manufacturing Company, Chicago, Ill. Cabinet.....	23,003	Jan. 9	66	303
Van Eps, Henry R., Peoria, Ill. Fence-panel	23,146	Mar. 20	66	1288
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,293	May 22	67	1058
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,294	May 22	67	1059
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,295	May 22	67	1059
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,296	May 22	67	1059
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,297	May 22	67	1059
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,298	May 22	67	1059
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,299	May 22	67	1059
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,300	May 22	67	1059
Vau Vleck, John, New York, N. Y. Case for electrical measuring-instruments	23,301	May 23	67	1059
Vautier, John J., Brooklyn, assignor of one-half to J. G. Law, New York, N. Y. Attaching-socket for tubing.....	23,523	July 31	68	650
Vian, Constant, E., and V. Becchio, Brooklyn, N. Y. Link for mats	23,627	Sept. 4	68	1269
Vollstorff, August W., Toledo, Ohio. Fan	23,549	Aug. 7	68	764
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Picture-frame	23,215	Apr. 24	67	521
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Picture-frame	23,216	Apr. 24	67	521
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Picture-frame	23,217	Apr. 24	67	521
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Picture-frame	23,218	Apr. 24	67	521
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Mirror-frame, &c.	23,384	June 19	67	1564
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Picture-frame, &c.	23,385	June 19	67	1564
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Picture-frame, &c.	23,386	June 19	67	1564
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Picture-frame, &c.	23,387	June 19	67	1565
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Base for lamps	23,417	July 3	68	135
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Base for lamps	23,418	July 3	68	135
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Base for lamps	23,419	July 3	68	135
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Lamp-fount holder	23,420	July 3	68	136
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Frame for tables, &c.	23,421	July 3	68	136
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Frame for tables, &c.	23,422	July 3	68	136
Von Grave, Lothar, Wallingford, Conn., assignor to H. L. Judd & Company, New York, N. Y. Frame for table-tops	23,520	July 31	68	649
Wagandt, Charles L., assignor to Keen & Hagerly, Baltimore, Md. Tooth-brush holder	23,038	Feb. 6	66	986
Waldvogel, George J., Toledo, Ohio. Music-stool	23,424	July 3	68	136
Walker, David. (See Warren and Walker.)				
Walker, David, and R. H. Warren, Newark, N. J. Stair-carpet button	23,628	Sept. 4	68	1269
Walker, William, assignor of one-half to R. G. Moon, Bedford, Iowa. Preserving-vault	23,167	Apr. 3	67	133
Walker, William G., Washington, D. C. Match-box	23,061	Feb. 13	66	1161
Walsh, Edward J., W. Keegan, and P. Finucan, Cleveland, Ohio. Seal, &c.	23,410	July 3	68	134
Walsh, William H., New York, N. Y. Badge	23,831	Dec. 4	69	1351
Walter M. Lowney Company. (See Lowney, Walter M., assignor.)				
Walters, Charles, New York, N. Y. Cigar-case	23,579	Aug. 21	68	1016
Walther, Charles F., Buffalo, N. Y. Radiator	23,361	June 12	67	1441
Walther, Charles F., Buffalo, N. Y. Radiator-loop	23,527	July 31	68	650
Walther, Charles F., Buffalo, N. Y. Radiator-loop	23,914	Dec. 25	69	1767
Wanner, Albert, Jr., Hoboken, N. J. Support for vases, &c.	23,250	May 8	67	805
Ward, William H., San Francisco, Cal. Loaf of bread	23,574	Aug. 21	68	1015
Warner, De Ver H., Bridgeport, Conn. Garment-fastener	23,645	Sept. 18	68	1514
Warren, Robert H. (See Walker and Warren.)				
Warren, Robert H., and D. Walker, Newark, N. J. Stair-carpet button	23,347	June 12	67	1439
Waterbury Clock Company. (See Hopson, John, Jr., assignor.)				
Watney, Arthur, Calais, France. Lace fabric	23,185	Apr. 10	67	264
Watney, Arthur, Calais, France. Lace fabric	23,260	May 15	67	919
Watts David H., Philadelphia, Pa. Tile	23,772	Nov. 6	69	782
Weber, Frederick C. (See Wittgenfeld, Rudolph, assignor.)				
Weiper, Henry B., Durand, Wis. Centrifugal-machine casing	23,648	Sept. 18	68	1514
Weir Stove Company. (See Wilbur, George E., assignor.)				
Welker, Louis, Williamsport, Pa. Table-leg	22,997	Jan. 2	66	166
Wells, Walter A., Chicago, Ill. Game-board	23,101	Mar. 6	66	1586

Alphabetical list of designs—Continued.

Name, residence, and design.	No.	Date.	Official Gazette	
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West, Augustine C., Boston, Mass. Oil or gas heater stand	23,393	June 19	67	1566
West, Augustine C., Boston, Mass. Oil or gas heater stand	23,394	June 19	67	1566
West, Augustine C., Boston, Mass. Oil or gas stove	23,456	July 10	68	276
West, Courtney H., assignor to Moffitt-West Drug Company, St. Louis, Mo. Bottle	23,891	Dec. 25	69	1763
West, James, assignor to Barnhart Bros. & Spindler, Chicago, Ill. Font of printing-type	23,107	Mar. 6	66	1587
West, Stephen W., New York, N. Y. Shoe	23,366	June 12	67	1442
Weston, Edward, Newark, N. J. Case for electrical instruments	23,141	Mar. 20	66	1587
Weston, Edward, Newark, N. J. Supporting-frame for electrical instruments	23,156	Mar. 27	66	2046
Weston, Edward, Newark, N. J. Supporting-frame for electrical instruments	23,157	Mar. 27	66	2046
Weston, Edward, Newark, N. J. Case for electrical measuring-instruments	23,287	May 22	67	1058
Weston, Edward, Newark, N. J. Case for electrical measuring-instruments	23,283	May 22	67	1058
Weston, Edward, Newark, N. J. Case for electrical measuring-instruments	23,289	May 22	67	1058
Weston, Edward, Newark, N. J. Case for electrical measuring-instruments	23,290	May 22	67	1058
Weston, Edward, Newark, N. J. Case for electrical measuring-instruments	23,291	May 22	67	1058
Weston, Edward, Newark, N. J. Case for electrical measuring-instruments	23,292	May 22	67	1058
Wever, John L., Marion, Ind. Pitcher, &c.	23,577	Aug. 21	68	1015
Wever, John L., Marion, Ind. Pitcher, &c.	23,578	Aug. 21	68	1016
Wheeler Corrugating Company. (See Pratt, Robert H., assignor.)				
Wheeling Corrugating Company. (See Ewing, Glass, and Grafton, assignors.)				
Wheeling Corrugating Company. (See Grafton, William S., assignor.)				
Whittall, Tatum & Co. (See Tatum, Charles A., assignor.)				
White, Potter & Paige Manufacturing Co. (See Booth, James, assignor.)				
White, William, assignor to C. Whitman & Co., New York, N. Y. Bedspread	23,488	July 24	68	524
White, William, assignor to C. Whitman & Co., New York, N. Y. Bedspread	23,489	July 24	68	524
White, William, assignor to C. Whitman & Co., New York, N. Y. Bedspread	23,490	July 24	68	524
White, William, assignor to C. Whitman & Co., New York, N. Y. Bedspread	23,491	July 24	68	524
White, William, assignor to C. Whitman & Co., New York, N. Y. Bedspread	23,492	July 24	68	525
Whitehead, Benjamin S., Newark, N. J. Badge	23,817	Nov. 27	69	1204
Whitehead, Benjamin S., Newark, N. J. Badge	23,832	Dec. 4	69	1351
Whitehead, Benjamin S., Newark, N. J. Badge	23,858	Dec. 11	69	1497
Whitehead, Benjamin S., Newark, N. J. Badge	23,859	Dec. 11	69	1497
Whiteman, Frank M., Canton, Ohio. Base for a game apparatus	23,647	Sept. 18	68	1514
Whiting & Co., F. M. (See Maillot, John W., assignor.)				
Whiting Manufacturing Company. (See Osborne, Charles, assignor.)				
Whitman & Co., Clarence. (See Lawson, Henry S., assignor.)				
Whitman & Co., Clarence. (See White, William, assignor.)				
Whittall, Matthew J. (See Gedoe, Charles F., assignor.)				
Whittall, Matthew J. (See Halliday, Arthur L., assignor.)				
Whittall, Matthew J. (See Neil, John B., assignor.)				
Whittall, Matthew J. (See Rose, Arthur M., assignor.)				
Whittingham, Charles, Cleveland, Ohio. Gas cook-stove	23,529	July 31	68	651
Whittingham, Charles, Cleveland, Ohio. Gas cook-stove	23,530	July 31	68	651
Whittingham, Charles, Cleveland, Ohio. Gas-cook-stove	23,531	July 31	68	651
Wicks, Edward B., Salt Lake City, Utah Ter. Pen-wiper	23,575	Aug. 21	68	1015
Wiedemeier, Anton. (See Wiedemeier, Joseph, Jr., and A.)				
Wiedemeier, Joseph, Jr., and A., Carroll, Iowa. Button-case	23,868	Dec. 11	69	1498
Wiederer, Peter, Stapleton, N. Y. Mirror-frame	23,024	Jan. 30	66	839
Wientge, Charles C., assignor to Howard Sterling Company, Providence, R. I. Metallic border	23,145	Mar. 20	66	1888
Wientge, Charles C., assignor to Howard Sterling Company, Providence, R. I. Candelabrum-pedestal	23,181	Apr. 10	67	264
Wientge, Charles C., assignor to Howard Sterling Company, Providence, R. I. Rack	23,333	June 5	67	1323
Wientge, Charles C., assignor to Howard Sterling Company, Providence, R. I. Back plate for racks	23,389	June 19	67	1565
Wientge, Charles C., assignor to Howard Sterling Company, Providence, R. I. Back for brushes or similar articles	23,668	Oct. 2	69	115
Wientge, Charles C., assignor to Howard Sterling Company, Providence, R. I. Pitcher	23,890	Dec. 25	69	1763
Wilbur, George E., assignor to Weir Stove Company, Taunton, Mass. Cooking stove or range	23,812	Nov. 13	69	939
Wilbur, George E., assignor to Weir Stove Company, Taunton, Mass. Stove-plate	23,912	Dec. 25	69	1766
Wilder, William H., Northampton, Mass. Shade for lamps or lamp-stoves	23,808	Nov. 13	69	938
Wilder, William H., Northampton, Mass. Lamp-stove	23,810	Nov. 13	69	938
Wildsmith, George H., Leeds, England. Game-board	23,360	June 12	67	1441
Wilgus, Daniel C., Los Angeles, Cal. Nozzle for lawn-sprinklers	23,700	Oct. 16	69	361
William Rogers Manufacturing Company. (See Smith, Sidney, assignor.)				
Williams Bros. & Charbonneau. (See Williams, Henry, assignor.)				
Williams & Co., J. H. (See Grinden, William J., assignor.)				
Williams, Henry, assignor to Williams Bros. & Charbonneau, Detroit, Mich. Bottle	23,834	Dec. 4	69	1352
Wipfler, Charles, Detroit, Mich., assignor to Belleville Stove Company, Belleville, Ill. Stove	23,481	July 17	68	407
Wiswell, Jacob C., Medford, assignor of one-half to E. W. Griggs, Boston, Mass. Horseshoe	23,661	Sept. 25	68	1623
Withrow, James E., Los Angeles, Cal. Beam for letter-scales	23,335	June 5	67	1324
Wittenfeld, Rudolph, assignor of one-half to F. C. Weber, Cincinnati, Ohio. Bottle and glass tray for counters	23,899	Dec. 25	69	1764
Wood, Frederick H., assignor of one-half to A. A. Wenham, Cleveland, Ohio. Horse-boot	23,920	Dec. 25	69	1767
Wood, Juliana, Philadelphia, Pa. Badge	23,235	May 1	67	669
Woodruff, Oliver D., Southington, Conn. Frame for meat-cutters	23,580	Aug. 21	68	1016
Woods, Clinton E., Chicago, Ill. Frame for dynamos	23,743	Oct. 23	69	504
Woodward, Russel G. (See Muther, Woodward, and Holland.)				
Worcester Carpet Company. (See Rose, Arthur M., assignor.)				
Yale & Towne Manufacturing Company. (See Mix, Edward H., assignor.)				
Yale & Towne Manufacturing Company. (See Mix, Frank W., assignor.)				
Yale & Towne Manufacturing Company. (See Towne, Henry R., assignor.)				
Yokel, Franz, assignor to Meriden Bronze Company, Meriden, Conn. Slab for table-tops	23,180	Apr. 10	67	263
Yokel, Franz, assignor to Meriden Bronze Company, Meriden, Conn. Slab for table-tops	23,202	Apr. 17	67	395
Yokel, Franz, assignor to Meriden Bronze Company, Meriden, Conn. Slab for table-tops	23,203	Apr. 17	67	395
Yokel, Franz, assignor to Meriden Bronze Company, Meriden, Conn. Slab for table-tops	23,204	Apr. 17	67	395
Yokel, Franz, assignor to Meriden Bronze Company, Meriden, Conn. Slab for table-tops	23,205	Apr. 17	67	395
Yokel, Franz, assignor to Meriden Bronze Company, Meriden, Conn. Lamp-fount	23,276	May 15	67	921
Yokel, Franz, assignor to Meriden Bronze Company, Meriden, Conn. Base for lamps	23,777	Nov. 6	69	783
Yokel, Franz, assignor to Meriden Bronze Company, Meriden, Conn. Lamp-fount holder	23,778	Nov. 6	69	783
Yost, Francis H., assignor of one-half to W. H. Harris, Philadelphia, Pa. Puzzle-body	23,359	June 12	67	1441
Zimmermann, Rudolph, assignor to H. Scheuer, New York, N. Y. Fan	23,498	July 24	68	526
Ziron, Frank J. (See Neal and Ziron.)				

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Name, residence, and title.	No.	Date.	Official Gazette.	
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A. A. Griffing Iron Company, Jersey City, N. J., and Chicago, Ill. Steam and hot-water radiators	24,429	Mar. 27	66	2050
A. A. Griffing Iron Company, Jersey City, N. J. Radiators and steam-heating specialties	25,144	Aug. 14	68	912
A. & K. Chemical Co., Butte, Mont. Laxative medicine	25,034	July 24	68	531
Abbott, Wallace C., Chicago, Ill. Certain pills	24,923	June 26	67	1710
Abegg & Rnsch, New York, N. Y. Ribbons	25,443	Nov. 6	69	785
Abegg & Rnsch, New York, N. Y. Ribbons	25,557	Dec. 4	69	1356
Abraham & Straus, Brooklyn, N. Y. Certain named dress goods	24,211	Feb. 13	66	1163
Acker & Co., Finley, Philadelphia, Pa. Certain named cereals, flours, and foods	25,326	Oct. 9	69	240
Acme Manufacturing Company, Reading, Pa. Bicycles and bicycle parts	25,451	Nov. 6	69	788
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Chemical and pharmaceutical preparations				
Actien-Gesellschaft für Bürsten-Industrie, Striegan, Germany, and New York, N. Y. Brushes and brooms	24,418	Mar. 27	66	2049
Adam Roth Grocery Company, St. Louis, Mo. All kinds of canned foods	25,753	Dec. 25	69	1772
Adams, R. & H., New York, N. Y. Ribbons	24,177	Feb. 6	66	1002
Adler, Abraham, Philadelphia, Pa. Lotions to protect animals from flies and the like	25,558	Dec. 4	69	1356
Adriance, John S., New York, N. Y. Leather dressing, blacking, and polish	25,273	Sept. 25	68	1625
Aeolian Organ and Music Company, Meriden, Conn., and New York, N. Y. Organs and pianos	24,359	Mar. 13	66	1754
Alaska Packers' Association, San Francisco, Cal. Canned salmon	24,728	May 15	67	927
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,588	Dec. 4	69	1358
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,599	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,600	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,601	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,602	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,603	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,604	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,605	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,606	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,607	Dec. 4	69	1359
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,608	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,609	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,610	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,611	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,612	Dec. 4	66	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,613	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,614	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,615	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,616	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,617	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,618	Dec. 4	69	1360
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,722	Dec. 25	69	1770
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,723	Dec. 25	69	1770
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,724	Dec. 25	69	1770
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,725	Dec. 25	69	1770
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,726	Dec. 25	69	1770
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,727	Dec. 25	69	1770
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,728	Dec. 25	69	1770
Alaska Packers' Association, San Francisco, Cal. Canned salmon	25,729	Dec. 25	69	1770
Albany Billiard Ball Company, Albany, N. Y. Pool-balls	24,426	Mar. 27	66	2049
Albany Billiard Ball Company, Albany, N. Y. Pool-balls	24,427	Mar. 27	66	2050
Albany Billiard Ball Company, Albany, N. Y. Pool-balls	24,428	Mar. 27	66	2050
Albion Company, Providence, R. I., and New York, N. Y. Textile fabrics, including cotton, linen, woolen, worsted, and silk, velvet, and velveteen				
Albion Company, Providence, R. I., and New York, N. Y. Cotton, linen, woolen, worsted, and silk, velvet, and velveteen fabrics	24,038	Jan. 16	66	452
Albion Company, Providence, R. I., and New York, N. Y. Certain textile fabrics				
Albion Company, Providence, R. I., and New York, N. Y. Certain textile fabrics	24,376	Mar. 20	66	1889
Albion Company, Providence, R. I., and New York, N. Y. Certain textile fabrics	24,701	May 15	67	923
Alkire Grocer Company, St. Louis, Mo. Coffee	24,173	Feb. 6	66	1001
Alkire Grocer Company, St. Louis, Mo. Coffee in the shape of coffee-beans	25,369	Oct. 16	69	367
Allen & Bro., Philadelphia, Pa. Reclining-chairs	24,699	May 8	67	815
Allen-Foise Manufacturing Company, New York, N. Y., and Plainfield, N. J. Dentifrice	25,681	Dec. 18	69	1638
Allen's Sons, J. J., Philadelphia, Pa. Fertilizers	24,420	Mar. 27	66	2049
Alsing & Company, Limited, London, England. Matches	25,120	Aug. 14	68	909
Alsing & Company, Limited, London, England. Matches	25,121	Aug. 14	68	909
Alsing & Company, Limited, London, England. Matches	25,122	Aug. 14	68	909
Alsing & Company, Limited, London, England. Matches	25,123	Aug. 14	68	909
Alsing & Company, Limited, London, England. Matches	25,359	Oct. 16	69	366
Alsing & Company, Limited, London, England. Matches	25,360	Oct. 16	69	366
Alsing & Company, Limited, London, England. Matches	25,361	Oct. 16	69	366
Alsing & Company, Limited, London, England. Matches	25,362	Oct. 16	69	366
Alsing & Company, Limited, London, England. Matches	25,363	Oct. 16	69	366
Althaus, John H., Providence, R. I. Bread	24,862	June 12	67	1445
Altman Summer Neckwear Company, New York, N. Y. Bows, ties, and scarfs for neckwear	25,029	Aug. 7	68	766
America Baking Powder Company, New York, N. Y. Baking-powder	24,005	Jan. 9	66	310
American Bank Note Company, New York, N. Y. Safety-paper	25,237	Sept. 18	68	1515
American Bank Note Company, New York, N. Y. Safety-paper	25,238	Sept. 18	68	1515
American Bisenit and Manufacturing Company, Chicago, Ill. Crackers and biscuits	24,818	June 5	67	1327
American Boiler Company, New York, N. Y., and Chicago, Ill. Steam and hot-water heaters	24,075	Jan. 16	66	455
American Boiler Company, New York, N. Y., and Chicago, Ill. Steam and hot-water heaters	24,076	Jan. 16	66	455
American Boiler Company, New York, N. Y., and Chicago, Ill. Steam and hot-water heaters	24,077	Jan. 16	66	455
American Boiler Company, New York, N. Y., and Chicago, Ill. Steam and hot-water heaters	24,078	Jan. 16	66	456
American Fibre Chamois Company, New York, N. Y. Imitation chamois-skin	24,656	May 8	67	807
American Net and Twine Company, Boston, Mass., and New York, N. Y. Cotton sail-twine	25,242	Sept. 18	68	1516

Alphabetical list of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
American Safety-Head Match Company, Lebanon, Pa. Wooden and paper matches.....	24,874	June 12	67	1446
American Shearer Manufacturing Company, Nashua, N. H. Hair and wool clippers.....	23,953	Jan. 2	66	167
American Shoe Tip Company, New Haven, Conn., and Boston, Mass. Toe-protectors for boots or shoes.....	24,042	Jan. 16	66	452
American Supply Co., New York, N. Y. Hooks and eyes.....	24,118	Jan. 30	66	841
American Waltham Watch Company, Boston and Waltham, Mass., and New York, N. Y. Watches and watch-movements.....	25,148	Aug. 21	68	1018
American Wringer Company, Providence, R. I., New York and Auburn, N. Y. Clothes-wringers.....	24,110	Jan. 23	66	649
American Wringer Company, Providence, R. I., New York and Auburn, N. Y. Clothes-wringers.....	24,111	Jan. 23	66	649
American Wringer Company, Providence, R. I., New York and Auburn, N. Y. Clothes-wringers.....	24,112	Jan. 23	66	649
American Wringer Company, Providence, R. I., New York and Auburn, N. Y. Clothes-wringers.....	24,113	Jan. 23	66	649
American Wringer Company, Providence, R. I., New York and Auburn, N. Y. Clothes-wringers.....	24,114	Jan. 23	66	649
American Wringer Company, Providence, R. I., New York and Auburn, N. Y. Clothes-wringers.....	24,115	Jan. 23	66	649
American Wringer Company, Providence, R. I., New York and Auburn, N. Y. Clothes-wringers.....	24,116	Jan. 23	66	650
American Writing Machine Company, Hartford, Conn. Type-writer ribbons.....	25,119	Aug. 14	68	909
Ames & Frost Company, Chicago, Ill. Hand-tools for the care of cycles.....	24,767	May 22	67	1063
Amlin Company, New York, N. Y. Dress-shields.....	24,244	Feb. 20	66	1304
Amoskeag Manufacturing Company, Manchester, N. H. Cotton fabrics.....	24,884	June 19	67	1567
Anderson Preserving Company, Camden, N. J. Tomato catsup.....	24,508	Apr. 10	67	269
Angier Chemical Company, Boston, Mass. Refined petroleum for internal and external remedies for disease.....	24,051	Jan. 16	66	453
Anglo-American Provision Company, Chicago, Ill. Hog and beef products, including lard and tallow.....	24,457	Apr. 3	67	135
Anglo-American Provision Company, Chicago, Ill. Hog and beef products, including lard and tallow.....	24,458	Apr. 3	67	136
Anglo-American Provision Company, Chicago, Ill. Sausage.....	24,510	Apr. 10	67	269
Anglo-American Provision Company, Chicago, Ill. Lard.....	24,554	Apr. 17	67	399
Anglo-American Provision Company, Chicago, Ill. Lard.....	24,555	Apr. 17	67	399
Anglo-American Provision Company, Chicago, Ill. Lard.....	24,556	Apr. 17	67	399
Anglo-American Provision Company, Chicago, Ill. Lard.....	24,557	Apr. 17	67	399
Anglo-American Provision Company, Chicago, Ill. Lard.....	24,584	Apr. 24	67	525
Anglo-American Provision Company, Chicago, Ill. Lard.....	24,585	Apr. 24	67	525
Anglo-American Provision Company, Chicago, Ill. Hams.....	24,669	May 8	67	808
Anglo-American Provision Company, Chicago, Ill. Hams.....	24,670	May 8	67	808
Anglo-American Provision Company, Chicago, Ill. Hams.....	24,671	May 8	67	808
Anglo-American Provision Company, Chicago, Ill. Hams.....	24,672	May 8	67	808
Anglo-American Provision Company, Chicago, Ill. Hams and sausages.....	24,673	May 8	67	808
Anglo-American Provision Company, Chicago, Ill. Bacon.....	24,688	May 8	67	808
Anglo-American Provision Company, Chicago, Ill. Lard.....	24,751	May 22	67	1062
Anglo-American Provision Company, Chicago, Ill. Hams and side meats.....	24,752	May 22	67	1062
Anglo-American Provision Company, Chicago, Ill. Lard compound.....	24,820	June 5	67	1327
Anglo-American Provision Company, Chicago, Ill. Hog products, including hams.....	25,029	July 17	68	411
Anglo-American Provision Company, Chicago, Ill. Hog products, including lard.....	25,043	July 24	68	529
Anheuser-Busch Brewing Association, St. Louis, Mo. Tonic medicine.....	24,641	May 1	67	674
Antikamnia Chemical Company, St. Louis, Mo. Medicinal tablets.....	24,723	May 15	67	925
Antikamnia Chemical Company, St. Louis, Mo. Medicinal tablets composed of antikamnia and quinine.....	25,097	Aug. 7	68	767
Antikamnia Chemical Company, St. Louis, Mo. Medicinal tablets composed of antikamnia and salol.....	25,098	Aug. 7	68	767
Antikamnia Chemical Company, St. Louis, Mo. Medicinal tablets composed of antikamnia and codeine.....	25,099	Aug. 7	68	767
Antikamnia Chemical Company, St. Louis, Mo. Medicinal tablets.....	25,688	Dec. 18	69	1639
Antisepticum Company, Philadelphia, Pa. Antiseptic chewing candies and gum.....	24,142	Jan. 30	66	842
Appleby, Walter F., Washington, D. C. Household cement.....	25,736	Dec. 25	69	1771
Archer, Daniel W., Blair, Nebr. Canned meats, fruits, and vegetables.....	24,126	Jan. 30	66	841
Arctic Whalebone Company, New York, N. Y. Whalebone.....	24,635	May 1	67	673
Arethusa Spring Water Co., Seymour, Conn. Spring-water.....	25,390	Oct. 23	69	505
Ariel Cycle Manufacturing Company, Goshen, Ind. Bicycles, tricycles, and like vehicles.....	25,113	Aug. 7	68	768
Arnold, Charles H., New York, N. Y. Whisky.....	24,661	May 8	67	807
Arrington, William T., Memphis, Tenn. Dentifrices.....	25,459	Nov. 6	69	786
Atwood, Frank H., Boston, Mass. Cloth or canvas backed leather.....	24,815	June 5	67	1327
Aulick, Frederick A., New York, N. Y. Remedies for rheumatism and disorders of the blood.....	25,267	Sept. 25	68	1624
Ayers Toilet Soap Co., Jersey City, N. J. Toilet soap.....	25,210	Sept. 4	68	1272
Azure Mining Company, New York, N. Y. New Mexican turquoises.....	24,263	Feb. 20	66	1305
B. F. Allen Company, New York, N. Y. Throat medicine.....	25,230	Sept. 11	68	1367
B. P. Ducas Company, New York, N. Y. Burned starch made of potatoes.....	24,863	June 12	57	1445
Babbitt, Benjamin T., New York, N. Y. Baking powder.....	24,083	Jan. 23	36	647
Babcock & Wilcox Company, New York and Buffalo, N. Y., Boston, Mass., Philadelphia and Pittsburgh, Pa., Chicago, Ill., Cincinnati and Cleveland, Ohio, St. Louis, Mo., Minneapolis, Minn., San Francisco, Cal., New Orleans, La., Montreal and Deseronto, Canada, Havana Cuba, London, England, and Glasgow, Scotland. Steam-boilers.....	25,550	Nov. 20	69	1066
Bac, Charles G., Paris, France. Metallic eyelets for shoes.....	24,160	Feb. 6	66	1000
Bader, Henry F., New Albany, Ind. Proprietary medicine used as an injection.....	24,193	Feb. 6	66	1003
Bailey Chemical Co., New York, N. Y. Nerve tonic, tissue-builder, and dyspepsia specific.....	25,433	Nov. 6	69	786
Bailey & Cie., C. Paris, France. Elixir.....	24,397	Mar. 20	66	1891
Baily & Co., Joel J., Philadelphia, Pa. Knit underwear, gloves, hosiery, and neckwear.....	24,616	May 1	67	672
Baird, Arthur E., New York, N. Y. Meat-softener in the form of a powder.....	24,463	Apr. 3	67	136
Baker & Co., Charles F., Boston, Mass. Nails.....	25,477	Nov. 6	69	788
Baker, Louise L., St. Paul, Minn. Medicine for the cure of neuralgia, rheumatism, and kindred diseases.....	24,989	July 10	68	277
Baldwin, J. & J., Halifax, England. Yarns.....	25,625	Dec. 11	69	1500
Baldwin, J. & J., Halifax, England. Yarns.....	25,668	Dec. 18	69	1637
Baldwin, J. & J., Halifax, England. Yarns.....	25,669	Dec. 18	69	1637
Baldwin, J. & J., Halifax, England. Yarns.....	25,670	Dec. 18	69	1637
Baldwin, J. & J., Halifax, England. Yarns.....	25,671	Dec. 18	69	1637
Baldwin, J. & J., Halifax, England. Yarns.....	25,672	Dec. 18	69	1637
Baldwin, J. & J., Halifax, England. Yarns.....	25,673	Dec. 18	69	1638
Baldwin, J. & J., Halifax, England. Yarns.....	25,674	Dec. 18	69	1638
Baldwin, J. & J., Halifax, England. Yarns.....	25,675	Dec. 18	69	1638
Ball, Webster C., Cleveland, Ohio. Watches and portable clocks.....	24,711	May 15	67	924
Banks, William T., Boston, Mass. Specific for certain named diseases.....	24,988	July 10	68	277
Banner Buggy Company, Columbus, Ohio. Buggies.....	25,006	July 10	68	278
Baptesroses & Cie., F., Paris, France. Agate beads and buttons.....	24,438	Apr. 3	67	134
Barbour Bros. Company, Paterson, N. J. Fish-nets.....	24,212	Feb. 13	66	1164

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Barbour & Son, Jas. L., Washington, D. C. Cigars and tobacco.....	25,655	Dec. 11	69	1503
Barbour & Son, Jas. L., Washington, D. C. Cigars and tobacco.....	25,656	Dec. 11	69	1503
Barclay & Co., London, England. Aerated and non-alcoholic ale.....	24,135	Jan. 30	66	842
Barker, John N., Willard, Utah Ter. Tonic medicine.....	24,096	Jan. 23	66	648
Barnard, Sumner & Putnam Company, Worcester, Mass. Hosiery.....	24,568	Apr. 24	67	524
Barnum, James W., Louisville, Ky. Shampoo for the hair.....	24,541	Apr. 17	67	397
Bates, Edward N., Portland, Me. Vegetable bitters.....	25,295	Oct. 2	69	119
Bartholomay Brewery Company, Rochester, N. Y. Lager-beer.....	24,915	June 26	67	1716
Bay State Watch Case Company, Boston, Mass. Watchcases.....	24,733	May 22	67	1061
Beach Manufacturing Company, Hartford, Conn. Fleece-lined fabrics.....	24,035	Jan. 9	66	314
Beane, Joshua F., Augusta, Me. Cough-drops.....	24,470	Apr. 3	67	137
Beck & Gregg Hardware Company, Atlanta, Ga. Cutlery and carpenters', machinists', and farmers' tools and hardware.....	24,935	June 26	67	1718
Beck & Gregg Hardware Company, Atlanta, Ga. Cutlery, tools for carpenters, machinists, and farmers, and hardware.....	24,982	July 3	68	142
Beck & Sons, Jacob, Detroit, Mich. Rolled cereals.....	25,030	July 17	68	411
Bee Manufacturing Co., Columbus, Ohio. Children's waists.....	25,116	Aug. 14	68	909
Belcher & Taylor Agricultural Tool Company, Chicopee Falls, Mass. Agricultural tools and implements.....	25,336	Oct. 9	69	240
Belikan, Valentine, Detroit, Minn. Liquid detergent.....	24,632	May 1	67	673
Beling, L., and V. L. Tissera, Davenport, Iowa. Tea.....	24,816	June 5	67	1327
Beling, L., and V. L. Tissera, Davenport, Iowa. Tea.....	24,817	June 5	67	1327
Bell, Lewis J., Pike, Ind. Remedy for diseases of the blood.....	24,052	Jan. 16	66	453
Bellaire Stamping Company, Harvey, Ill. Retinned steel ware for kitchen use.....	24,239	Feb. 13	66	1166
Bellaire Stamping Company, Harvey, Ill. Enameled steelware for household use.....	24,324	Mar. 6	66	1592
Belmont Distillery Company, Louisville, Ky. Whisky.....	25,714	Dec. 25	69	1769
Benedict, Horace K., New York, N. Y. Jewelry ornamented with precious stones, diamonds excepted.....	24,524	Apr. 17	67	396
Benedict, Read, New York, N. Y. Collar and cuff buttons.....	25,041	July 24	68	529
Benjamin & Co., Alfred, New York, N. Y. Overcoats.....	24,371	Mar. 20	66	1889
Benjamin & Co., Alfred, New York, N. Y. Overcoats.....	24,372	Mar. 20	66	1889
Benjamin & Co., Alfred, New York, N. Y. Overcoats.....	24,373	Mar. 20	66	1889
Benjamin & Co., Alfred, New York, N. Y. Overcoats.....	25,623	Dec. 11	69	1500
Bennett, Albert J., Woonsocket, R. I. Radiator attachments, such as shelves and brackets.....	23,955	Jan. 2	66	167
Bennett, Sloan & Co., New York, N. Y. Canned meats, fish, fruits, spices, condiments, and vegetables, except corn.....	24,301	Mar. 6	66	1590
Bennett, Sloan & Co., New York, N. Y. Canned goods.....	24,302	Mar. 6	66	1590
Bennett, Sloan & Co., New York, N. Y. Canned goods.....	24,303	Mar. 6	66	1590
Bentel & Margedant Company, Hamilton, Ohio. Woodworking-machines.....	24,435	Mar. 27	66	2050
Benze & Co., Long Island City, N. Y. Suppositories.....	25,381	Oct. 16	69	368
Berger Bros., Philadelphia, Pa. Malleable and gray iron castings, tinnern's hardware, roofers' supplies, and heater and range fittings.....	25,259	Sept. 18	68	1518
Berger, Les Fils de C. F., Marseilles, France, and Couvet, Switzerland. Absinthe.....	24,340	Mar. 13	66	1752
Berger, Les Fils de C. F., Marseilles, France, and Couvet, Switzerland. Absinthe.....	24,341	Mar. 13	66	1752
Bernudez, Joaquin A., New Orleans, La. Dental preparations.....	24,846	June 12	67	1444
Bernheim Bros., Louisville, Ky. Whisky.....	24,986	July 10	68	277
Bernheimer & Walter, New York, N. Y. Cotton fabrics.....	24,124	Jan. 30	66	841
Bernheimer & Walter, New York, N. Y. Cotton goods.....	24,702	May 15	67	923
Berry Bros., Limited, Detroit, Mich. Orange shellac gum.....	24,491	Apr. 10	67	267
Berry Brothers, Limited, Detroit, Mich. Varnish for wood floors.....	25,141	Aug. 14	68	911
Berry, Ella, New Orleans, La. Certain named toilet preparations, including soap.....	25,155	Aug. 21	68	1018
Hest, John L., Chicago, Ill. Oysters.....	24,621	May 1	67	672
Betham, William R., Chicago, Ill. Chewing-gum.....	23,978	Jan. 2	66	169
Bevan & Co., W. C., Malaga, Spain. Medicated wine.....	24,625	May 1	67	672
Bickley, Charles D., Boston, Mass. Whisky.....	24,500	Apr. 10	67	268
Bidtel Chemical Works, Milwaukee, Wis. Chemicals.....	25,497	Nov. 13	69	941
Biechele Soap Co., Jos. Canton, Ohio. Bar-soap.....	24,851	June 12	67	1444
Big Wheel Company, Wheeling, W. Va. Baking-powder.....	24,716	May 15	67	924
Biz Wheel Company, Wheeling, W. Va. Flavoring extracts for culinary purposes.....	24,717	May 15	67	924
Billings, Clapp & Co., Boston, Mass. Remedy for lung and nervous diseases.....	24,270	Feb. 20	66	1306
Billings, Clapp & Co., Boston, Mass. Preparation of quinine.....	24,275	Feb. 20	66	1306
Billings, Clapp & Co., Boston, Mass. Medicinal tonic preparation.....	24,416	Mar. 27	66	2049
Billings & Spencer Company, Hartford, Conn. Machines, tools, and implements and parts thereof, consisting wholly or in part of forgings.....	24,771	May 22	67	1064
Binghamton Wagon Company, Binghamton, N. Y. Wagons and sleighs.....	24,109	Jan. 23	66	649
Binz, Charles A., and F. M. Linderman, Chicago, Ill. Belt stud or fastener.....	24,835	June 5	67	1328
Birmingham Small Arms and Metal Company, Limited, Birmingham, England. Bicycles, tricycles, velocipedes, and parts thereof.....	24,732	May 15	67	926
Black, Robert, Brooklyn, N. Y. Remedy for headache and neuralgia.....	24,644	May 1	67	674
Blackiston, William J., Denton, Md. Perfumery.....	25,461	Nov. 6	69	786
Blair & Downey, Corry, Pa. Tasteless castor-oil.....	25,539	Nov. 20	69	1065
Blair, John T., South Omaha, Nebr. Washing compound.....	25,000	July 10	68	278
Bland, Edward, Detroit, Mich. Antiseptic powders, ointments, liniments, and lotions.....	25,418	Oct. 30	69	637
Blaylock & Blynn, Philadelphia, Pa. Hats.....	24,370	Mar. 20	66	1889
Blome, George J., Baltimore, Md. Cough lozenges.....	25,579	Dec. 4	69	1357
Bloom & Son, New Orleans, La. Rice.....	25,364	Oct. 16	69	366
Bloomington Canning Company, Bloomington, Ill. Canned fruit and vegetables.....	24,214	Feb. 13	66	1164
Blumenthal, A. & S., New York, N. Y. Ribbons, piece goods, cloths, and stuffs made of silk.....	24,811	June 5	67	1326
Blyth & Co., New York, N. Y., and Rosario de Santa Fé, Argentine Republic. Canned goods, flour, meal, sugar, tea, coffee, pepper, and salt.....	25,370	Oct. 16	69	367
Boehringer & Soehne, C. F., Waldhof, near Mannheim, Germany. Iron derivatives of albumen.....	24,228	Feb. 13	66	1165
Boehringer & Soehne, C. F., Waldhof, near Mannheim, Germany. Lactyl derivatives of parphenetidin.....	24,643	May 1	67	674
Boehringer & Soehne, C. F., Waldhof, near Mannheim, Germany. Certain named medicinal and chemical compounds.....	24,869	June 12	67	1445
Boisselier, Henri, Enfield, England. Cocoa and cocoa extracts.....	25,647	Dec. 11	69	1502
Boker & Co., Hermann, New York, N. Y. Bicycles and bicycle-lamps.....	25,114	Aug. 7	68	768
Boker & Co., Hermann, New York, N. Y. Cutlery.....	25,347	Oct. 16	69	365
Boker & Co., Hermann, New York, N. Y. Razors.....	25,451	Nov. 6	69	766
Bond, Henry W., Fort Wayne, Ind. Wheat-flour.....	24,581	Apr. 24	67	525
Bonte, Charles E., Cincinnati, Ohio. Soap.....	24,993	July 10	68	278
Bonte, George H., Cincinnati, Ohio. Remedy for neutralizing the effects of intoxicants.....	24,140	Jan. 30	66	842
Boss Watch Case Company, Chicago, Ill., and New York, N. Y. Gold-filled watchcases.....	24,408	Mar. 27	66	2048
Boston Rubber Shoe Company, Boston and Malden, Mass. Rubber shoes.....	24,043	Jan. 16	66	452

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Boston Rubber Shoe Company, Boston and Malden, Mass. Rubber shoes	24,102	Jan. 23	66	649
Boston Rubber Shoe Company, Boston and Malden, Mass. Rubber boots and shoes	24,374	Mar. 20	66	1889
Bostwick, Frank E., American Fork, Utah. Hair-restoratives	24,791	May 29	67	1187
Bothfield & Weygandt, New York, N. Y. Wheat-flour	24,976	July 3	68	141
Bowers Rubber Company, San Francisco, Cal. Hose, belting, and packing	23,956	Jan. 2	66	167
Bowers Rubber Company, San Francisco, Cal. Hose, belting, and packing	23,957	Jan. 2	66	167
Bowers Rubber Company, San Francisco, Cal. Hose, belting, and packing	23,958	Jan. 2	66	167
Bowers Rubber Company, San Francisco, Cal. Hose, belting, and packing	23,959	Jan. 2	66	167
Bowers Rubber Company, San Francisco, Cal. Hose, belting, and packing	23,960	Jan. 2	66	167
Bowers Rubber Company, San Francisco, Cal. Packing, belting, and hose	23,961	Jan. 2	66	167
Bowers Rubber Company, San Francisco, Cal. Hose, belting, and packing	24,122	Jan. 30	66	841
Bowers Rubber Company, San Francisco, Cal. Hose, belting, and packing	24,123	Jan. 30	66	841
Bowlby & Co., St. Paul, Minn. Children's suits	24,838	June 12	67	1443
Boyer, Mary J., Baltimore, Md. Canned and hermetically-sealed goods	24,461	Apr. 3	67	136
Bradt, Peter P., Worcester, Mass. Remedy for kidney and liver diseases	25,026	July 17	68	411
Brady, Ann E., New York, N. Y. Eye-water	24,538	Apr. 17	67	397
Brainerd & Armstrong Company, New London, Conn. Thread and twist for embroidery, knitting, sewing, and other purposes	25,448	Nov. 6	69	786
Brainerd & Armstrong Company, New London, Conn. Thread and twist for embroidery, knitting, sewing, and other purposes	25,449	Nov. 6	69	786
Brandenburg, Gerard, Omaha, Nebr. Tap-soles and top lifts	25,042	July 24	68	529
Brandenburg, Gerard, Omaha, Nebr. Cement for use on rubber and leather	25,140	Aug. 14	68	911
Brandt & Frère, Louis, Bienne, Switzerland. Watch-movements and watchcases	25,036	July 24	68	529
Braun & Fitts, (Inc.), Chicago, Ill. Butterine	25,372	Oct. 16	69	367
Bremer's Sons, Lewis, Philadelphia, Pa. Smoking and chewing tobacco	24,025	Jan. 9	66	312
Bremer's Sons, Lewis, Philadelphia, Pa. Smoking and chewing tobacco	24,026	Jan. 9	66	313
Bridgeport Brass Company, Bridgeport, Conn. Bicycle-lantern	24,426	Apr. 10	67	267
Briggs Co., D. F., Attleborough, Mass. Watch and locket chains	24,709	May 15	67	923
Brinkerhoff, George D. (See Brinkerhoff, Samuel J. and G. D.)				
Brinkerhoff, Samuel J. and G. D., Minneapolis, Minn. Medicinal vegetable compounds for blood, liver, and kidney diseases	25,232	Sept. 11	68	1387
British Tea and Trading Association, Limited, London, England. Tea	25,654	Dec. 11	69	1503
Brooks & Co., J. B., Birmingham, England. Leather goods	24,657	May 8	67	807
Brooks, Karmell, New York, N. Y. Eggs	24,988	Mar. 20	66	1891
Brown Bros. Company, Winston, N. C. Chewing and smoking tobacco	25,395	Aug. 7	68	766
Brown Bros. Company, Winston, N. C. Chewing and smoking tobacco and cigarettes	25,096	Aug. 7	68	767
Brown, Edward H., London, England, and Paris, France. Preparation for cleaning and polishing leather	24,517	Apr. 10	67	270
Brown, Edward H., London, England, and Paris, France. Preparation for beautifying and preserving leather	24,518	Apr. 10	67	270
Brown, Edward H., London, England, and Paris, France. Preparation for preserving and beautifying leather	25,275	Sept. 25	68	1625
Brown, Edward H., London, England, and Paris, France. Preparation for cleaning and polishing leather	25,276	Sept. 25	68	1626
Buck & Co., George, New York, N. Y. Outer clothing for men and boys	25,699	Dec. 25	69	1768
Brunswick-Balke-Collender Company, Chicago, Ill. Billiard-table cushions made of rubber compound	24,237	Feb. 13	66	1166
Bryan, Miner & Read, New Haven, Conn. Canned goods	25,475	Nov. 6	69	788
Buck, Charles G., Chicago, Ill. Perfumery	24,262	Feb. 20	66	1305
Buckley, Powhattan S., Catharpin, Va. Veterinary remedies	24,236	Feb. 13	66	1166
Buffalo Milling Company, Limited, Lewisburg, Pa. Wheat-flour	24,130	Jan. 30	66	842
Burger, Adam, and F. B. Losee, Toledo, Ohio. Remedy for nervous and blood diseases	24,959	July 3	68	140
Burke, Frank G., New York, N. Y. Toilet soap	25,690	Dec. 18	69	1639
Burnett, Egerton, Wellington, England. Serges	25,560	Dec. 4	69	1356
Burnham & Morrill Company, Portland, Me. Canned lobsters	24,459	Apr. 3	67	136
Bursch, Frederick I. W., Brooklyn, N. Y. Salt	24,550	Apr. 17	67	398
Butler, James, New York, N. Y. Baking-powder	24,084	Jan. 23	66	647
Butler, James, New York, N. Y. Baking-powder	24,179	Feb. 6	66	1002
Butler, James, New York, N. Y. Tea	24,505	Apr. 10	67	269
Butler, James, New York, N. Y. Tea	25,594	Dec. 4	69	1358
Butterfield, Finley R., Concord, N. H. Remedy for indigestion, dyspepsia, and similar affections	24,319	Mar. 6	66	1591
Buzby & Bickley Company, Limited, Philadelphia, Pa. Toilet-soap paste	24,421	Mar. 27	66	2049
Buzby & Bickley Company, Limited, Philadelphia, Pa. Oil soap for manufacturing and domestic purposes	24,422	Mar. 27	66	2049
Byck Bros., New York, N. Y. Overcoats	25,339	Oct. 16	69	364
C. B. Woodworth Sons Company, Rochester, N. Y., Boston, Mass., and Chicago, Ill. Perfumeries, toilet waters, sachet-powders, and toilet soap	24,896	June 19	67	1568
C. C. Kraemer Company, Brooklyn, N. Y. Cod-liver oil	24,014	Jan. 9	66	311
C. F. Sauer Company, Richmond, Va. Flavoring extracts and baking-powder	25,222	Sept. 11	68	1386
C. L. Cotton Perfume and Extract Company, Earlville, N. Y. Perfumery	24,225	Feb. 13	66	1165
Cady, Byron E., Springfield, Mass. Cigars	24,515	Apr. 10	67	270
Caiger, Elizabeth, Boston, Mass. Washing fluid	25,226	Sept. 11	68	1387
California Eucalyptus Co., Riverside Cal. Medicinal lozenges or tablets	24,789	May 29	67	1187
California Olive Oil Soap Company, New York, N. Y. Castile-soap	24,293	Mar. 6	66	1589
Callard & Bowser, London, England. Candies and sweetmeats	24,507	Apr. 10	67	269
Callard & Bowser, London, England. Confectionery	24,620	May 1	67	672
Calm & Bro., M., New York, N. Y. Cod-liver oil	24,349	Mar. 13	66	1753
Calm & Bro., M., New York, N. Y. Castor-oil	24,473	Apr. 3	67	137
Campbell, James P., Bridgeport, Conn. Medicinal lotions	25,134	Aug. 14	68	911
Canfield Rubber Company, Bridgeport, Conn., and New York, N. Y. Dress-shields	24,208	Feb. 13	66	1163
Cape Vincent Seed Company, Limited, Cape Vincent, N. Y. Dried split peas	25,208	Sept. 4	68	1272
Carballo, Luis J. de, New York, N. Y. Dentifrice	24,640	May 1	67	674
Carénou & Tur, Moussac, France. Licorice roots, sticks, paste, and pellets	25,421	Oct. 30	69	637
Carlyle, John M. (See Carlyle, Thomas and J. M.)				
Carlyle, Thomas and J. M., Birmingham, England. Certain named metal articles	25,508	Nov. 13	69	942
Carmody, John, New York, N. Y. Salve	25,024	July 17	68	410
Carnahan, John M., Faulkner, Kans. Tree-wash and insect-destroyer	25,641	Dec. 11	69	1502
Carrick, John, New York, N. Y. Remedy for indigestion and dyspepsia	25,131	Aug. 14	68	910
Carr & Sons, James, Manchester, England. Blind-ladder tapes	25,742	Dec. 25	69	1771
Carroll, Henry A., Memphis, Tenn. White lead	25,432	Oct. 30	69	638
Carson, Jason W., Indiana, Pa. Medicine for cholera or diarrhea	24,199	Feb. 6	66	1004
Carstairs, McCall & Co., Philadelphia, Pa. Whisky	25,424	Oct. 30	69	637
Carstairs, McCall & Co., Philadelphia, Pa. Whiskies	25,529	Nov. 13	69	944
Carter, Frank E., and C. S. Jones, Boston, Mass. Liniment, worm-powders, and elixirs for diarrhea	24,471	Apr. 3	67	137

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Cartun, Jacob, Philadelphia, Pa. Whisky.....	24,170	Feb. 6	66	1001
Catlin & Co., New York, N. Y. Certain named dress goods and linings.....	25,261	Sept. 25	68	1624
Celluloid Company, Newark, N. J. Waterproof collars and cuffs.....	24,034	Jan. 9	66	313
Centemeri & Co., P. New York, N. Y., and Milan, Italy. Kid gloves.....	24,161	Feb. 6	66	1000
Central Cycle Manufacturing Company, Indianapolis, Ind. Bicycles, sulkies, road-carts, and light or pleasure vehicles.....	25,005	July 10	68	278
Central Oil and Supply Company, New York, N. Y. Lubricating-grease.....	24,401	Mar. 20	66	1892
Central Oil and Supply Company, New York, N. Y. Tie-plates.....	24,936	June 26	67	1718
Ceylon Spice Co., Philadelphia, Pa. Tapioca.....	24,549	Apr. 17	67	598
Chadbourne & Moore, Boston, Mass. Shoe-goring.....	25,387	Oct. 23	69	505
Chadbourne & Moore, Boston, Mass. Shoe-goring.....	25,388	Oct. 23	69	505
Chambers Glass Company, New Kensington, Pa. Plain or ground sheet-glass.....	24,558	Apr. 17	67	399
Chambers Glass Company, New Kensington, Pa. Plain, ground, or chipped sheet-glass.....	24,559	Apr. 17	67	399
Chambers Glass Company, New Kensington, Pa. Plain, ground, or chipped sheet-glass.....	24,560	Apr. 17	67	399
Chambers Glass Company, New Kensington, Pa. Plain, ground, or chipped sheet-glass.....	24,561	Apr. 17	67	399
Chapman, Ellwood B., Philadelphia, Pa. Perfumeries.....	25,352	Oct. 16	69	365
Chapman & Rodgers, Philadelphia, Pa. Perfumeries.....	25,699	Dec. 18	69	1639
Charles E. Hires Company, Philadelphia, Pa. Root-beer.....	24,058	Jan. 16	66	454
Charles H. Phillips Chemical Company, New York, N. Y. Preparation of magnesia.....	24,049	Jan. 16	66	453
Charles H. Phillips Chemical Company, New York, N. Y. Essential oils and chemicals.....	24,395	Mar. 20	66	1291
Charles Stern & Sons, New York, N. Y., Chicago, Ill., and Boston, Mass. Wines, liquors, cordials, beer, and ale.....	25,318	Oct. 9	69	239
Charleston, S. C. Mining and Manufacturing Company, Philadelphia, Pa. Fertilizer.....	24,154	Jan. 30	66	844
Chase Co., Dr., Philadelphia, Pa. Certain named remedies.....	24,686	May 8	67	809
Chattanooga Medicine Company, Chattanooga, Tenn. Chewing-gum.....	25,284	Oct. 2	69	117
Chemische Fabrik auf Actien, (vormals E. Schering,) Berlin, Germany. Antiseptics.....	24,168	Feb. 6	66	1003
Chemische Fabrik Hermann und Adolf Lubuszyński, Berlin, Germany. Polishing preparations.....	25,430	Oct. 30	69	637
Cheney, Frank J., Toledo, Ohio. Remedy for catarrh.....	25,081	July 31	68	654
Cheney, Gardner S., Boston, Mass. Liquid medicinal compound for external and internal use.....	24,234	Feb. 13	66	1165
Chesapeake Oil Co., Baltimore, Md. Confectioners' oil dressing.....	24,547	Apr. 17	67	398
Chicago Fire Arms Company, Chicago, Ill. Revolving pistols.....	24,801	May 29	67	1188
Christian Moerlein Brewing Company, Cincinnati, Ohio. Lager-beer.....	24,502	Apr. 10	67	269
Christopher Lipps Company, Baltimore, Md. Soap in cakes or bars.....	24,292	Mar. 6	66	1589
Christopher Lipps Company, Baltimore, Md. Soap in cakes or bars.....	24,494	Apr. 10	67	268
Church & Co., Wm., St. Paul, Minn. Compounds for protecting and beautifying walls and ceilings.....	24,358	Mar. 13	66	1754
Churchill Drug Company, Burlington, Iowa. Poison for rats.....	25,709	Dec. 25	69	1768
Cincinnati Syrup and Molasses Company, Cincinnati, Ohio. Sorghum.....	23,972	Jan. 2	66	168
Claremont California Fruit Growers' Association, Claremont, Cal. California fruits.....	24,176	Feb. 6	66	1002
Clark, Charles B., Newark, N. J. Bicycles, velocipedes, their parts and attachments.....	24,613	Apr. 24	67	528
Clark, Henry, Buffalo, N. Y. Certain named remedies.....	25,706	Dec. 25	69	1768
Clark, Samuel B., New York, N. Y. Celery biscuit.....	24,455	Apr. 3	67	135
Clarkson & Dallas, Pittsburg, Pa. Illuminating-oils and lubricating oils and greases.....	24,638	May 8	67	809
Clawson, Clement C., Newark, N. J. Coin controlled and operated machines and apparatus.....	24,772	May 22	67	1064
Cleveland Fence Company, Indianapolis, Ind. Fence-wire.....	24,960	July 3	68	142
Cleveland Axle Manufacturing Company, Canton, Ohio. Vehicle-axles.....	24,836	June 5	67	1328
Cleveland Baking Powder Company, Brooklyn, N. Y. Wheat-flour.....	24,637	May 1	67	673
Cleveland Brothers, Binghamton, N. Y. Baking-powder.....	24,178	Feb. 6	66	1002
Cleveland Faucet Company, Cleveland, Ohio. Air-pumps.....	24,800	May 29	67	1188
Cleveland Foundry Company, Cleveland, Ohio. Oil, gas, or vapor stoves.....	24,028	Jan. 9	66	313
Cleveland Gum Company, Cleveland, Ohio. Chewing-gum.....	24,666	May 8	67	808
Clifton & Co., E., Philadelphia, Pa. Varnish-brushes.....	24,106	Jan. 23	66	649
Clinton Wire Cloth Company, Clinton, Mass. Wire-cloth.....	25,535	Nov. 20	69	1065
Clover Leaf Wine Co., New York, N. Y. Whisky, wines, liquors, brandies, and champagnes.....	24,139	Jan. 30	66	842
Clover Medicine Company, Augusta, Me. Balsams and ointment.....	24,757	May 22	67	1063
Cobb, Samuel T., Jr., Boston, Mass. Metal and glass cleaning and polishing preparations.....	24,684	May 8	67	809
Cohen, Benjamin F., Baltimore, Md. Mineral water.....	24,987	July 10	68	277
Cole & Co., G. W., New York, N. Y. Cleaning and polishing compounds.....	25,733	Dec. 25	69	1771
Colebrookdale Iron Company, Pottstown and Colebrookdale Station, Pa. Sad-irons.....	25,082	July 31	68	654
Collamore, Williams, Boston, Mass. Soap for cleaning metals, paint, and glass.....	25,074	July 31	68	653
Colliery Engineer Company, Scranton, Pa. Books, pamphlets, newspapers, and other publications.....	25,438	Nov. 6	69	785
Collins Company, Collinsville, Conn. Edge-tools.....	24,030	Jan. 9	66	313
Collins Company, Canton, Conn. Certain named edge tools.....	24,074	Jan. 16	66	455
Collins Company, Canton, Conn. Machinists' tools.....	24,433	Mar. 27	66	2050
Collins Company, Canton, Conn. Machinists' tools.....	24,434	Mar. 27	66	2050
Collins Company, Canton, Conn. Machinists' tools.....	24,695	May 8	67	810
Collins Company, Canton, Conn. Earth-working tools.....	24,731	May 15	67	926
Collins Company, Canton, Conn. Machinists' tools.....	24,769	May 22	67	1064
Collins Company, Canton, Conn. Earth-working tools.....	24,770	May 22	67	1064
Collins Company, Canton, Conn. Axes and other tools.....	24,702	May 29	67	1188
Collins Company, Canton, Conn. Plows, shovels, spades, hoes, picks, and mattocks.....	24,803	May 29	67	1188
Collins, Hester H., New York, N. Y. Ink-erasing fluid.....	24,601	Apr. 24	67	527
Collison, John H., Baltimore, Md. Raw and processed oysters.....	24,008	Jan. 9	66	311
Colman, J. & J., London, England. Starch.....	24,089	Jan. 23	66	647
Colman, J. & J., London, England. Mustard and mustard products.....	25,731	Dec. 25	69	1770
Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Pistols, rifles, and sporting-guns.....	24,696	May 8	67	810
Columbia Paper Bag Company, Baltimore, Md. Paper bags.....	24,032	Jan. 9	66	313
Columbian Medicine Company, Akron, Ohio. Cough tablets.....	25,052	July 24	68	531
Columbian Peanut Company, Norfolk, Va. Peanuts.....	24,251	Feb. 20	66	1304
Columbus Closet Company, Columbus, Ohio. Water-closet bowls.....	24,366	Mar. 13	66	1754
Columbus Closet Company, Columbus, Ohio. Water-closet bowls.....	24,367	Mar. 13	66	1754
Comar et Fils & Cie., F., Paris, France. Medicinal wines.....	24,536	Apr. 17	67	397
Commercial Wood and Cement Company, Philadelphia, Pa. Portland cement.....	24,969	July 3	68	141
Cone Export and Commission Company, New York, N. Y. Denims and camlets.....	24,333	Mar. 13	66	1752
Cone Export and Commission Company, New York, N. Y. Denims and camlets.....	24,334	Mar. 13	66	1752
Cone Export and Commission Company, New York, N. Y. Cotton dress goods and shirtings.....	24,812	June 5	67	1326
Cone Export and Commission Company, New York, N. Y. Cotton dress goods and shirtings.....	24,813	June 5	67	1326
Connecticut Witch Hazel Company, Chester, Conn. Witch-hazel distillate.....	24,314	Mar. 6	66	1591
Conrad, Jacob, Philadelphia, Pa. Lager-beer.....	24,852	June 12	67	1444
Conradi & Friedemann, Limbach, Germany. Muslin, knit, and woven underwear.....	24,036	Jan. 9	66	314
Contentin & Son, Louis, New York, N. Y. Oranges, lemons, and walnuts.....	25,069	July 31	68	652
Cook, Francis L., Springfield, Mass. Pneumatic wheel-tires.....	24,766	May 22	67	1063
Cooke, William A., Jr., New York, N. Y. Box-files for holding papers.....	25,739	Dec. 25	69	1771
Cora Fratelli, Giuseppe & Luigi, Turin, Italy. Vermouth.....	24,535	Apr. 17	67	397

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Corbin & Son, B. A., Webster, Mass. Leather boots and shoes	24,570	Apr. 24	67	524
Corbit, William H., New York, N. Y. Remedy for rheumatism, gout, and lumbago	24,259	Feb. 20	66	1305
Cornell, Charles E., New York, N. Y. Toilet soap and lotions	24,587	Apr. 24	67	526
Corning & Company, Peoria, Ill. Gin	24,383	Mar. 20	66	1890
Corning & Company, Peoria, Ill. Whisky	24,384	Mar. 20	66	1890
Coronet Corset Company, Jackson, Mich. Corsets, waists, dress-stays, bustles, and bust-forms	24,704	May 15	67	923
Corporation of Christian Feigenspan, Newark, N. J. Lager-beer	25,202	Sept. 4	68	1271
Cotzhausen, Alfred von, Milwaukee, Wis. Crystalline pictures	25,572	Dec. 4	69	1357
Coutts & Sons, Toronto, Canada. Acetic acid	24,048	Jan. 16	66	453
Coventry Company, Providence, R. I. Cotton goods	24,209	Feb. 13	66	1163
Coventry Company, Providence, R. I. Cotton goods	24,210	Feb. 13	66	1163
Covert, James C., West Troy, N. Y. Harness-snaps	24,879	June 12	67	1446
Crampton, J. Miller, New York, N. Y. Medicinal tablets	24,724	May 15	67	925
Crane & Co., Dalton, Mass. Writing-paper	24,921	June 5	67	1327
Crane & Co., Dalton, Mass. Certain named paper	24,882	June 19	67	1567
Crane & Co., Dalton, Mass. Writing and other paper	24,883	June 19	67	1567
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelopes	24,104	Jan. 23	66	649
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelopes	24,105	Jan. 23	66	649
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelopes	24,156	Feb. 6	66	1000
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelopes	24,444	Apr. 3	67	134
Crescent Electric Machine Company, Brooklyn, N. Y. Electrical machines, apparatus, and supplies	25,234	Sept. 11	68	1388
Crescent Manufacturing Company, St. Louis, Mo. Rubber packing-rings	25,661	Dec. 11	69	1504
Crescent Remedy Co., Limited, Indianapolis, Ind. Remedies for cutaneous diseases	25,027	July 17	68	411
Cross & Beguelin, New York, N. Y. Watches	24,117	Jan. 30	66	841
Crossman & Bro., W. H., New York, N. Y. Lubricating-oils	25,297	Oct. 2	69	117
Crossman & Bro., W. H., New York, N. Y. Cotton-seed, olive, and other food oils	25,371	Oct. 16	69	367
Cruckshank, Arthur B., San Francisco, Cal., and London, England. Syringes	24,348	Mar. 13	66	1753
Crystal Confectionery Company, Burlington, Vt. Candied fruits and confectionery	25,515	Nov. 13	69	942
Crystal Springs Manufacturing Company, Watertown, Mass. Wheat starch	25,596	Dec. 4	69	1359
Crystal Water Company, Limited, Bay City, Mich. Certain named beverages	25,651	Dec. 11	69	1503
Crystalline Salt Company, Boston, Mass. Salt	24,006	Jan. 9	66	310
Crystalline Salt Company, Boston, Mass. Salt	24,007	Jan. 9	66	311
Cukor, Joseph, New York, N. Y. Cognac	24,626	May 1	67	672
Cummings, Son & Co., Josiah, Boston, Mass. Fiber, leather-board, leatheroid, and trunks and other articles made therefrom	24,843	June 12	67	1443
Cunningham Manufacturing Company, Kingston, N. Y. Compound adapted as a substitute for eggs	25,180	Aug. 28	68	1140
Currie Fertilizer Company, Louisville, Ky. Smoking-tobacco	25,528	Nov. 13	69	945
Curtin, James C., Buenos Ayres, Argentine Republic, and New York, N. Y. Lubricating-oils	25,277	Sept. 25	68	1626
Curtis & Curtis, Bridgeport, Conn. Pipe threading and cutting machines	24,125	Jan. 30	66	841
Curtis, George E., Philadelphia, Pa. Roller-skates	24,645	May 1	67	674
Curtis, George S., Peabody, Mass. Liniment	25,162	Aug. 7	68	767
Cushman, Belle V., New York, N. Y. Toilet soap	24,895	June 19	67	1568
Daggett & Ramsdell, New York, N. Y. Remedy for certain affections of the skin	24,144	Jan. 30	66	843
Dahl & Co., Barmen, Germany. Medical compound for the cure of neuralgic and rheumatic complaints	24,357	Mar. 13	66	1754
Dahlhaus, Emilio, Mexico, Mexico. Topical remedy for toothache, neuralgia, burns, and wounds	24,192	Feb. 6	66	1003
Daisy Roller Mill Company, Milwaukee and Superior, Wis. Wheat-flour	25,161	Aug. 21	68	1019
Dallinger, Frank W., Boston, Mass. Coffee	24,917	June 26	67	1716
Daniels & Co., J. C., Middletown, Ind. Wheat-flour	24,000	Jan. 9	66	310
Daniels, William H., Ogdensburg, N. Y. Crackers	25,718	Dec. 25	69	1769
Darby Manufacturing Company of Baltimore City, Baltimore, Md. Chocolate creams, caramels, and candies	24,575	Apr. 24	67	524
Darrow Publishing Co., W. J., Cleveland, Ohio. Pass-books	24,774	May 29	67	1186
Davis, Charles H., New York, N. Y. Preparation for the cure of indigestion	25,055	July 24	68	531
Davis & Co., Wilbur H., Boston, Mass. Felt footwear	25,486	Nov. 13	69	940
Davis, Francis G., Watertown, N. Y. Metal clasps for securing underclothing	24,437	Apr. 3	67	134
Davis & Son, James C., Boston, Mass. Washing-powders	25,536	Nov. 20	69	1065
De Jean, Anson W., Minneapolis, Minn. Medicinal compound for the prevention and cure of diphtheria	24,498	Apr. 10	67	268
De Langle, Charles F. J. P., Lynn and Boston, Mass. Tonic	24,018	Jan. 9	66	312
De Rogy, Eugene, Newark, N. J. Finger-rings	24,072	Jan. 16	66	455
Dearinger, Frank B., and C. S. Niemier, Indianapolis, Ind. Tools and implements for making artificial-stone and cement pavements, &c.	25,258	Sept. 18	68	1518
Deephouse, Cornelius, Le Mars, Iowa. Medicinal plasters for rheumatism	25,496	Nov. 13	69	941
Deer, Hannah M., Jersey City, N. J. Certain named medicine	25,504	Nov. 13	69	942
Dehamme-Deletrre Brush Company, New York, N. Y. Plastic material for certain named purposes	25,138	Aug. 14	68	911
Dehner, Andy, Burlington, Iowa. Cigars	24,948	July 3	68	139
Dennison Manufacturing Company, Boston, Mass. Tags and labels	24,369	Mar. 20	66	1889
Dessar, Leonard A., New York, N. Y. Vessels for physicians' and surgeons' use	24,878	June 12	67	1446
Dessar, Leonard A., New York, N. Y. Vessels for physicians' and surgeons' use	24,903	June 19	67	1569
Derlin, John A., Friday Harbor, Wash. Canned salmon	25,374	Oct. 16	69	367
Dexter Shoe Company, Saco, Me., and Boston, Mass. Boots, shoes, and slippers	24,375	Mar. 20	66	1889
Dexter Woolen Mills, Boston, Mass. Repellents or waterproof cloth	24,842	June 12	67	1443
Dexter Yarn Company, Pawtucket, R. I. Knitting-cotton	24,121	Jan. 30	66	841
Diamond Dust Soap Powder Co., Savannah, Ga. Soap powder	25,103	Aug. 7	68	767
Diamond Plaster Company, Chicago, Ill. Hard plaster and cement for building purposes	25,002	July 10	68	278
Dietrich & Co., J., San Antonio, Tex. Soap for laundry and household cleansing purposes	25,156	Aug. 21	68	1019
Dippo Manufacturing Company, Cleveland, Ohio. Alloy of metal	25,696	Dec. 18	69	1640
Dittman & Krug, Chicago, Ill. Certain named specialties	24,763	May 22	67	1063
Doig, William S., Brooklyn, N. Y. Box-nailing machine	24,520	Apr. 10	67	270
Dolge & Son, Alfred, New York, N. Y. Piano tuning-pins	25,435	Oct. 30	69	632
Dorf, Samuel, Baltimore, Md. Whisky	24,278	Feb. 27	66	1446
Dorfinger & Sons, C., White Mills, Pa., and New York, N. Y. Cut glassware	25,350	Oct. 16	69	365
Dort, Elizabeth, Buffalo, N. Y. Stomachic and carminative medicine	24,827	June 5	67	1328
Dougherty, Thomas E., Chicago, Ill. Filling for pies	25,719	Dec. 25	69	1769
Dougherty, Thomas E., Chicago, Ill. Filling for pies	25,720	Dec. 25	69	1769
Downard, Frank A., Columbus, Ohio. Molders' tools	24,612	Apr. 24	67	528
Dr. Kilmer & Co., Binghamton, N. Y. Certain named medicines	25,455	Nov. 6	69	786
Dr. Kilmer & Co., Binghamton, N. Y. Pills	25,456	Nov. 6	69	786
Dr. Kilmer & Co., Binghamton, N. Y. Ointments	25,493	Nov. 13	69	941
Dr. Kilmer & Co., Binghamton, N. Y. Certain named remedies	25,494	Nov. 13	69	941
Dr. Kilmer & Co., Binghamton, N. Y. Certain named remedies	25,637	Dec. 11	69	1501

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Drs. Reynolds & Reynolds, San Antonio and Dallas, Tex. Preparation of oils for chronic, malignant, and lung diseases.	24,015	Jan. 9	66	311
Drefs, Charles A., Buffalo, N. Y. Corn-plasters, pills, nervines, cough mixtures, headache-powders, and cod-liver oil.	24,593	Apr. 24	67	526
Drumbeller, Francis E., Sunbury, Pa. Remedy for the asthma.	21,787	May 29	67	1187
Drybread, Seneca S., Taylorsville, Ind. Wheat-flour.	25,365	Oct. 16	69	366
Ducker, James O., W. T. Findly, and G. Harvey, Louisiana, Mo. Certain named remedies.	21,233	Feb. 13	66	1165
Dudley, Battelle & Hurd, New York, N. Y. Brown and bleached sheetings and sbirtings.	24,841	June 12	67	1443
Duluth Imperial Mill Company, Duluth, Minn. Wheat-flour.	25,516	Nov. 13	69	943
Dunham, Carrigan & Hayden Company, San Francisco, Cal. Certain named cutlery.	24,610	Apr. 24	67	528
Dunham, Frank A., Brockton, Mass. Welt-trimmers.	25,405	Oct. 23	69	506
Dunne, Frank L., Boston, Mass. Men's outer clothing.	25,564	Dec. 4	69	1356
Durand, Huguenin & Co., L., Basle, Switzerland. Dye-stuffs.	24,277	Feb. 27	66	1146
Durand, Huguenin & Co., L., Basle, Switzerland. Pharmaceutical product.	24,315	Mar. 6	66	1591
Durand, Huguenin & Co., L., Basle, Switzerland. Pharmaceutical product.	24,316	Mar. 6	66	1591
Duryca, Watts & Company, Limited, New York, N. Y. Wheat-flour.	21,082	Jan. 23	66	647
Dysmenotone Co., Camden, N. J. Certain named remedies.	21,097	Jan. 23	66	648
E. A. Butts Company, Washington, D. C., New York, N. Y., and Chicago, Ill. Remedies for constipation and diseases of the liver and kidneys.	23,983	Jan. 2	66	169
E. Cusenier Fils Ainé & Compagnie, Paris, Orlans, Charenton, and Marseilles, France, Mulhouse, Germany, and Brussels, Belgium. Crème de menthe.	24,642	May 1	67	674
E. & H. T. Anthony & Company, New York, N. Y. Paper.	25,117	Aug. 14	68	909
E. & H. T. Anthony & Company, New York, N. Y. Paper.	25,118	Aug. 14	68	909
E. Stabbins Manufacturing Company, Springfield, Mass. Fancets.	24,804	May 29	67	1158
Eagle and Phenix Manufacturing Company, Columbus, Ga. Cotton plaids and stripes.	24,839	June 12	67	1443
Eagle Bicycle Manufacturing Company, Torrington, Conn. Velocipedes.	23,954	Jan. 2	66	167
Eagle Shoe Oil Polish Co., Eagle Rock, Va. Shoe oil polish.	25,013	July 17	68	409
Eastman, Erving L., Peabody, Mass. Nerve tonic.	24,690	May 8	67	810
Eaton, Cole & Burham Company, Bridgeport, Conn. Hose-nozzles.	25,695	Dec. 18	69	1640
Eaton & Hobbs, Lynn, Mass. Manufactured pop-corn and candy of all kinds.	24,740	May 22	67	1061
Eddy & Sons, D., Boston, Mass. Refrigerators.	24,325	Mar. 6	66	1592
Edwards & Guhl Produce Company, Chicago, Ill. Saue-krant.	24,059	Jan. 16	66	454
Eggols & Co., Henry, New York, N. Y. Canned salmon.	24,127	Jan. 30	66	841
Eggoline Manufacturing Co., New York, N. Y. Coloring for pastry, buns, cakes, and icing.	23,974	Jan. 2	66	169
Eisendath, Joseph N., Chicago, Ill. Leather for wearing-apparel and belting and valve leather.	24,164	Feb. 6	66	1000
Electric Storage Battery Company, Gloucester City, N. J., and Philadelphia, Pa. Plates or elements for secondary or storage batteries.	25,235	Sept. 11	68	1388
Elgin Butter Company, Elgin, Ill. Butter.	24,217	Feb. 13	66	1164
Elgin Creamery Company, Chicago and Elgin, Ill. Butter.	25,470	Nov. 6	69	787
Elji Pettijohn Cereal Company, Minneapolis, Minn. Wheaten breakfast food.	21,974	July 3	68	141
Ellin & Co., Thomas, Sheffield, England. Cutlery and edge-tools.	25,507	Nov. 13	69	942
Ellin & Co., Thomas, Sheffield, England. Cutlery and edge-tools.	25,509	Nov. 13	69	942
Elsworth & Co., Edward, New York and Buffalo, N. Y. Flour, meal, and crushed cereals.	24,061	Jan. 16	66	454
Elsworth & Co., Edward, New York and Buffalo, N. Y. Flour, meal, and crushed cereals.	24,062	Jan. 16	66	454
Elsworth & Co., Edward, New York and Buffalo, N. Y. Flour, oatmeal, and crushed cereals.	24,551	Apr. 17	67	398
Emigh & Lobdell, New York, N. Y. Collars and cuffs.	25,337	Oct. 16	69	364
Emil Winter Company, Allegheny and Pittsburg, Pa. Beef, mutton, veal, pork, ham, sausage, and cured meats.	24,753	Mar. 22	67	1062
Emil Winter Company, Allegheny and Pittsburg, Pa. Fertilizers.	24,762	May 22	67	1063
Emil Winter Company, Allegheny and Pittsburg, Pa. Animal grease and oils.	24,923	June 26	67	1717
Emin Pasha Drug Co., Chicago, Ill. Powders, tablets, pills, bleaches, salves, liniments, oils, pastes, herbs, and bitters.	25,100	Aug. 7	68	767
Empire Mill Company, St. Louis, Mo. Wheat-flour.	24,129	Jan. 30	66	842
English, Belcher & Co., Martinsville, Va. Smoking-tobacco and cigarettes.	25,464	Nov. 6	69	786
Enterprise Soap Works, Nashville, Tenn. Laundry and toilet soap.	25,644	Dec. 11	69	1502
Eppenstein & Co., M. C., Chicago, Ill. Silver tableware.	21,525	Apr. 17	67	396
Eschmann, Frederick W. R., Yonkers, N. Y. Antiseptic and germicidal preparation.	25,575	Dec. 4	69	1357
Eschmann, Frederick W. R., Yonkers, N. Y. Tonic.	25,578	Dec. 4	69	1357
Esilman & Nield, New York, N. Y. Acids for acidulating sirups and beverages.	25,071	July 31	68	653
Estey Organ Company, Brattleborough, Vt. Reed-organs.	24,729	May 15	67	926
European Weston Electrical Instrument Company, Newark, N. J. Apparatus for the measurement of electrical charge or current.	24,430	Mar. 27	66	2050
Evans, Oliver C., Kansas City, Mo. Cheese.	25,209	Sept. 4	68	1272
Everett, Anghenbaugh & Co., Waseca, Minn. Wheat-flour.	24,180	Feb. 6	66	1002
Everett, Anghenbaugh & Co., Waseca, Minn. Wheat-flour.	25,127	Aug. 14	68	910
Everett Mills, Lawrence, Mass. Denims, tickings, cotton flannels, cotton dress goods, and cottonades.	24,328	Mar. 13	66	1751
Ewart, George, London, England. Certain named apparatus for warming and heating water.	25,278	Sept. 25	68	1626
Excelsior Manufacturing Company, Logansport, Ind. Medicinal preparations for the hair and scalp.	24,897	June 19	67	1568
F. R. Rice Mercantile Cigar Company, St. Louis, Mo. Cigars.	25,530	Nov. 13	69	944
Fairbanks, John A., Boston, Mass. Whisky and whisky compounds.	24,663	May 8	67	807
Fairbanks, Morse & Company, Chicago, Ill., and Beloit, Wis. Windmills.	24,479	Apr. 3	67	138
Fairbanks, Morse & Company, Chicago, Ill., and Beloit, Wis. Windmills.	24,480	Apr. 3	67	138
Farbenfabriken, vormals Fr. Bayer & Co., Elberfeld, Germany. Pharmaceutical products.	21,722	May 15	67	925
Farnsworth, Thomas W., Boston, Mass. Clothing for men and boys.	25,667	Dec. 18	69	1637
Farrell, John T., Providence, R. I. Blood-purifiers.	24,784	May 29	67	1187
Farwell & Rhines, Watertown, N. Y. Flour and prepared cereals.	24,919	June 26	67	1717
Father Lebreton Eye Water Company, Indianapolis, Ind. Eye-water.	24,350	Mar. 13	66	1753
Faultless Chemical Company, Baltimore, Md. Chewing-gum.	21,249	Feb. 20	66	1304
Faultless Chemical Company, Baltimore, Md. Chewing-gum.	24,345	Mar. 13	66	1753
Faultless Chemical Company, Baltimore, Md. Chewing-gum.	24,390	Mar. 20	66	1891
Faultless Chemical Company, Baltimore, Md. Chewing-gum.	24,741	May 22	67	1061
Fawcett, Hughes, New York, N. Y. Shoe-laces and braid.	24,120	Jan. 30	66	841
Fearey, William H., Albany, N. Y. Boots and shoes.	24,441	Apr. 3	67	134
Fearey, William H., Albany, N. Y. Boots and shoes.	21,442	Apr. 3	67	134
Federmeier, Leon P., Chicago, Ill. Hair tonic.	23,979	Jan. 2	66	169
Fels & Co., Philadelphia, Pa. Soap for antiseptic and disinfecting purposes.	25,272	Sept. 25	68	1625
Fenlin, John M., Philadelphia, Pa. Finished kid.	25,450	Nov. 6	69	786
Fenton Metallic Manufacturing Company, Jamestown, N. Y. Cycles.	24,169	Feb. 6	66	1001
Fernow, John A. W., St. Louis, Mo. Barley and malt extracts and carbonated beverages.	21,223	Feb. 13	66	1165
Fiberloid Company, Newburyport, Mass. Plastic composition and collars and cuffs made therefrom.	25,151	Aug. 21	68	1018
Fiberloid Company, Newburyport, Mass. Collars and cuffs made of pyroxylin materials.	25,230	Oct. 2	69	119
Fienhold, Edward H., Philadelphia, Pa. Remedy for conghs, colds, consumption, and other diseases of the throat and lungs.	24,318	Mar. 6	66	1591

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Findly, William T. (See Ducker, Findly, and Harvey.)				
Finkelpearl, Henry, Pittsburg, Pa. Pharmaceutical preparation for the skin	24,191	Feb. 6	66	1003
Finlayson, Bonsfield & Co., Johnstone, Scotland, and Grafton and Boston, Mass. Linen and hemp yarns and threads	25,171	Aug. 28	68	1139
Finlayson, Bonsfield & Co., Johnstone, Scotland, and Grafton and Boston, Mass. Linen and hemp yarns and threads	25,241	Sept. 18	68	1515
Fisher & Fairbanks, Boston, Mass. Medicinal preparation for the cure of coughs, consumption, summer complaint, and kidney diseases	24,899	June 19	67	1569
Fitz, Eustace C., Chelsea and Mansfield, Mass. Heaters, furnaces, ranges, and stoves, and parts of and appliances for the same	24,937	June 26	67	1718
Fitzgerald, David H., Brockton, Mass. Boots, shoes, and slippers	25,172	Aug. 28	68	1139
Fixmer, John P., Springfield, Ill. Stomach bitters	25,540	Nov. 20	69	1066
Fletcher & Son, Robert, Stoneclough, England. Paper of every description	24,938	July 3	68	138
Fletcher & Son, Robert, Stoneclough, England. White and colored tissue and copying papers	25,196	Sept. 4	68	1271
Fletcher & Son, Robert, Stoneclough, England. Grass-bleached and silver tissue-paper	25,197	Sept. 4	68	1271
Florence Manufacturing Company, Northampton, Mass., New York, N. Y., and Chicago, Ill. Hair and clothes brushes	24,527	Apr. 17	67	396
Floto's Sons, George, Brooklyn, N. Y. Essence for use with coffee	24,503	Apr. 10	67	269
Foley & Co., Chicago, Ill. Line of proprietary preparations	24,539	Apr. 17	67	397
Folke, Netta A. C., New York, N. Y. Tonics for the hair	24,098	Jan. 23	66	648
Foot, Annie, New York, N. Y. Metal-polish	25,076	July 31	68	653
Foot, Charles E., and C. C. Jenks, Jackson, Mich. Perfumeries, soap, and toilet preparations for the hair, skin, and teeth	24,963	July 3	68	140
Forbes, Brother & Co., St. Louis, Mo. Baking-powder	24,997	July 3	68	142
Forbes & Co., J. P., San Francisco, Cal., and Chicago, Ill. Natural mineral water	25,506	Apr. 10	67	269
Forest & Co., J. St. Etienne, France. Silk and velvet fabrics and ribbons	25,243	Sept. 18	68	1516
Forsyth & Co., Passaic, N. J. Internal remedy for colds	25,638	Dec. 11	69	1501
Poster Bros. Manufacturing Company, Utica, N. Y., Baltimore, Md., and St. Louis, Mo. Spring-beds	25,256	Sept. 18	68	1517
Foster, Clarence, Baltimore, Md. Salves, ointments, liniments, and powders	24,692	May 8	67	810
Fourgaud, Eugène, Asnières, France. Cleaning and polishing preparation for use on wood and metal	24,905	June 19	67	1569
Fournier, Gaëtan, Paris, France. Diuretics	24,929	Feb. 13	66	1165
Fowler Brothers, Limited, New York, N. Y., and Chicago, Ill. Lard	25,556	Nov. 27	69	1206
Fowles Brothers & Co., London, England. Leather gloves and fabric and woolen gloves, cuffs, and mittens	25,554	Nov. 27	69	1206
Fox, Emanuel E., New York, N. Y. Toilet and laundry soap	24,150	Jan. 30	66	843
Francis Manufacturing Company, Niagara Falls, N. Y. Hooks and eyes	25,040	July 24	68	529
Francis Medicine Co., Nashville, Tenn. Liver-pills	24,829	June 5	67	1328
Francis T. Witte Hardware Company, New York, N. Y. Refrigerators	24,908	June 19	67	1570
Francisco, Stephen, Montclair, Caldwell, Newark, and the Oranges, N. J. Milk for infants and invalids	25,368	Oct. 16	69	366
Frederick Stearns & Company, Detroit, Mich. Prepared meat juices and iron	25,992	Jan. 2	66	170
Freedman & Knight, London, England. Domestic water-filters	25,112	Aug. 7	68	768
Frœhlich, David, New York, N. Y. Furniture consisting of beds, bureaus, buffets, chiffoniers, &c	23,952	Jan. 2	66	167
Fruen, William H., Minneapolis, Minn. Rolled oats	25,110	Aug. 7	68	768
Fruen, William H., Minneapolis, Minn. Rolled oats	25,469	Nov. 6	69	787
Fruen, William H., Minneapolis, Minn. Rolled wheat	25,522	Nov. 13	69	943
Frye, Alphonzo G., Boston, Mass. Puzzles	25,345	Oct. 16	69	364
Fuhrman, David M., Wooster, Ohio. Yeast	24,676	May 8	67	808
Fuller, George, St. Paul, Minn. Compounds for cleaning wood and leather	24,153	Jan. 30	66	843
Fullerton, Oscar J., Waterloo, Iowa. Remedy for the cure of consumption	25,640	Dec. 11	69	1501
Fulton Water Works Company, Fulton, N. Y. Spring, mineral, and effervescent waters	25,391	Oct. 23	69	505
Furrer, Marie, New York, N. Y. Ladies' hats and bonnets and trimmings thereon	24,487	Apr. 10	67	267
Fyfe, Alexae'r M., Hartford, Vt. Dressing for giving a finish to textile fabrics	24,248	Feb. 20	66	1304
G. D. Dows & Company, Revere and Boston, Mass. Carbonated tonic medicinal beverages	24,898	June 19	67	1568
G. H. Hammond Company, Hammond, Ind., and South Omaha, Nebr. Certain named edibles	25,479	Apr. 24	67	525
G. J. Moulton & Company, Limited, Macclesfield, England. Dry powdered soap	25,495	Nov. 13	69	941
Gaitskill, Silas H. (See Van Ness and Gaitskill.)				
Galena Oil Works, Franklin, Pa. Lubricating-oil	23,965	Jan. 2	66	168
Galena Oil Works, Franklin, Pa. Lubricating-oil	23,966	Jan. 2	66	168
Galena Oil Works, Franklin, Pa. Lubricating-oil	23,967	Jan. 2	66	168
Galena Oil Works, Franklin, Pa. Lubricating-oil	23,968	Jan. 2	66	168
Gannett, William H., Augusta, Me. Medicinal plasters	24,047	Jan. 16	66	453
Gannett, William H., Augusta, Me. Medicinal plasters	24,148	Jan. 30	66	843
Garber, Reist & Co., Stevens, Pa. Print-butter	25,321	Sept. 11	68	1386
Gardner, William J., Buffalo, N. Y. Remedy for rheumatism	24,771	June 12	67	1446
Garin & Co., Alonso, Havana, Cuba. Lard	25,166	Aug. 21	68	1020
Gary & Christopher, Baltimore, Md. Anestho-anodynes	24,687	May 8	67	809
Gebrüder Brehmer, Leipsic, Germany. Binding and paper-box machines	25,437	Oct. 30	69	638
Geo. F. Blake Manufacturing Company, New York, N. Y. Steam-engine condensers	25,304	Oct. 2	69	120
George Fowler, Son & Company, Limited, Kansas City, Kans. Oil shortening	25,263	Sept. 25	68	1624
German Fowler, Son & Company, Limited, Kansas City, Kans. Lard and compound lard	25,324	Oct. 9	69	239
German American Drug Company, Ohio City, Ohio. Remedy for diseases of women	24,198	Feb. 6	66	1004
Germozone Company, Austin, Tex. Internal remedy for certain named diseases	24,146	Jan. 30	66	843
Gerolsteiner Sprudel W. Castendyck, Gerolstein, Germany. Mineral waters	24,530	Apr. 17	67	396
Geyserite Soap Company, Denver, Colo. Soap in cakes or bars	24,392	Mar. 20	66	1691
Giesecke Boot and Shoe Manufacturing Company, Cole county and St. Louis, Mo. Men's shoes	24,327	Mar. 13	66	1751
Gill, Fred, Grand Rapids, Mich. Carbonated tonic beverage	25,526	Nov. 13	69	944
Gillet & Co., Martin, Baltimore, Md. Tea	25,468	Nov. 6	69	787
Gillett & Hall, Detroit, Mich. Clover-seed	25,287	Oct. 2	69	118
Gilliard, P. Monne & Cartier, Lyons, France. Glass tubes	24,029	Jan. 9	66	313
Gillies & Co., Edwin J., New York, N. Y. Roasted coffee	24,220	Feb. 13	66	1164
Gilman, John F., Boston, Mass. Medicines for venereal diseases	24,727	May 15	67	925
Gilman & Sons, Charles J., Brunswick, Me. Spring-water	25,320	Oct. 9	69	239
Gilmour Bros. Company, Owensborough, Ky. Smoking and chewing tobacco	24,141	Jan. 30	66	842
Gilpin, Langdon & Co., Baltimore, Md. Whisky	24,279	Feb. 27	66	1446
Gilpin, Langdon & Co., Baltimore, Md. Remedies for throat and lung diseases	24,594	Apr. 24	67	526
Giovanni, Bruno, New York, N. Y. Medicinal preparations in the nature of tonic phosphates	24,399	Mar. 20	66	1892
Giron Frères, St. Etienne, France. Velvets	24,443	Apr. 3	67	134
Glens Falls Portland Cement Company, Queensbury, N. Y. Portland cement	25,153	Aug. 21	68	1018
Globe Chemical Company, Cleveland, Ohio. Laundry soap	24,680	May 8	67	809
Globe Register Company, Milwaukee, Wis. Time, sales, and cash registers and serving-machines for stationery	24,698	May 8	67	810
Gold Medal Sarsaparilla Company, Montpelier, Vt. Sarsaparilla liquid compound	25,552	Nov. 27	69	1205

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Goldstein, Julius M., Oneida, N. Y. Cigars	24,413	Mar. 27	66	2048
Goldstein, Julius M., Oneida, N. Y. Cigars	25,216	Sept. 11	68	1386
Goll, Bruno H., Chicago, Ill. Cough sirups	24,758	May 22	67	1063
Goll, Bruno H., Chicago, Ill. Remedy for the blood	24,759	May 22	67	1063
Goodman, Adolph, Pocahontas, Va. Cigars, cigarettes, and smoking and chewing tobacco and snuff	25,527	Nov. 13	69	944
Goodman, Adolph, Pocahontas, Va. Cigars, cigarettes, smoking and chewing tobacco, and snuff	25,553	Nov. 27	69	1206
Goodman & Macatee, New York, N. Y. Fluid medicine to neutralize the effect of microbes on the physical system	24,540	Apr. 17	67	397
Goodman & Macatee, New York, N. Y. Certain named medicinal preparation	25,025	July 17	68	411
Goshen Coal Company, New Philadelphia, Cleveland, and Goshen, Ohio. Bituminous coal	25,215	Sept. 4	68	1272
Goulet & Co., George, Rheims, France. Champagne-wine	25,358	Oct. 16	69	366
Graham Bros. & Co., Chicago, Ill. Toilet soap	25,643	Dec. 11	69	1502
Graham Brothers & Co., Chicago, Ill. Toilet soap	25,429	Oct. 30	69	637
Grand Rapids Brewing Company, Grand Rapids, Mich. Lager-beer	25,423	Oct. 30	69	637
Gray, William C., Ayr, Scotland. Carpets	25,677	Dec. 18	69	1638
Gray, William C., Ayr, Scotland. Carpets	25,678	Dec. 18	69	1638
Gray, William C., Ayr, Scotland. Carpets	25,679	Dec. 18	69	1638
Graydon, Thomas W., Cincinnati, Ohio. Remedies for diseases of the blood, nerves, and respiratory organs	24,990	July 10	68	277
Green, Charles F. (See Yost, Green, and Houck.)				
Green, Shipton, New York, N. Y. Wheat-flour	24,552	Apr. 17	67	398
Green, Shipton, New York, N. Y. Wheat-flour	24,746	May 22	67	1062
Green, Shipton, New York, N. Y. Wheat-flour	24,747	May 22	67	1062
Green, Shipton, New York, N. Y. Wheat-flour	24,748	May 22	67	1062
Green, Shipton, New York, N. Y. Wheat-flour	24,749	May 22	67	1062
Green, Shipton, New York, N. Y. Certain named preserved meats	25,128	Aug. 14	68	910
Green, Shipton, New York, N. Y. Fresh, roast, and boiled beef	25,129	Aug. 14	68	910
Green, Shipton, New York, N. Y. Wheat-flour	25,162	Aug. 21	68	1019
Green, Shipton, New York, N. Y. Beef, mutton, veal, pork, hams, sausage, and cured meats	25,472	Nov. 6	69	788
Green, Shipton, New York, N. Y. Canned meats	25,473	Nov. 6	69	788
Green, Shipton, New York, N. Y. Canned meats	25,474	Nov. 6	69	788
Green, Shipton, New York, N. Y. Canned meats, lard, and substitutes for lard	25,514	Nov. 13	69	942
Greenwald & Co., Philadelphia, Pa. Clothing for men and boys	25,243	Oct. 2	69	117
Greenwoods Company, New Hartford, Conn. Canvas, hose-duck, awning-stripes, sail-duck, sail-twine, seine-twine, sewing-twine, and thread	24,521	Apr. 10	67	270
Grinberg Bros., New York, N. Y. Oil and gas stoves and sheet-metal pipes and elbows	25,143	Aug. 14	68	912
Crit Publishing Company, Williamsport, Pa. Periodicals and other prints	23,149	Aug. 21	68	1013
Grosche & Co., Bruno, New York, N. Y. Paints for metals	25,382	Oct. 16	69	368
Grover & Co., R. B., Brockton, Mass. Leather boots and shoes	24,204	Feb. 13	66	1163
Grover & Co., R. B., Brockton, Mass. Leather boots and shoes	24,205	Feb. 13	66	1163
Guckenheimer & Bros., Asher, Pittsburg, Pa. Whisky	25,159	Aug. 21	68	1019
Guckenheimer & Sons, S., Savannah, Ga. Baking-powder	25,251	Sept. 18	68	1517
Guignès Tanneries Company, Jersey City, N. J., New York, N. Y., and Philadelphia, Pa. Calfskins and goat-skins	24,206	Feb. 13	66	1163
Guild, Joseph H., Rupert, Vt. Remedy for asthma	24,354	Mar. 13	66	1753
Guinean, Thomas, Seattle, Wash. Ointment	24,693	May 8	67	810
Guiraud, Maxime, New Orleans, La. Cigars and cigarettes	24,664	May 8	67	807
Guterman Brothers, St. Paul, Minn. Men's and boys' garments	25,622	Dec. 11	69	1500
Gulden, Charles, New York, N. Y. Mustard	24,298	Mar. 6	66	1589
Gunnerman, Louis H., Thorndale, Pa. Powder to facilitate the execution of music	25,301	Oct. 2	69	119
Guttin, Jean B., New York, N. Y. Wines and liquors	25,711	Dec. 25	69	1769
H. Haller Manufacturing Company, Limited, New Orleans, La. Stoves and ranges	24,404	Mar. 20	66	1892
H. Haller Manufacturing Company, Limited, New Orleans, La. Stoves and ranges	24,405	Mar. 20	66	1892
H. Haller Manufacturing Company, Limited, New Orleans, La. Stoves and ranges	24,406	Mar. 20	66	1892
H. W. Johns Manufacturing Company, New York, N. Y. Roofing, packing, gaskets, insulating and non-conducting materials containing asbestos	25,404	Oct. 23	69	506
Haas & Schrouder, Grand Rapids, Mich. Medicinal effervescent salt	25,016	July 17	68	410
Haas Brothers, New York, N. Y., and San Francisco, Cal. Oysters	24,182	Feb. 6	66	1002
Habich & Co., Boston, Mass. Beer, ale, and porter	25,124	Aug. 14	68	910
Habich & Co., Boston, Mass. Beer, ale, and porter	25,357	Oct. 16	69	366
Hackendahl, Hermann H., Milwaukee, Wis. Blood-purifying tea, liniment, salve, and cough sirup	23,986	Jan. 2	66	169
Haight Fruit Co., Redlands, Cal. Oranges	24,073	July 3	68	141
Hall & Co., G. H., Edina, Mo. Remedy for diseases of hogs	25,078	July 31	68	653
Hall & Co., T. B., Liverpool, England. Ale and stout	25,392	Oct. 23	69	505
Hallock, William P., Harrisburg, Ill. Cosmétique paste for the complexion	25,137	Aug. 14	68	911
Hamblin, Walter E., Manchester, N. H. Cough drops	25,503	Nov. 13	69	941
Hamburger & Sons, A., Los Angeles, Cal. Toilet soaps, perfumes, face-powder, and complexion creams and lotions	24,964	July 3	68	140
Hamlen & Son, James H., Portland, Me. Staves and heading	24,240	Feb. 13	66	1166
Hamlyn Brothers, Buckfastleigh, England. Wool piece goods, including serges, estamenes, and suitings	25,413	Oct. 30	69	636
Hamlyn Brothers, Buckfastleigh, England. Wool piece goods	25,624	Dec. 11	69	1500
Hammel, Rigland & Co., New York, N. Y. Mechanism and materials for watches and clocks	25,402	Oct. 23	69	506
Hammond, Lemuel H., Worcester, Mass. Tablets or pills for coughs, colds, and similar throat and lung affections	24,960	July 3	68	140
Hance Bros. & White, Philadelphia, Pa. Chocolate in powdered form or in tablets	25,126	Aug. 14	68	910
Hance Bros. & White, Philadelphia, Pa. Medicated lozenges and tablets	25,178	Aug. 28	68	1140
Hance Bros. & White, Philadelphia, Pa. Remedy for headache	25,179	Aug. 28	68	1140
Hance Bros. & White, Philadelphia, Pa. Remedy for diseases of the stomach and bowels	25,315	Oct. 9	69	239
Hance, William A., Springfield, Ohio. Preparation for beautifying the complexion	24,589	Apr. 24	67	526
Hanson, Edgar F., Belfast, Me. Medicated soaps and plasters and remedies for diseases of the blood, skin, and nerves	24,631	May 1	67	673
Hanthorn & Co., J. O., Astoria, Oreg. Fish and meat packed in tin cans	24,460	Apr. 3	67	136
Harbison & Walker, Pittsburg, Pa. Fire-brick, tile, and articles made of fire-clay	24,272	Feb. 20	66	1306
Harbison & Walker, Pittsburg, Pa. Fire-brick, tile, and articles made of fire-clay	24,273	Feb. 20	66	1306
Harding, Abram, Baltimore, Md. Electro-magneto appliances	24,027	Jan. 9	66	313
Harle, Haas & Co., Council Bluffs, Iowa. Toothache remedy	25,053	July 24	68	531
Harris, Abram W., Providence, R. I. Lubricating-oil	24,719	May 15	67	924
Harris, Abram W., Providence, R. I. Lubricating-oil	24,904	June 19	67	1569
Harris, Abram W., Providence, R. I. Lubricating-oil	24,966	July 3	68	140
Harris, Abram W., Providence, R. I. Lubricating-oil	25,001	July 10	68	273
Harris-Payson Company, Portland and Alfred, Me. Canned meats, vegetables, fish, and fruits	24,080	Jan. 23	66	647
Harvey Chemical Co., Lafayette, Ind. Polish for metal	24,848	June 12	67	1444
Harvey Chemical Co., Lafayette, Ind. Polish for metal	24,968	July 3	68	141

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Harvey & Co., Port Huron, Mich. Tonic, blood-purifier, and fever-preventive	24,054	Jan. 16	66	453
Harvey, George. (See Ducker, Findly and Harvey.)				
Harvey Manufacturing Co., Brooklyn, N. Y. Headache-powders	24,991	July 10	68	277
Harvey Manufacturing Co., Brooklyn, N. Y. Headache-powders	24,992	July 10	68	277
Harvey Manufacturing Co., Brooklyn, N. Y. Corn medicine or cure	24,993	July 10	68	277
Hastrup & Co., A. Hamburg, Germany. Painters' size	25,433	Oct. 30	69	638
Haswell, William S., Denver, Colo. Corn remedy	24,351	Mar. 13	66	1753
Hathaway, Soule & Harrington, Incorporated, Boston, New Bedford, and Middleborough, Mass. Leather shoes	24,734	May 22	67	1061
Hathaway & Sons, C. L., Boston, Mass. Liquid shoe-dressing	24,847	June 12	67	1444
Haviland, Theodore, Limoges, France, and New York, N. Y. French china	24,773	May 29	67	1186
Hawkins, Edward M., Cuba, Mo. Remedy for chicken-cholera	24,476	Apr. 3	67	138
Hax, George A., Baltimore, Md. Feed for stock	25,183	Aug. 28	68	1140
Hay & Todd Manufacturing Co., Ypsilanti, Mich. Knit underwear	25,282	Oct. 2	69	117
Hayner, William M., Springfield, Ohio. Whisky	24,953	July 3	68	139
Hazard, Hazard & Company, New York, N. Y., and Newport, R. I. Tonic	24,313	Mar. 6	66	1591
Heap, William, Muskegon, Mich. Plumbers' supplies, comprising closets, seats, and tanks	25,534	Nov. 20	69	1065
Hearn, Charles C., Quincy, Mass. Remedy for headache	25,375	Oct. 16	69	367
Hearn & Son, James A., New York, N. Y. Gingham	24,567	Apr. 24	67	524
Hecht, Ferdinand, New York, N. Y. Cleaning preparation for use in sweeping carpets	25,330	Oct. 9	69	240
Heering, Peter N., Copenhagen, Denmark. Cherry brandy	24,234	Feb. 13	66	1165
Heinzerling, John, Baltimore, Md. Aerated beverages	25,581	Dec. 4	69	1357
Heinzerling, John, Baltimore, Md. Aerated beverages	25,650	Dec. 11	69	1503
Heitmann Bros., Cologne, Germany. Family dyes	24,183	Feb. 6	66	1002
Helios Electric Company, Philadelphia, Pa. Arc-light carbons	25,057	July 31	68	654
Hemsey, Alexander, Philadelphia, Pa. Flash-lamps	24,907	June 19	67	1570
Henarie, Daniel V. B., San Francisco, Cal. Whisky	24,021	Jan. 9	66	312
Henn & Gabler Brewing Company, Chicago, Ill. Lager-beer, ale, stout, porter, and analogous malted beverages	25,217	Sept. 11	68	1386
Henry H. Bells Sons Company, Milton and New York, N. Y. Eider-down cloth	24,409	Mar. 27	66	2048
Henry McShane Manufacturing Company, Baltimore, Md. Valves	25,060	July 24	68	532
Herbs, F. & M., Hudson, N. Y. Smoking and chewing tobacco	25,264	Sept. 25	68	1624
Herkner, Henry F., Brooklyn, N. Y. Printers' type and advertising-cuts	25,236	Sept. 18	68	1515
Hernsheim Bros. & Co., S., New Orleans, La. Cigars, cigarettes, cheroots, and tobacco and snuff	24,378	Mar. 20	66	1890
Hernsheim Bros. & Co., S., New Orleans, La. Cigars, cigarettes, cheroots, and tobacco and snuff	24,379	Mar. 20	66	1890
Hernsheim Bros. & Co., S., New Orleans, La. Cigars, all-tobacco cigarettes, cheroots, smoking, chewing, and leaf tobacco and snuff	21,447	Apr. 3	67	135
Hernsheim Bros. & Co., S., New Orleans, La. Cigars, all-tobacco cigarettes, cheroots, smoking, chewing, and leaf tobacco and snuff	24,448	Apr. 3	67	135
Hernsheim Bros. & Co., S., New Orleans, La. Cigars, all-tobacco cigarettes, and smoking, chewing, and leaf tobacco	25,465	Nov. 6	69	787
Hessberg, Magnus, Richmond, Va. Leather boots and shoes	25,012	July 17	68	409
Hewer, William, New York, N. Y. Wheat-flour	25,546	Nov. 20	69	1066
Hewson, Robert, San Francisco, Cal. Whisky	24,534	Apr. 17	67	397
Hibbert, James, Sheffield, England. Pocket-knives, razors, table-cutlery, and scissors	25,348	Oct. 16	69	365
Higin & Co., Thomas, Liverpool, England. Common salt	25,067	July 31	68	652
Hill Syrup Company, Seattle, Wash., and Barre, Vt. Maple sirup	24,576	Apr. 24	67	524
Hillierich & Son, J. F., Louisville, Ky. Base-ball bats	25,510	Nov. 13	69	942
Hillyer, William R., Citra, Fla. Oranges, lemons, tangerines, and grape fruit	24,548	Apr. 17	67	398
Hilson Company, New York, N. Y. Cigars, cheroots, and cigarettes	25,394	Oct. 23	69	506
Hinrichs & Co., New York, N. Y. Lamps	21,166	Feb. 6	66	1001
Hinrichs & Co., New York, N. Y. Lamps	24,362	Mar. 13	66	1754
Hinrichs & Co., New York, N. Y. Lamps	25,239	Sept. 18	68	1515
Hinrichs & Co., New York, N. Y. Dolls	24,415	Mar. 27	66	2048
Hirschler, Moritz, Buda-Pesth, Austria-Hungary. Mineral waters	24,196	Feb. 6	66	1003
Hisen Brothers, Albany, N. Y. Axle-grease	25,195	Sept. 4	68	1271
Hitzeroth & Schatz, Markneukirchen, Germany. String instruments	25,717	Dec. 25	69	1769
Hoffman, Lee & Co., Baltimore, Md. Coffee				
Hoffman, William, Salt Lake City, Utah Ter. Game-boards used in connection with a series of numbers	24,158	Feb. 6	66	1000
Hoffmann & Sons Co., J. G., Wheeling, W. Va. Oak-tanned harness-leather	24,015	Jan. 16	66	452
Hohenstein & Lange, Berlin, Germany. Paper lamp-shades	24,070	Jan. 16	66	455
Hollis, Windle W., Providence, R. I. Taffy	25,017	July 17	68	410
Holzman, Benjamin M., New York, N. Y. Children's clothing other than shirt-waists and under-clothing	25,485	Nov. 13	69	940
Holzman Manufacturing Co., Baltimore, Md., and New York, N. Y. Shirt-waists and ladies' underwear				
Hood & Co., C. I., Lowell, Mass. Pills	25,666	Dec. 18	69	1637
Hood County Milling Company, Granbury, Tex. Wheat-flour	24,865	June 12	67	1445
Hoopes & Townsend, Philadelphia, Pa. Rivets	25,045	July 24	68	530
Horace R. Kelly & Company, Limited, New York, N. Y. Cigars	21,439	Apr. 3	67	134
Hotchkiss, Hiram G., Lyons, N. Y. Essential oils	24,414	Mar. 27	66	2048
Houck, Frank C. (See Yost, Green, and Houck.)	23,964	Jan. 2	66	168
Household Friend Company, Richmond, Va. Chemical coal-saver	24,850	June 12	67	1444
Houston & Henderson, Boston, Mass. Kid gloves	25,620	Dec. 11	69	1500
Howard Sterling Company, Providence, R. I. Table and ornamental silverware	24,713	May 15	67	924
Howarth, Dennis, Chester, Pa. Towels	25,680	Dec. 18	69	1638
Howe & French, Boston, Mass. Isinglass of a gelatinous nature	24,492	Apr. 10	67	268
Howe & French, Boston, Mass. Isinglass of a gelatinous nature	24,493	Apr. 10	67	268
Howe, Hopkins & Bassett, Rochester, N. Y. Heating and power boilers	24,564	Apr. 17	67	400
Howell & Co., Charles H., Philadelphia, Pa. Paints, colors, enamels, driers, varnish, and putty	25,214	Sept. 4	68	1272
Howells, Moffitt & Co., Kane, Pa. Clothes-pins	25,302	Oct. 2	69	119
Hudnut, Richard, New York, N. Y. Preparation to prevent sea-sickness	24,755	May 22	67	1062
Hueffner, Henry A., Virginia, Ill. Flour	25,160	Aug. 21	68	1019
Hull & Co., Poughkeepsie, N. Y. Trousers	24,162	Feb. 6	66	1000
Hunold, Ernest, Providence, R. I. Razors and shears	25,201	Sept. 4	68	1271
Huntoon & Gorham, Providence, R. I. Canned vegetables and fruits and bottled catsups and pickles	25,254	Sept. 18	68	1517
Hurd & Co., George B., New York, N. Y. Writing-paper and envelopes	24,522	Apr. 17	67	396
Hurd & Co., George B., New York, N. Y. Writing-paper and envelopes	24,523	Apr. 17	67	396
Hurd, William J., St. Paul, Minn. Tooth paste or dentifrice	24,119	Jan. 30	66	843
Hyatt School Slate Company, Limited, Bethlehem, Pa. Slates	25,333	Oct. 9	69	240
Hyatt School Slate Company, Limited, Bethlehem, Pa. Slates	25,403	Oct. 23	69	506
I. B. Kleinert Rubber Company, New York, N. Y. Seamless stockinet dress-shields	24,703	May 15	67	923
I. B. Kleinert Rubber Company, New York, N. Y. Rubber-coated skirt-facing	25,310	Oct. 9	69	238
I. B. Kleinert Rubber Company, New York, N. Y. Rubber-coated skirt-facing	25,311	Oct. 9	69	238

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Ichthylol Gesellschaft, Cordes, Hermann & Co., Hamburg, Germany. Chemical and pharmaceutical preparations	24,352	Mar. 13	66	1753
Ichthylol Gesellschaft, Cordes, Hermann & Co., Hamburg, Germany. Chemical and pharmaceutical preparations	24,353	Mar. 13	66	1753
Ievers, Henry, Quebec, Canada. Remedy for toothache	25,452	Nov. 6	69	786
Illinois Watch Case Company, Elgin, Ill. Watchcases	24,436	Apr. 3	67	134
Imperial Granum Company, New Haven, Conn. Prepared foods for children and invalids	23,971	Jan. 2	66	168
Imperial Packing Company, Canajoharie and New York, N. Y., and Chicago, Ill. Pork lard	24,978	July 3	68	142
Indian Rice Milling Company, Kansas City, Mo. Cornmeal	25,252	Sept. 18	64	1517
Indiana Coffee Company, Indianapolis, Ind. Coffee	25,692	Dec. 18	69	1639
Indianapolis Brewing Company, Indianapolis, Ind. Beer	25,586	Dec. 4	69	1358
Indianapolis Drug Co., Indianapolis, Ind. Perfumery	24,845	June 12	67	1444
Iowa Soap Company, Burlington, Iowa. Laundry soap	25,589	Dec. 4	69	1358
Iroquois Brewing Company, Buffalo, N. Y. Lager-beer	24,171	Feb. 6	66	1001
Israel & Brothers, Charles, New York, N. Y. Yellow wax and colored wax goods	25,327	Oct. 9	69	240
Ives & Co., Hobart B., New Haven, Conn. Sash-locks and door-bolts	24,260	Feb. 20	66	1305
Ivins, Eugene, Philadelphia, Pa. Cakes, crackers, and biscuits	24,308	Mar. 6	66	1590
J. B. Lewis Company, Portland, Me., and Boston, Mass. Leather boots and shoes	24,615	May 1	67	672
J. B. Lewis Company, Boston, Mass. Boots and shoes	25,409	Oct. 30	69	636
J. B. Williams Company, Glastonbury, Conn. Shaving-soap	24,294	Mar. 6	66	1509
J. B. Williams Company, Glastonbury, Conn. Shaving-soap	24,295	Mar. 6	66	1539
J. B. Williams Company, Glastonbury, Conn. Toilet soap	24,296	Mar. 6	66	1580
J. B. Williams Company, Glastonbury, Conn. Shaving-soap	24,446	Apr. 3	67	134
J. B. Williams Company, Glastonbury, Conn. Toilet soap	24,542	Apr. 17	67	398
J. B. Williams Company, Glastonbury, Conn. Toilet soap	25,104	Aug. 7	68	767
J. B. Williams Company, Glastonbury, Conn. Toilet soap	25,270	Sept. 25	68	1625
J. B. Williams Company, Glastonbury, Conn. Toilet soap	25,328	Oct. 9	69	240
J. B. Williams Company, Glastonbury, Conn. Shaving-soap	25,353	Oct. 16	69	365
J. H. Mohlman Company, New York, N. Y. Canned fish	25,548	Nov. 20	69	1066
J. H. Zeilin & Company, Incorporated, Philadelphia, Pa. Medicinal preparation for liver diseases	21,258	Feb. 20	66	1305
J. Hungerford Smith Company, Rochester, N. Y. Chewing-gum	24,066	Jan. 16	66	455
J. Hungerford Smith Company, Rochester, N. Y. Fountain sirups, flavoring extracts, and phosphates	24,174	Feb. 6	66	1001
J. M. Clark & Company, Louisville, Ky. Chewing-gum	25,354	Oct. 16	69	365
Jacob Dold Packing Company, Buffalo, N. Y., Kansas City, Mo., Wichita, Kans., Harrisburg, Pa., and Liverpool, England. Smoked hog, beef, and mutton products	24,267	Feb. 20	66	1306
Jacob Dold Packing Company, Buffalo, N. Y., Kansas City, Mo., Wichita, Kans., Harrisburg, Pa., and Liverpool, England. Hams, bacon, shoulders, and all smoked hog, beef, and mutton products	24,299	Mar. 6	66	1559
Jacobs, Joseph M., New York, N. Y. Corsets	25,039	July 24	68	529
Jadwin, Orlando H., New York, N. Y. Insecticides	24,475	Apr. 3	67	137
Jaffray & Co., E. S., New York, N. Y. Silks, silk goods, and ribbons	25,445	Nov. 6	69	785
Jaffray & Co., E. S., New York, N. Y. Velvets, ribbons, and black-velvet ribbons	25,484	Nov. 13	69	940
Jaffray & Co., E. S., New York, N. Y. Silk ribbons	25,702	Dec. 25	69	1768
James Boulton & Company, Limited, Stratford, England. Chemical preservative for provisions	25,181	Aug. 28	68	1140
James Leffel & Company, Springfield, Ohio, and New York, N. Y. Water-wheels	25,303	Oct. 2	69	120
James, Royal & Co., Boston, Mass. Laundry starch	24,743	May 22	67	1061
James, Royal & Co., Boston, Mass. Laundry starch	24,744	May 22	67	1061
Janowitz, Julius, New York, N. Y. Dress and corset stays	25,700	Dec. 25	69	1768
Jarmuth Brothers, Chicago, Ill. Toilet soap	24,009	Jan. 9	66	311
Jaros Hygienic Underwear Company, New York, N. Y. Absorbents for surgical and other purposes	25,419	Oct. 30	69	637
Jarrait, Richard, Detroit, Mich. Washing compound for laundry and other purposes	24,742	May 22	67	1061
Jas. S. Mason Company, Philadelphia, Pa. Shoe-blackening	23,993	Jan. 2	66	170
Jas. S. Mason Company, Philadelphia, Pa. Leather-dressing	24,602	Apr. 24	67	527
Jas. S. Mason Company, Philadelphia, Pa. Dressing for shoes, harness, and fine leathers	24,603	Apr. 24	67	527
Jas. S. Mason Company, Philadelphia, Pa. Dressing for russet leather	25,499	Nov. 13	69	941
Jas. S. Mason Company, Philadelphia, Pa. Leather-dressing	25,583	Dec. 4	69	1358
Jenkins, Maross, New York, N. Y. Petroleum soap	24,226	Feb. 13	66	1165
Jenks, Charles C. (See Foote and Jenks.)				
Jewell, George S., New York, N. Y. Wheat-flour	25,185	Aug. 28	68	1141
Jewell, George S., New York, N. Y. Wheat-flour	25,186	Aug. 28	68	1141
Jewell, George S., New York, N. Y. Wheat-flour	25,187	Aug. 28	68	1141
Jno. S. Snedeker Company, New York, N. Y., New Orleans, La., Houston, Tex., and St. Louis, Mo. Cylindrol	24,967	July 3	68	141
John Bird Company, Rockland, Me. Coffee	24,387	Mar. 20	66	1890
John Bird Company, Rockland, Me. Spices and flavoring extracts	24,546	Apr. 17	67	398
John Bird Company, Rockland, Me. Cream of tartar	24,858	June 12	67	1444
John Gay's Sons, Incorporated, Philadelphia, Pa. Ingrain carpets	24,943	July 3	68	138
Johnson & Co., E. J., New York, N. Y. Slate and slate articles	24,619	May 1	67	672
Johnson & Co., E. M., New York, N. Y. Certain named medicine	24,194	Feb. 6	66	1003
Johnson & Co., E. M., New York, N. Y. Certain named medicine	24,195	Feb. 6	66	1003
Johnson & Co., E. M., New York, N. Y. Certain named medicine	24,197	Feb. 6	66	1003
Johnson & Co., F. S., Milford and Lincoln, Nebr. Wheat-flour	24,306	Mar. 6	66	1590
Johnson & Johnson, New Brunswick, N. J., and New York, N. Y. Medicinal strengthening-plaster	24,830	June 5	67	1328
Johnson & Johnson, New Brunswick, N. J., and New York, N. Y. Antiseptic surgeons' dressing	24,831	June 5	67	1328
Johnson & Johnson, New Brunswick, N. J. and New York, N. Y. Medicinal strengthening-plasters	24,902	June 19	67	1569
Johnson & Johnson, New Brunswick, N. J., and New York, N. Y. Surgeon's antiseptic dressings	25,079	July 31	68	653
Johnson & Johnson, New Brunswick, N. J., and New York, N. Y. Strengthening-plaster	25,705	Dec. 25	69	1768
Johnson, Robert W., New Brunswick, N. J., and New York, N. Y. Remedies for dyspepsia, indigestion, and diphtheria	23,998	Jan. 2	66	170
Johnson, Robert W., New Brunswick, N. J., and New York, N. Y. Remedies for dyspepsia, indigestion, and diphtheria	23,999	Jan. 2	66	170
Johnson, William C., Eau Claire, Wis. Liniment	24,537	Apr. 17	67	397
Johnston, Willis, Washington, D. C. Wheat-flour	24,861	June 12	67	1445
Jonas & Colver, Limited, Sheffield, England. Wrought-iron and cast-steel and articles manufactured therefrom	24,432	Mar. 27	66	2050
Jones & Co., W. H., Boston, Mass. Cocktails and punch	24,739	May 22	67	1061
Jones & Co., W. H., Boston, Mass. Whisky	25,713	Dec. 25	69	1769
Jones, Cynthia S. (See Carter and Jones.)				
Jones, Estate of A. L., Philadelphia, Pa. Steam-traps	24,242	Feb. 13	66	1166
Jones, McDuffee & Stratton, Boston, Mass. Lamp-chimneys	24,425	Mar. 27	66	2049
Joseph Fallert Brewing Company, Limited, Brooklyn, N. Y. Lager-beer	25,587	Dec. 4	69	1358
Joseph R. Peebles' Sons Company, Cincinnati, Ohio. Whisky	24,954	July 3	68	139

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Joseph R. Peebles' Sons Company, Cincinnati, Ohio. Whisky	25,317	Oct. 9	69	239
Joseph R. Peebles' Sons Company, Cincinnati, Ohio. Cured meats	25,425	Oct. 30	69	637
Joseph R. Peebles' Sons Company, Cincinnati, Ohio. Lard	25,427	Oct. 30	69	637
Joseph R. Peebles' Sons Company, Cincinnati, Ohio. Whisky	25,712	Dec. 25	69	1769
Just, John A., Syracuse, N. Y. Glue	25,073	July 31	68	653
Kaley, Frank E., Milford, N. H. Cotton, linen, and other threads not made of silk	25,343	Oct. 16	69	364
Kalish Pharmacy, New York, N. Y. Medicated distilled water	24,499	Apr. 10	67	268
Kalling, Lewis, Baltimore, Md. Carbonated beverages	24,136	Jan. 30	66	842
Kastor & Bros., Adolph, New York, N. Y. Pocket-knives, scissors, and razors	25,192	Aug. 28	68	1142
Kathreiner's Malzkaffee-Fabriken, mit Beschränkter Haftung, Munich and Basel, Germany. Malt-coffee and other coffee substitutes	25,524	Nov. 13	69	943
Kee, Frank T., New York, N. Y. Boots, shoes, and soles therefor	25,621	Dec. 11	69	1500
Keen & Hagerty, Baltimore, Md. Tinware	25,146	Aug. 14	68	912
Keen, Jule, New York, N. Y. Remedy for rheumatism	24,872	June 12	67	1446
Keller & Nutt, Washington, D. C. Remedy for diseases of the blood	25,056	July 24	68	531
Kennard, William R., New York, N. Y. Blood-purifiers and tonics	25,623	Dec. 18	69	1639
Kennard, William R., New York, N. Y. Blood-purifiers and tonics	25,624	Dec. 18	69	1639
Kennard, William R., New York, N. Y. Remedies for pulmonary and similar diseases	25,685	Dec. 18	69	1639
Kennard, William R., New York, N. Y. Pills or pellets	25,666	Dec. 18	69	1639
Kennard, William R., New York, N. Y. Pills or pellets	25,687	Dec. 18	69	1636
Kennard, William R., New York, N. Y. Blood-purifiers and tonics	25,707	Dec. 25	69	1768
Kennard, William R., New York, N. Y. Blood-purifiers and tonics	25,708	Dec. 25	69	1768
Kent & Stanley Company, Providence, R. I. Souvenir articles of silver	24,618	May 1	67	672
Kern & Sons, John B. A., Milwaukee, Wis. Flour, oatmeal, parched wheat, and other cereal foods	24,456	Apr. 3	67	135
Kessler, Edwin F., Milwaukee, Wis. Liniment for internal and external use	24,790	May 29	67	1187
Keystone Pottery Company, Trenton, N. J. Vitreous china	25,417	Oct. 30	69	636
Keystone Woven Wire Fence Company, Tremont, Ill. Woven-wire fencing	24,107	Jan. 23	66	649
Kilmer Manufacturing Company, Newburg, N. Y. Barbed wire, cables, and staples	25,033	July 17	68	412
King, Edmund P. E., and L. G. Rose, Elizabeth, N. J. Bronzing liquid or gold paint	23,994	Jan. 2	66	170
King's Medicine Company, Pittsburg, Pa. Liquid compound of celery-seed and fluid extract of sassaaparilla	24,627	May 1	67	673
Kingsford & Son, T., Oswego, N. Y. Laundry starch	24,997	July 10	68	278
Kingsford & Son, T., Oswego, N. Y. Laundry starch	24,998	July 10	68	278
Kingsford, Thomson, Oswego, N. Y. Corn-starch	24,715	May 15	67	924
Kinney-Gillett Company, Chicago, Ill. Dry hop yeast	24,339	Mar. 13	68	1752
Kissel, Charles F., Indianapolis, Ind. Hoof oils and ointments	24,201	Feb. 6	66	1004
Kleanit Manufacturing Co., Akron, Ohio. Soap containing a fine grit	24,393	Mar. 20	66	1891
Klein, Max, Allegheny, Pa. Whisky	24,662	May 8	67	807
Klein, Sophie, New York, N. Y. Remedies for rheumatism, neuralgia, and lumbago	23,997	Jan. 2	66	170
Klotz, Victor, Paris, France, and New York, N. Y. Certain named perfumed toilet preparations	25,154	Aug. 21	68	1018
Knecht & Son, C. A., Cleveland, Ohio. Whisky	24,056	Jan. 16	66	454
Koch & Co., F. A., New York, N. Y. Knives, razors, and scissors	25,349	Oct. 16	69	365
Kops Brewery, London, England. Ale, aerated and non-alcoholic	24,091	Jan. 23	66	648
Krumhaar, Hermann, Berlin, Germany. Household dyes	25,139	Aug. 14	68	911
Krusins Brothers, New York, N. Y. Cutlery	25,346	Oct. 16	69	365
Kühne, Frederick J., New York, N. Y. Lubricating-oils	24,100	Jan. 23	66	648
Kunhardt & Co., New York, N. Y. Wheat-flour	24,638	May 1	67	673
Kunhardt & Co., New York, N. Y. Wheat-flour	24,860	June 12	67	1445
Kunhardt & Co., New York, N. Y. Wheat-flour	24,890	June 19	67	1563
Kunhardt & Co., New York, N. Y. Wheat-flour	25,518	Nov. 13	69	943
Kuntz, Henry, Slatington, Pa. Slate	25,191	Aug. 28	68	1142
Kuntz, Rudolph, Hastings, Iowa. Preparation for beautifying the skin	25,269	Sept. 25	68	1625
Kurtzman & Son, M., New York, N. Y. Straw hats	24,837	June 12	67	1443
La Grange Mills, Red Wing, Minn. Wheat-flour	24,001	Jan. 9	66	310
La Grange Mills, Red Wing, Minn. Wheat-flour	24,002	Jan. 9	66	310
La Grange Mills, Red Wing, Minn. Wheat-flour	24,003	Jan. 9	66	310
La Grange Mills, Red Wing, Minn. Wheat-flour	24,004	Jan. 9	66	310
La Société des Caves et des Producteurs Réunis, Roquefort, France. Cheese	25,285	Oct. 2	69	117
La Ville Laboratory Company, Springfield, Ohio. Laxative and diuretic preparations	24,596	Apr. 24	67	526
Lacey, William W., Boston, Mass. Tablets for the cure of heart disease	25,293	Oct. 2	69	118
Lachance, Seraphin, Montreal, Canada. Hair wash	24,099	Jan. 23	66	648
Lachance, Seraphin, Montreal, Canada. Toilet lotions	24,125	Feb. 6	66	1003
Lafrique & Pinton, Paris, France. Dyed rabbit-skins	24,529	Apr. 17	67	396
Lägerdorfer Portland Cement Fabrik von Eug. Lion & Co., Hamburg, Germany. Portland cement	25,298	Oct. 2	69	119
Laing, Son & Harrar, Philadelphia, Pa. Blacking, dressing, and rubber and leather cement for boots and shoes	24,477	Apr. 3	67	138
Laing, Son & Harrar, Philadelphia, Pa. Laces and webs for boots and shoes	24,945	July 3	68	138
Lambertville Rubber Company, Lambertville, N. J. Rubber boots, shoes, coats, and other clothing of rubber or rubber compounds	25,487	Nov. 13	69	940
Lambertville Rubber Company, Lambertville, N. J. Rubber boots, shoes, coats, and other clothing of rubber or rubber compounds	25,488	Nov. 13	69	940
Lancaster, John E., Worcester, Mass. Corsets	25,385	Oct. 23	69	505
Lange Tonic Co., New York, N. Y. Tonic remedy for certain named diseases	25,291	Oct. 2	69	113
Langenbach, Albert H., Independence, Iowa. Baking-powder	24,337	Mar. 13	66	1752
Langworthy, Caroline E., Greenwich, N. Y. Preparation for female diseases done up in a ball and wrapped in tin-foil	24,321	Mar. 6	66	1591
Lapostolle, Marnier, Neauphle-le-Château, France. Curaçoa	25,542	Nov. 20	69	1066
Lasker Bros., New York, N. Y. Perfumed ammonia	25,537	Nov. 20	69	1065
"Lathyrus" Landwirthschaftliche Gesellschaft mit Beschränkter Haftung, Munich, Germany. Plants and seeds	24,213	Feb. 13	66	1164
Latz, Peter J., Chicago, Ill. Medicinal salt for use internally	25,396	Oct. 23	69	506
Laurent Cie., Veuve, Bouzy, France. Coca tonic champagne	25,710	Dec. 25	69	1769
Lautz, Fred. C. M., Buffalo, N. Y. Sugar-cane mills	25,748	Dec. 25	69	1772
Lautz, Fred. C. M., Buffalo, N. Y. Sugar-cane mills	25,749	Dec. 25	69	1772
Lautz, Fred. C. M., Buffalo, N. Y. Sugar-cane mills	25,750	Dec. 25	69	1772
Lautz, Fred. C. M., Buffalo, N. Y. Sugar-cane mills	25,751	Dec. 25	69	1772
Lautz, Fred. C. M., Buffalo, N. Y. Sugar-cane mills	25,752	Dec. 25	69	1772
Lazarus, Schwarz & Lipper, Philadelphia, Pa. Braids	24,101	Jan. 23	66	618
Lazell, Dalley & Company, New York, N. Y. Certain named toilet preparations and articles	25,505	Nov. 13	69	942
Lebon & Salomon, Paris, France. Disinfecting product	24,189	Feb. 6	66	1003
Lecaron et Fils, Paris, France. Perfumed toilet preparations	23,977	Jan. 2	66	169
Leeming & Co., Thomas, Montreal, Canada. Soap and certain named toilet preparations	25,551	Nov. 27	69	1206
Leisy, Firm of Isaac, Cleveland, Ohio. Lager-beer	24,449	Apr. 3	67	135
Lenape Springs Co., Philadelphia, Pa. Mineral-spring water	24,312	Mar. 6	66	1591

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Lenz Kn-Ra-Tiv Co., Cleveland, Ohio. Remedy for chilblains	24,873	June 12	67	1446
Leonardi, Srdney B., Tampa, Fla. Remedies for female diseases	25,639	Dec. 11	69	1501
Lesher, Whitman & Co., New York, N. Y. Satteens and twills for dress and lining purposes	24,840	June 12	67	1443
Leslie E. Keeley Company, Dwight and Carbondale, Ill. Gold cure for opium, whisky, and tobacco habits and nervous diseases	24,464	Apr. 3	67	136
Leslie E. Keeley Company, Dwight, Ill. Remedies for nervous diseases	25,682	Dec. 18	69	1638
Leslie & Welsh, Buffalo, N. Y. Cigarettes	25,463	Nov. 6	69	787
Levi, Albert F., Cincinnati, Ohio. Chewing-gum	24,888	June 19	67	1567
Levi, Albert F., Cincinnati, Ohio. Chewing-gum	25,105	Aug. 7	68	767
Lévy, Arthur, Paris, France. Opera-glasses	24,526	Apr. 17	67	396
Lery, John, Philadelphia, Pa. Remedies for rheumatism and similar complaints	24,012	Jan. 9	66	311
Lewis, George T., Philadelphia, Pa. Powdered lye	24,681	May 8	67	809
Lewis, George T., Philadelphia, Pa. Powdered lye	24,682	May 8	67	809
Lichtenstein & Sons, J., New York, N. Y. Millinery, silk and cotton dress goods, hosiery, bleached linens, wool fabrics, and muslins	25,170	Aug. 28	68	1139
Lichtenstein & Sons, J., New York, N. Y. Corsets and gloves	25,281	Oct. 2	69	117
Lichtenstein & Sons, J., New York, N. Y. Corsets and gloves	25,307	Oct. 9	69	238
Linderman, Frank M. (See Binz and Lindermann.)				
Lindsay, Andrew, New York, N. Y. Wheat-flour	25,163	Aug. 21	68	1019
Lion, H. & E., Hamburg, Germany. Portland cement	24,906	June 19	67	1569
Lippincott, Ada, Camden, N. J. Insecticide	25,077	July 31	68	653
Lister & Company, Limited, Bradford, England, and New York, N. Y. Waterproofed silk pile fabric	24,735	May 22	67	1001
Listor & Company, Limited, Bradford, England, and New York, N. Y. Mohair pile fabrics	24,776	May 29	67	1186
Lockett's Sons, George, Brooklyn, N. Y. Teas	24,305	Mar. 6	66	1590
Loeb & Co., Leopold, Philadelphia, Pa. Leaf-tobacco	24,665	May 8	67	808
Loeb & Co., Leopold, Philadelphia, Pa. Leaf-tobacco	24,737	May 22	67	1061
Lohmeyer, Henry L., Pittsburg, Pa. Remedy for diseases of horses	25,289	Oct. 2	69	118
Long, Charles T., Hamilton, Ohio. Baking-powder	24,423	Mar. 27	66	2049
Lord, William H., Dedham, Mass. Prepared codfish	25,373	Oct. 16	69	367
Lord, William H., Dedham, Mass. Prepared codfish	25,547	Nov. 20	69	1066
Lorenz, George E., Toledo, Ohio. Perfume for toilet uses in liquids, powders, pastes, and soaps	24,445	Apr. 3	67	134
Loring, Abbott, Boston, Mass., New York, N. Y., and Chicago, Ill. Hypophosphite-of-calcium compound	24,398	Mar. 20	66	1891
Los Angeles Soap Co., Los Angeles, Cal. Soap	25,225	Sept. 11	68	1387
Losee, Frank B. (See Burger and Losee.)				
Lovering, Walter A., Nashua, N. H. Medicine to purify the blood	24,145	Jan. 30	66	843
Lowe, Walter A., Allegheny, Pa. Compound of lubricating-oils for external use for veterinary purposes	24,864	June 12	67	1445
Lowell Hosiery Company, Lowell, Mass. Hosiery and underwear	24,806	June 5	67	1326
Lubszynski & Co., Berlin, Germany. Polishing-paste	24,247	Feb. 20	66	1304
Ludwig Wessel Actien-Gesellschaft für Porzellan- und Steingut Fabrikation, Poppelsdorf, near Bonn, Germany. Chinaware, artistic ceramic products, and earthenware	25,083	July 31	68	654
Lundgren, John W., Worcester, Mass. Remedy for certain named diseases	24,265	Apr. 3	67	137
Lunkenheimer Company, Cincinnati, Ohio. Straightway or gate valves	24,364	Mar. 13	66	1754
Lunkenheimer Company, Cincinnati, Ohio. Straightway or gate valves	24,365	Mar. 13	66	1754
Lynch, Eugene, Boston, Mass. Whisky	24,779	May 29	67	1186
Lyon, Le Roy M., New York, N. Y. Grapes	25,184	Aug. 28	68	1140
Lyon Manufacturing Co., Brooklyn, N. Y. Balm or cosmetic	24,590	Apr. 24	67	526
Lyon Manufacturing Co., Brooklyn, N. Y. Preparation for the hair	24,591	Apr. 24	67	526
Lyon Manufacturing Co., Brooklyn, N. Y. Liniment	24,592	Apr. 24	67	526
M. Werk Company, Cincinnati, Ohio. Soap powder	25,400	Oct. 23	69	506
Maass, William F., Brooklyn, N. Y. Remedies for diseases of the kidneys, liver, bowels, and stomach	25,057	July 24	68	531
Mahee, Leonia, Paris, Tex., and St. Louis, Mo. Remedies for catarrh, la grippe, and diseases of the throat and lungs	24,469	Apr. 3	67	137
MacKinnon, Angus, Alvinston, Canada. Remedy for diseases of the respiratory organs	24,143	Jan. 30	66	842
Macdonald-Hagelo Manufacturing Company, Vineland, N. J. Floor oil-cloths	25,491	Nov. 13	69	940
Macdonald-Hagelo Manufacturing Company, Vineland, N. J. Floor oil-cloths	25,492	Nov. 13	69	941
Macy & Co., R. H., New York, N. Y. Canned fruit, vegetables, and fish, except oysters	24,254	Feb. 20	66	1305
Macy & Co., R. H., New York, N. Y. Certain named toilet preparations	24,255	Feb. 20	66	1305
Macy & Co., R. H., New York, N. Y. Certain named remedies	24,256	Feb. 20	66	1305
Macy & Co., R. H., New York, N. Y. Ammonia, benzine, and turpentine	24,290	Mar. 6	66	1589
Macy & Co., R. H., New York, N. Y. Tea	24,304	Mar. 6	66	1590
Macy & Co., R. H., New York, N. Y. Kitchen and laundry soaps	24,394	Mar. 20	66	1891
Macy & Co., R. H., New York, N. Y. Wrapping and writing paper	24,617	May 1	67	672
Madame Isbell's Toilet Manufacturing Co., Chicago, Ill. Facial oils, powders, and hair, nerve, and blood tonics	24,965	July 3	68	140
Madison Brewing Company, Madison, Ind. Beer, ale, and porter	25,693	Dec. 18	69	1639
Magenan, Otto, Denver, Colo. Lip-salve	24,927	June 26	67	1717
Magic Medicine Co., Mansfield, Ohio. Nerve medicine and tonic	24,868	June 12	67	1445
Magic Medicine Co., Mansfield, Ohio. Pills	24,961	July 3	68	140
Magnolia Metal Company, New York, N. Y. Antifriction metals, alloys, and journal-bearings	25,168	Aug. 21	68	1020
Magnolia Metal Company, New York, N. Y. Antifriction metals, alloys, and journal-bearings	25,169	Aug. 21	68	1020
Magnolia Metal Company, New York, N. Y. Railway-brasses and journal-boxes and metals therefor	25,747	Dec. 25	69	1772
Magnus, Christian, Cedar Rapids, Iowa. Beverages, including root beer and lager-beer in bottles or other packages	25,319	Oct. 9	69	239
Maguire, James, Philadelphia, Pa. Whisky	25,049	July 24	68	530
Maltbie, Birt L., Buffalo, N. Y. Antiseptic powder	24,925	June 26	67	1717
Manchester Cigar Manufacturing Co., Baltimore, Md. Cigars and cigarettes	24,914	June 26	67	1716
Manchester Cigar Manufacturing Co., Baltimore, Md. Cigars and cigarettes	25,094	Aug. 7	68	766
Maniton Mineral Water Company, Maniton, Colo. Natural mineral water, ginger champagne, and ginger ale	24,222	Feb. 13	66	1164
Manning, Martin, Poughkeepsie, N. Y. Whisky, brandy, gin, rum, and wines	24,780	May 29	67	1186
Manning, Martin, Poughkeepsie, N. Y. Whisky, brandy, gin, rum, and wines	24,781	May 29	67	1187
Manning, Martin, Poughkeepsie, N. Y. Whisky, brandy, gin, rum, and wines	24,782	May 29	67	1187
Mansmann Bros., Pittsburg, Pa. Men's shirts	25,260	Sept. 25	68	1624
Mara Nova Tonic Co., Boston, Mass. Medical compound for purifying the blood, an alternative, and tonic	24,595	Apr. 24	67	526
March Bros., Pierce & Co., Boston, Mass. Men's shirts	24,810	June 5	67	1326
Marseilles Manufacturing Company, Marseilles, Ill. Certain agricultural machines and implements	24,407	Mar. 20	66	1892
Marshall, Edward R., Philadelphia, Pa. Insect and vermin exterminators	25,136	Aug. 14	68	911
Marshall, James, Fall River, Mass. Men's hats and caps	24,808	June 5	67	1326
Marshall, James, Fall River, Mass. Men's hats and caps	24,809	June 5	67	1326
Marshall-Wells Hardware Company, Duluth, Minn. Certain named hardware	25,305	Oct. 2	69	120

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Martin & Co., E., San Francisco, Cal. Whisky	24,022	Jan. 9	66	312
Martin Process Fire-Proofing Paint Company, New York, N. Y. Fireproof water-paint	25,658	Dec. 11	69	1503
Martinez, Joseph, Mobile, Ala. Cigars	24,024	Jan. 9	66	312
Marx & Wire Cigar Company, St. Cloud, Minn. Cigars	25,066	July 31	68	652
Maryland Distilling Company of Baltimore City, Baltimore, Md. Whisky	24,343	Mar. 13	66	1753.
Maryland Pottery Company of Baltimore City, Baltimore, Md. Vitreous china, including plumb- ers' and toilet ware	24,876	June 12	67	1446.
Maryland Pottery Company of Baltimore City, Baltimore, Md. Vitreous china, including plumb- ers' and toilet ware	24,877	June 12	67	1446.
Maryland Pottery Company of Baltimore City, Baltimore, Md. Vitreous china, including plumb- ers' and toilet ware	24,932	June 26	67	1718.
Maryland Pottery Company of Baltimore City, Baltimore, Md. Vitreous china, including plumb- ers' and toilet ware	24,933	June 26	67	1718.
Mascot Publishing Co., New York, N. Y. Printed publications	25,344	Oct. 16	69	364
Mason & Co., Taunton, Mass. Stuffing for food	25,476	Nov. 6	69	788
Mason & Co., George C., Paterson, N. J. Flour and other ground cereals	24,086	Jan. 23	66	647.
Massachusetts Cotton Mills, Lowell, Mass. Woven cotton goods	24,285	Mar. 6	66	1588
Massachusetts Cotton Mills, Lowell, Mass. Woven cotton goods	24,286	Mar. 6	66	1588
Massachusetts Cotton Mills, Lowell, Mass. Woven cotton goods	24,330	Mar. 13	66	1751
Massachusetts Cotton Mills, Lowell, Mass. Woven cotton goods	24,331	Mar. 13	66	1751
Massachusetts Cotton Mills, Lowell, Mass. Woven cotton goods	24,332	Mar. 13	66	1751
Massachusetts Cotton Mills, Lowell, Mass. Blue denims	24,655	May 2	67	807
Massachusetts Cotton Mills, Lowell, Mass. Woven cotton goods	24,775	May 29	67	1186
Massachusetts Cotton Mills, Lowell, Mass. Woven cotton goods	25,676	Dec. 18	69	1638
Mattes & Lutz, Besigheim, Germany, and New York, N. Y. Certain named underwear	25,701	Dec. 25	69	1768
Matthai, Ingram & Co., Baltimore, Md. Tinware	24,282	Feb. 27	66	1446.
Matzoon Co., Y. T., Chicago, Ill. Fermented milk food prepared from sterilized milk and other ingredients	25,255	Sept. 18	68	1517
Mauntel, Rita E., St. Louis, Mo. Salve	24,147	Jan. 30	66	843
Maus, John M., Maudsley, Pa. Wheat-flour	24,063	Jan. 16	66	454
Mauston Milling Company, Mauston, Wis. Milled grain products	24,268	Feb. 20	66	1306
May, Frederick L., Philadelphia, Pa. Boots and shoes other than rubber	24,163	Feb. 6	66	1000
Mayer, Samuel, and W. B. Watts, Macon, Ga. Fertilizer	24,155	Jan. 30	66	844
Mayerhofer, Ferdinand, Brooklyn, N. Y. Balsam	24,227	Feb. 13	66	1165
Maynz & Co., New York, N. Y. Brewers' varnish and shellac	25,555	Nov. 27	69	1206
Mayo, Walter E., Steubenville, Ohio. Lamp-chimneys	24,167	Feb. 6	66	1001
McComas, Percy G., Washington, D. C. Remedy for coughs, colds, and all diseases of the throat and lungs	24,095	Jan. 23	66	648
McDonald, Harry S., South Bend, Ind. Deodorant powder	25,229	Sept. 11	68	1387
McGrane, John J., New York, N. Y. Watch-movements	24,243	Feb. 20	66	1304
McHugh, Joseph P., New York, N. Y. Useful and ornamental house-furnishings	25,737	Dec. 25	69	1771
McIninch, Charles E., Calais, Me. Extract of sarsaparilla, cough cure, pills, salve, and worm-tab- lets	24,593	Apr. 24	67	526
McKean, Albert P., Sunbury, Pa. Building, paving, and insulating composition	24,478	Apr. 3	67	138
McKesson & Robbins, New York, N. Y. Remedies for purifying and treating the blood	24,760	May 22	67	1063
McKesson & Robbins, New York, N. Y. Remedies for diseases of the blood	24,761	May 22	67	1063.
McKowen, Thomas C., and H. McVea, Lindsay, La. Sauce or relish for meats, soups, fish, and oysters	25,730	Dec. 25	69	1770.
McLaughlin, John J., Toronto, Canada. Carbonated beverages	24,311	Mar. 6	66	1590
McLeod, John M., Goderich, Canada. Remedy for certain named diseases	24,467	Apr. 3	67	137
McLin, George H., Huntington, Ind. Beverages, medicines, chewing-gum, dietetic paste or pow- der, and confectionery	25,266	Sept. 25	68	1624.
McLoughlin, John, New York, N. Y. Card game	25,662	Dec. 11	69	1504
McMasters, William P., Munhall, Pa. Miners' lamps	25,478	Nov. 6	69	788
McMurray, Jane M., Frederick, Md. Canned corn	25,164	Aug. 21	68	1019.
McMurray, Jane M., Frederick, Md. Canned corn	25,165	Aug. 21	68	1019
McMurray, Jane M., Frederick, Md. Canned corn	25,189	Aug. 28	68	1141
McMurray, Jane M., Frederick, Md. Canned corn	25,190	Aug. 28	68	1141
McMurray, William, St. Paul and Minneapolis, Minn. Tea, coffee, and spices	25,595	Dec. 4	69	1359
McVea, Harris. (See McKowen and McVea.)				
McVitie & Price, Edinburgh, Scotland. Cakes, biscuits, bread, and confectionery	25,592	Dec. 4	69	1356
Meakin, Henry, Stockton, Cal. Effervescing powder for a summer beverage	25,482	Oct. 30	69	637
Meara, Jacobus A., New York, N. Y. Medical and surgical bandages, appliances, and other ap- purtenances	25,174	Aug. 28	68	1139
Mechanical Rubber Company, New York, N. Y. Articles of hard and soft rubber	24,658	May 8	67	807
Mechanical Rubber Company, New York, N. Y. Articles of hard and soft rubber	24,659	May 8	67	807
Mecky, August, Philadelphia, Pa. Bicycles, tricycles, and velocipedes	25,145	Aug. 14	68	912
Mellinger, Jacob, Baltimore, Md. Preparation for removing hair	24,396	Mar. 20	66	1691
Menomonie Pressed Brick Company, Menomonie, Wis. Building-bricks	24,073	Jan. 16	66	455
Merchant & Company, Incorporated, Philadelphia, Pa. Tin andterne plates	25,003	July 10	68	278
Merck, Firm of E., Darmstadt, Germany. Medicinal agents for use in nervous diseases as a febrile and soporific	24,093	Jan. 23	66	648
Merck, Firm of E., Darmstadt, Germany. Medicinal agents for use in urinary diseases	24,094	Jan. 23	66	648
Merkle-Wiley Brown Company, Paris, Ill. Brooms	25,434	Oct. 30	69	638
Merritt, Theodore, Newburg, N. Y. Medicine for the cure of dyspepsia	24,957	July 3	68	140
Metropolitan Air Goods Company, Boston, Mass. Air-mattresses	24,033	Jan. 9	66	313
Meuschel, Firm of J. W., Sr., Buchbrunn, near Würzburg-on-the-Main, Germany. Frauconian wines	24,501	Apr. 10	67	268
Meyberg, Maude, Chicago, Ill. Preparations for the skin	24,823	June 5	67	1327
Meyberg, Maude, Chicago, Ill. Certain named toilet preparations	25,021	July 17	68	410
Meyberg, Maude, Chicago, Ill. Certain toilet preparations	25,072	July 31	68	653
Meyer, Mathilde, New York, N. Y. Embroidering, floss, wash, and sewing silk	24,985	July 10	68	277
Michaelis & Sons, M., New York, N. Y. Sugar and licorice confections	24,453	Apr. 3	67	135
Michaelis & Sons, M., New York, N. Y. Gelatine	24,889	June 19	67	1567
Michener & Co., J. H., Philadelphia, Pa. Cured hams, beef, and tongues	24,216	Feb. 13	66	1164
Michener & Co., J. H., Philadelphia, Pa. Cured hams, beef, bacon, and tongues	24,300	Mar. 6	66	1590
Miles, John R., Sedalia, Mo. Medicine for troubles arising from a torpid liver	25,233	Sept. 11	68	1388
Miller Brothers, New York, N. Y. Disinfectants	24,011	Jan. 9	66	311
Miller, Charles D. (See Miller, Mark and C. D.)				
Miller, Gertrude E., Pawtucket, R. I. Remedy for throat and chest diseases	24,355	Mar. 13	66	1753
Miller, Hall & Hartwell, Troy, N. Y. Men's collars	25,407	Oct. 30	69	636
Miller, Mark and C. D., Vassar, Mich. Wheat-flour	25,544	Nov. 20	69	1066
Miller, Mark and C. D., Vassar, Mich. Wheat-flour	25,545	Nov. 20	69	1066
Miller, Sons & Co., Jacob, Philadelphia, Pa. Men's, boys', and children's clothing	24,942	July 3	68	138.

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Name, residence, and title.	No.	Date.	Official Gazette.	
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Miltier, Ernest D., Savannah, Ga. Toilet powder	24,067	Jan. 16	66	455
Miltimore, James P., Hastings, Nebr. Veterinary liniment	25,538	Nov. 20	69	1065
Miner, Benjamin F., Montague, Mass. Liquid remedy for skin diseases	25,642	Dec. 11	69	1502
Minkota Milling Company, Duluth, Minn. Wheat-flour	24,582	Apr. 24	67	525
Minkota Milling Company, Duluth, Minn. Cereal food products	25,513	Nov. 13	69	942
Minneapolis Trust Company, Minneapolis, Minn. Wheat-flour	23,975	Jan. 2	66	169
Minnesota Packing and Provision Company, Chicago, Ill., and South St. Paul, Minn. Cured meats and lard	24,893	June 19	67	1568
Minnesota Packing and Provision Company, Chicago, Ill., and South St. Paul, Minn. Cured meats and lard	25,323	Oct. 9	69	239
Moench & Co., Oscar, London, England. Metal lubricators	24,361	Mar. 13	66	1754
Moffitt West Drug Company, St. Louis, Mo. Tonic and remedy for liver diseases	25,379	Oct. 16	69	367
Mooney & Sons, W. W., Columbus, Ind. Harness and saddlery leather	24,708	May 15	67	923
Mooney & Sons, W. W., Columbus, Ind. Harness and saddlery leather	24,946	July 3	68	138
Mooney & Sons, W. W., Columbus, Ind. Harness and saddlery leather	24,947	July 3	68	139
Moore, Henry S., Hudson, Mass. Paint or preparation for the cure of corns, warts, and similar growths	24,833	June 5	67	1328
Moore Peg Co., Lisbon, N. H. Shoe-pegs	25,152	Aug. 21	68	1018
Moos & Co., New York, N. Y. Canned fish, fruit, and vegetables	24,424	Mar. 27	66	2049
Morison, William K., Minneapolis, Minn. Hoop-lock-cutting machines	25,004	July 10	68	278
Morris & Co., Nelson, Chicago, Ill. Lard substitutes	24,253	Feb. 20	66	1305
Morris & Co., Nelson, Chicago, Ill. Hams, bacon, and smoked meats, lard, and oils	24,336	Mar. 13	66	1752
Morris, Samuel, Cardiff, England. Certain named medical compounds	24,017	Jan. 9	66	312
Morrow, William F., Cincinnati, Ohio. Remedy for chills and fever	24,231	Feb. 13	66	1165
Morwitz, Joseph, Philadelphia, Pa. Ginger ale	25,389	Oct. 23	69	505
Mouillon & Cie., Cognac, France. Cognac brandy	24,532	Apr. 17	67	397
Mouillon & Cie., Cognac, France. Cognac brandy	24,533	Apr. 17	67	397
Mount Airy Manufacturing Company, Baltimore, Md. Artificial fertilizer	24,970	July 3	68	144
Mueller & Co., C. F., Jersey City, N. J. Egg-noodles	24,454	Apr. 3	67	135
Mull & Underwood, Dayton, Ohio. Candies, conserves, confections, cough drops, and chewing-gum	25,591	Dec. 4	69	1358
Murray, William B., Minneapolis, Minn. Cigars and cigarettes	24,380	Mar. 20	66	1890
Muschenheim, William C., New York, N. Y. Wines and liquors	24,572	Apr. 24	67	524
N. Z. Graves & Company, Philadelphia, Pa. Varnishes, paints, japans, and painters' supplies	25,332	Oct. 9	69	240
Nager, Charles A., St. Louis, Mo. Cigars	24,381	Mar. 20	66	1890
Napheys & Son, George C., Philadelphia, Pa. Refined and leaf lard	25,471	Nov. 6	69	787
National Candy Mold and Manufacturing Company, Dayton, Ohio. Roll-paper holder	24,168	Feb. 6	66	1001
National Starch Manufacturing Company, New York, N. Y. Laundry starch	24,622	May 1	67	672
National Starch Manufacturing Company, New York, N. Y. Laundry starch	24,623	May 1	67	672
National Starch Manufacturing Company, New York, N. Y. Lump-starch for laundry use	24,678	May 8	67	809
National Starch Manufacturing Company, New York, N. Y. Laundry starch	24,679	May 8	67	809
National Starch Manufacturing Company, Covington, Ky., and New York, N. Y. Starch for food and laundry purposes	24,745	May 22	67	1062
National Starch Manufacturing Company, Covington, Ky., and New York, N. Y. Laundry starch	24,894	June 19	67	1568
Nax, Leonard, Philadelphia, Pa. Tobacco-pipes	24,875	June 12	67	1446
Neagle, James H., Sacramento, Cal. Liquid medicine for malarial diseases	25,158	Aug. 21	68	1019
Nebraska City Starch Company, Nebraska City, Nebr. Starch	24,580	Apr. 24	67	525
Neff, Charles J. (See Neff, George A., C. J., and W. J.)				
Neff, George A., C. J., and W. J., Kansas City, Mo. Cigars	24,949	July 3	68	139
Neff, William J. (See Neff, George A., C. J., and W. J.)				
Nelden-Judson Drug Company, Salt Lake City, Utah Ter. Certain named toilet preparations	25,645	Dec. 11	69	1502
Netter, Charles S., New York, N. Y. Flavoring and perfuming extracts	24,545	Apr. 17	67	398
Netter, Henry H., Philadelphia, Pa. Rye and other whisky	25,015	July 17	68	409
Neuenschwander, J. & J., Monroe, N. Y. Cheese	24,060	Jan. 16	66	454
New Castle Steel and Tin Plate Company, New Castle, Pa. Tin andterne plates	25,147	Aug. 14	68	912
New Jersey Asbestos Company, Jersey City, N. J. Packings, coverings, and other goods made wholly or partly from asbestos	25,092	Aug. 7	68	766
New Jersey Asbestos Company, Jersey City, N. J. Wall-coverings and ceiling and other interior decorations made wholly or partly from asbestos	25,093	Aug. 7	68	766
New Jersey Asbestos Company, Jersey City, N. J. Wall-coverings, steam-packings, and other goods made wholly or in part of asbestos	25,743	Dec. 25	69	1771
New Jersey Asbestos Company, Jersey City, N. J. Wall-coverings, steam-packings, and other goods made wholly or in part of asbestos	25,744	Dec. 25	69	1772
New London Wash Silk Company, New London, Conn. Embroidery, sewing, and floss silk	25,410	Oct. 30	69	636
New London Wash Silk Company, New London, Conn. Silk threads	25,483	Nov. 13	69	940
New London Wash Silk Company, Incorporated, New London, Conn., and New York, N. Y. Silk floss or embroidery-silk	25,533	Nov. 20	69	1065
New Metzger Medicine Company, Decorah, Iowa. Pain-eradicator, ointments, salves, liniments, and pink-eye, distemper, and colic cures	24,901	June 19	68	1569
New Pittsburgh Coal Company, Columbus, Ohio, and Chicago, Ill. Bituminous coal	24,519	Apr. 10	67	270
New York and London Alkaloid and Chemical Company, New York, N. Y. Chemical compound for medicinal purposes	24,317	Mar. 6	66	1591
New York Biscuit Company, New York, N. Y. Cracker-machines	25,479	Nov. 6	69	788
New York Biscuit Company, New York, N. Y. Cakes	25,519	Nov. 13	69	943
New York Biscuit Company, Chicago, Ill., and New York, N. Y. Crackers or bisnits	25,397	Oct. 23	69	506
New York Condensed Milk Company, New York, N. Y. Milk, cream, butter, and cheese	25,028	July 17	68	411
New York Condensed Milk Company, Jersey City, N. J., and New York, N. Y. Milk, condensed and plain, evaporated cream, butter, and cheese	24,819	June 5	67	1327
Newell Bros. Manufacturing Company, Springfield, Mass. Buttons	25,010	July 17	68	409
Newell, Nelson C., Springfield, Mass. Buttons made of wood, ivory, and metal, and cloth-covered buttons	24,886	June 19	67	1567
Newman, Lyda D., New York, N. Y. Preparation for the hair and scalp	25,022	July 17	68	410
Nicholas Burke Company, Limited, New Orleans, La. Baking-powder	24,128	Jan. 30	66	842
Nichols, George D., New York, N. Y. Corsets and waists	24,912	June 26	67	1716
Nichols, George D., New York, N. Y. Corsets and waists	25,406	Oct. 30	69	636
Niemier, Cornelius S. (See Dearing and Niemier.)				
Noble, Edward H., Boston, Mass. Boots, shoes, overshoes, slippers, and rubbers	25,090	Aug. 7	68	766
Noble, Edward H., Boston, Mass. Leather boots and shoes	25,173	Aug. 28	68	1139
Noel Mill Company, Estill Springs, Tenn. Wheat-flour	25,325	Oct. 9	69	240
Nolte & Dolch Fertilizer Company, St. Louis, Mo. Bone-black, bone-meal, and hoof-meal	25,130	Aug. 14	68	910
North British Rubber Company, Limited, Edinburgh, Scotland. Pneumatic tires	23,996	Jan. 2	66	170
North Pacific Flour Mills Company, Walla Walla, Wash. Flour, cornmeal, farina, grits, oatmeal, and crushed cereals	24,975	July 3	68	141
North Shore News Company, Chicago, Ill. Printed periodicals	23,990	Jan. 2	66	170
Northumbrian Chemical Company, Limited, Newcastle-on-Tyne, England. Caustic soda	24,718	May 15	67	924

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Name, residence, and title.	No.	Date.	Official Gazette.	
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Northwestern Consolidated Milling Company, Minneapolis, Minn. Wheat-flour	24,064	Jan. 16	66	454
Northwestern Consolidated Milling Company, Minneapolis, Minn. Wheat-flour	24,065	Jan. 16	66	454
Northwestern Consolidated Milling Company, Minneapolis, Minn. Wheat-flour	24,389	Mar. 20	66	1891
Norton & Co., Chicago, Ill. Wheat-flour	25,286	Oct. 2	69	117
Norton & Co., Chicago, Ill. Wheat-flour	25,366	Oct. 16	69	366
Norton, George W., Somerville, Mass. Bath and laundry soap	25,329	Oct. 9	69	240
Norwich Pharmacal Company, Norwich and New York, N. Y. Antiseptic ointment	25,135	Aug. 14	68	911
Neyes, Norman & Co., St. Joseph, Mo. Leather boots and shoes	25,306	Oct. 9	69	238
Nussey, Arthur, Paterson, N. J. Bug-powder	25,058	July 24	68	531
Nutrolactis Company, New York, N. Y. Medicinal preparation to increase the flow of human milk	25,312	Oct. 9	69	238
O. & W. Thumb Company, Grand Rapids, Mich. Fly-paper	25,660	Dec. 11	69	1503
O'Hern, Joseph F., Waltham, Mass. Certain named remedies	24,726	May 15	67	925
O'Neil, James, Jenkintown, Pa. Liquid wood-filler	25,233	Sept. 4	68	1272
Oak Chemical Company, Philadelphia, Pa. Remedy for headache	24,257	Feb. 20	66	1305
Oak Chemical Company, Philadelphia, Pa. Remedies for headache	25,132	Aug. 14	68	910
Olol Company, New York, N. Y. Disinfecting and deodorizing preparations	25,582	Dec. 4	69	1358
Old Bangor Slate Company, Bethlehem, Pa. Roofing-slates	25,754	Dec. 25	69	1772
Olds, Lyman C., Baltimore, Md. Hair-grower	24,754	May 22	67	1062
Oppelt, Estate of Janette, Baltimore, Md. Cigars	24,344	Mar. 13	66	1753
Oppenheimer, Straus & Co., Cincinnati, Ohio. Certain named furnishing goods for men	24,207	Feb. 13	66	1163
Orange County Milk Association, New York, N. Y. Milk	24,172	Feb. 6	66	1001
Orange County Milk Association, New York, N. Y. Condensed or preserved milk	24,219	Feb. 13	66	1164
Orange County Milk Association, New York, N. Y. Condensed milk	25,322	Oct. 9	69	239
Orange Judd Company, New York, N. Y. Newspapers and periodicals	25,439	Nov. 6	69	785
Oshkosh Match Works, Oshkosh, Wis. Matches	23,995	Jan. 2	66	170
Ossawam Mills Company, Norwich, Conn. Sash and curtain cords	25,411	Oct. 30	69	636
Ostermoor & Co., New York, N. Y. Cotton-batting and prepared cotton for mattresses and other purposes	25,091	Aug. 7	68	766
Our Home Granula Co., Dansville, N. Y. Cooked granulated wheat	24,131	Jan. 30	66	842
Outland, Nora H., Zanesfield, Ohio. Skin preparation	25,247	Sept. 18	68	1516
Overman Wheel Company, Chicopee Falls, Mass. Cycles, tennis rackets and balls, and base balls and bats	25,167	Aug. 21	68	1020
Overman Wheel Company, Chicopee Falls, Mass. Cycles, tennis-rackets, balls, and bats	25,480	Nov. 6	69	788
Owen Electric Belt and Appliance Company, Chicago, Ill. Electric belt and wearing appliances	24,778	May 29	67	1186
Oxnard, Frederic, Buffalo, N. Y. Internal remedies for purifying the blood	25,294	Oct. 2	69	118
Pacific Mills, Lawrence, Mass. Grape	24,329	Mar. 13	66	1751
Palmer, Firm of Solon, New York, N. Y. Perfumery, sachet-powders, and soap	24,932	July 3	68	140
Palmer, John W., New York, N. Y. Builders' cement	24,605	Apr. 24	67	527
Palmer, John W., New York, N. Y. Builders' cement	24,606	Apr. 24	67	527
Palmer, John W., New York, N. Y. Builders' cement	24,607	Apr. 24	67	527
Pangle, George W., Council Bluffs, Iowa. Remedies for diseases of the throat and lungs, liver, blood, kidneys, and nerves	24,356	Mar. 13	66	1753
Paris Medicine Company, Paris, Tenn. Remedies for malarial diseases	24,016	Jan. 9	66	311
Parker & Co., A. H., Waltham, Mass. Remedy for nervous diseases	24,785	May 29	67	1187
Parker & Sanders, Birmingham, England. Lamps	24,363	Mar. 13	66	1754
Partridge, Herbert L., La Crosse, Wis. Certain named medical compounds	24,497	Apr. 10	67	268
Pasquier & Stankard, Indianapolis, Ind. Baking-powder	24,855	June 12	67	1444
Patterson, Reuben S., Port Huron, Mich. Book and letter paper	24,157	Feb. 6	66	1000
Peabody & Co., Henry W., New York, N. Y. Axes, hatchets, chisels, plane-blades, bits, gonges, and other tools	24,031	Jan. 9	66	313
Pearson, Enos S., Fidelity, Ohio. Young apple-trees	24,939	July 3	68	138
Peck & Co., F. W., Columbia, Mo. Liniments, ointments, and remedies for dyspepsia, chills, and lung troubles	24,472	Apr. 3	67	137
Peelle, James W., New York, N. Y. Packing for machinery	25,061	July 24	68	532
Pelzer Manufacturing Company, Pelzer, S. C. Cotton piece goods	25,704	Dec. 25	69	1768
Pennsylvania Bottling and Supply Company of Philadelphia, Philadelphia, Pa. Ginger ale	25,648	Dec. 11	69	1502
Perret, Ulysse, Renan, Switzerland. Mainsprings for clocks and watches	24,071	Jan. 16	66	455
Perrin Frères & Cie., New York, N. Y. Gloves	25,199	Sept. 4	68	1271
Perrin Frères & Cie., New York, N. Y. Certain named personal furnishings and fabrics	25,446	Nov. 6	69	785
Perrin & Stephenson, San José, Cal. Remedies of a laxative, cathartic, and purgative character	25,157	Aug. 21	68	1019
Perry, Chauncey, Rochester, N. Y. Germicides, deodorizers, and disinfectants	25,454	Nov. 6	69	786
Peter Hand Brewery Company, Chicago, Ill. Lager-beer	24,057	Jan. 16	66	454
Peters Cartridge Company, Cincinnati, Ohio. Ammunition	24,609	Apr. 24	67	528
Peters Cartridge Company, Cincinnati, Ohio. Ammunition, except shotgun-cartridges and gun-powder	25,193	Aug. 28	68	1142
Petrie & Co., Peter, near Huntsville, Tex. Medicine for certain named diseases	24,651	May 1	67	674
Petterson, Pere E., Chicago, Ill. Temperance drink in imitation of champagne	24,955	July 3	68	139
Pettijohn, Samuel R., Minneapolis, Minn. Rolled wheat	24,081	Jan. 23	66	647
Pfäelzer Brothers & Co., Philadelphia, Pa. Cuff, collar, and other ornamental buttons and studs	25,240	Sept. 18	68	1515
Pfaffmann, George A., Cleveland, Ohio. Washing compound	24,068	Jan. 16	66	455
Phena Tre Cinc Chemical Co., Philadelphia, Pa. Anodyne and antipyretics	23,985	Jan. 3	66	169
Pheno-Bromate Chemical Co., Lebanon Springs, N. Y. Medicine for the cure of neuralgia, grip, and fever	24,468	Apr. 3	67	137
Philadelphia Brewing Company, Philadelphia, Pa. Beer	25,393	Oct. 23	69	506
Phillips, Enoch D., Bessemer, Ala. Preparation for the cure of gonorrhea	24,322	Mar. 6	66	1591
Phillips, William H., Newark, N. J. Lime for disinfecting and whitewashing purposes	24,419	Mar. 27	66	2049
Phoenix Candy Manufacturing Co., New York, N. Y. Unfrozen confections, comprising caramels, creams, chocolates, and similar candies	25,125	Aug. 14	68	910
Phoenix Extract Co., New York, N. Y. Coloring fluids for pastry and confectionery	23,973	Jan. 2	66	169
Phoenix Litho Plate Company, New York, N. Y. Zinc plates for lithographing purposes	24,934	June 26	67	1718
Pickering & Sons, Joseph, Sheffield, England. Cleaning and polishing preparations	25,431	Oct. 30	69	638
Pindell Bros. & Co., Hannibal, Mo. Wheat-flour	24,252	Feb. 20	66	1304
Pinder, James, Sheffield, England. Cutlery, tools, metal goods, and hollow ware	25,741	Dec. 25	69	1771
Pitt, John A. P., New York, N. Y. Milk punch	25,265	Sept. 25	68	1624
Planten, John R., Brooklyn, N. Y. Toilet powder	24,346	Mar. 13	66	1753
Plantz & Co., W. M., Chicago, Ill. Compound for removing scale from boilers	24,849	June 12	67	1444
Plows Candy Company, St. Louis, Mo. Confections, candy, cake, and fruit	25,068	July 31	68	653
Plymouth Clothing House, Minneapolis and St. Paul, Minn. Men's wearing-apparel	25,198	Sept. 4	68	1271
Pohl & Co., E., Baltimore, Md. Corset-waists	24,440	Apr. 3	67	134
Polesny, Josef V., Baltimore, Md. Fig essence for flavoring coffee	25,106	Aug. 7	68	767
Pomeroy Brothers, Newark, N. J. Ink, mucilage, and sealing-wax	24,069	Jan. 16	66	455
Pommer, Ernst, Milwaukee, Wis. Wines and champagnes	24,310	Mar. 6	66	1590
Pommery Fils & Co., Veuve, Rheims, France. Champagne-wine	24,573	Apr. 24	67	524
Pommery Fils & Co., Veuve, Rheims, France. Champagne-wine	24,574	Apr. 24	67	524

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Pomroy, George W., Jr., Hartford, Conn. Liniment for horses and other animals.....	25,290	Oct. 2	69	118
Potter, John S., Boston, Mass. Electric-fan outfits, cleats, cut-outs, and insulators.....	25,007	July 10	68	278
Prall, Delbert E., Saginaw, East Side, Mich. Toilet preparation.....	24,720	May 15	67	925
Pratt, Abijah R., Hastings, Mich. Remedies for catarrh.....	24,230	Feb. 13	66	1165
Pre Digested Food Company, New York, N. Y. Medicinal liquid foods.....	24,994	July 10	68	277
Prentice & Evenson, Janesville, Wis. Certain designated medicines, toilet and manicure articles.....	25,460	Nov. 6	69	786
Prentiss Chemical and Manufacturing Company, San Francisco, Cal. Remedies for constipation, biliousness, rheumatism, and neuralgia.....	24,400	Mar. 20	66	1892
Prescott & Co., J. L., North Berwick, Me. Polish for stoves and similar articles.....	25,331	Oct. 9	69	240
Prescott & Co., J. L., North Berwick, Me., and New York, N. Y. Polish for stoves and like articles.....	25,506	Nov. 13	69	942
Preston, Andrew P., Portsmouth, N. H. Smelling-salts.....	25,580	Dec. 4	69	1357
Preston & Co., William, Omaha, Nebr. Rolled wheat products, dry hop yeast, and wheat-flour.....	25,031	July 17	68	411
Preston, Everett B., Chicago, Ill. Bicycles.....	25,570	Dec. 4	69	1357
Preston, Everett B., Chicago, Ill. Ladies' bicycles.....	25,571	Dec. 4	69	1357
Price Flavoring Extract Company, Chicago, Ill., and New York, N. Y. Flavoring extracts.....	25,205	Sept. 4	68	1272
Price Flavoring Extract Company, Chicago, Ill., and New York, N. Y. Flavoring extracts.....	25,206	Sept. 4	68	1272
Price Flavoring Extract Company, Chicago, Ill., and New York, N. Y. Dry hop-yeast.....	25,207	Sept. 4	68	1272
Price, Frederick A., Syracuse, N. Y. Line of medical preparations consisting of liquids, pills, tablets, plasters, lotions, salves, and dentifrice.....	24,922	June 26	67	1717
Priesmeyer, William H., St. Louis, Mo. Lye.....	24,971	July 3	68	141
Priesmeyer, William H., St. Louis, Mo. Salt.....	25,107	Aug. 7	68	767
Priestley & Co., B., Bradford, England. Piece goods containing wool, worsted, or hair.....	23,962	Jan. 2	66	167
Priestley & Co., B., Bradford, England. Piece goods in which silk predominates.....	23,963	Jan. 2	66	168
Priestley & Co., B., Bradford, England. Piece goods in which silk predominates.....	23,991	Jan. 2	66	170
Probst & Schomaker, Brooklyn, N. Y. Loaves of bread.....	24,509	Apr. 10	67	269
Proctor, John C., Rochester, N. Y. Remedy for corns.....	24,788	May 29	67	1187
Puhlman, Rudolph, Jersey City, N. J. Compounds to remove and prevent scale on boilers.....	24,825	June 5	67	1327
Pumphrey Co., Newark, N. J. Smoked chipped beef.....	25,044	July 24	68	530
Pyram'd Drug Co., Albion, Mich. Pile cure.....	24,597	Apr. 24	67	526
Queen City Printing Ink Company, Cincinnati, Ohio. Printing-ink.....	24,402	Mar. 20	66	1892
Queen & Company, Incorporated, Philadelphia, Pa. Electrical instruments for measuring current, potential, and resistance.....	24,566	Apr. 17	67	400
Queenan, Matthew, Ansonia, Conn. Liniments.....	24,926	June 26	67	1717
R. J. Reynolds Tobacco Company, Winston, N. C. Chewing and smoking tobacco.....	24,571	Apr. 24	67	524
Radlauer, Siegmund, Berlin, Germany. Pharmaceutical preparations.....	24,866	June 12	67	1454
Ragland, Dora, Atlanta, Ga. Chewing-gum.....	25,223	Sept. 11	68	1386
Rankin, George W., Pekin, Ill. Medicine for the cure of eczema.....	24,235	Feb. 13	66	1166
Rapelje, Katie M., New York, N. Y. Tallow soap.....	24,639	May 1	67	673
Read Holliday & Sons, Limited, New York, N. Y. Disinfectants.....	24,633	May 1	67	673
Read Holliday & Sons, Limited, New York, N. Y. Disinfectants.....	24,650	May 1	67	674
Red Seal Remedy Company, Rockland, Me. Certain named medicines.....	25,502	Nov. 13	69	941
Red Star Drop Co., Indianapolis, Ind. Lozenges known as cough drops.....	25,018	July 17	68	410
Redgrave, Montague, Jersey City, N. J. Musical instruments.....	24,611	Apr. 24	67	528
Reeves, Parvin & Co., Philadelphia, Pa. Canned and preserved fruits and vegetables.....	24,918	June 26	67	1716
Reeves, Parvin & Co., Philadelphia, Pa. Canned and preserved fruits and vegetables.....	25,218	Sept. 11	68	1386
Regal Shoe Co., Boston, Mass. Men's boots and shoes.....	24,706	May 15	67	923
Regal Shoe Co., Boston, Mass. Boots and shoes.....	25,703	Dec. 25	69	1768
Reid, Walter E., Washington, D. C. Compound of roots and herbs used as a tea.....	25,377	Oct. 16	69	367
Reinert, Adolph, St. Louis, Mo. Whisky.....	25,584	Dec. 4	69	1358
Reitzel & Co., J., Newark, N. J. Tomato catsup.....	24,577	Apr. 24	67	525
Reliable Incubator and Brooder Company, Quincy, Ill. Incubators and brooders.....	24,983	July 3	68	142
Remington, Johnson Company, Salt Lake City, Utah Ter. Tea.....	24,221	Feb. 13	66	1164
Restorff & Bettmann, New York, N. Y. Leather-dressing.....	25,398	Oct. 23	69	506
Revel Père et Fils, Lyons, France. Silk piece goods.....	24,654	May 8	67	807
Revere Rubber Company, Boston, Mass. Mechanical rubber goods.....	25,489	Nov. 13	69	940
Revere Rubber Company, Boston, Mass. Mechanical rubber goods.....	25,490	Nov. 13	69	940
Reyna, Rafael, Havana, Cuba. Cigars.....	24,382	Mar. 20	66	1890
Reynolds Manufacturing Company, Davisville R. I. Cassimeres.....	24,885	June 19	67	1567
Reynolds Manufacturing Co., Davisville, R. I. Doeskin jeans.....	24,911	June 26	67	1716
Rheinstrom, Bettman, Johnson & Co., Cincinnati, Ohio. Whiskies, cordials, wines, and liqueurs.....	24,738	May 22	67	1061
Rhind & Co., D. A., Leith, Scotland. Whisky.....	25,585	Dec. 4	69	1358
Rhuland, Anthony A., Stoneham, Mass. Medicine for certain named diseases.....	24,232	Feb. 13	66	1165
Rice, & Co., Edward E., Boston, Mass. Cleansing compound for scouring raw wool.....	24,291	Mar. 6	66	1589
Rice & Hutchins, Incorporated, Boston, Mass. Boots and shoes and leather for uppers.....	25,326	Oct. 23	69	505
Richards, John T., Gardiner, Me. Axles and axle-boxes for vehicles.....	25,257	Sept. 18	68	1517
Richardson Manufacturing Co., Bath, N. Y. Cake-tins.....	25,062	July 24	68	532
Richardson Manufacturing Company, Worcester, Mass. Agricultural machines and their parts.....	24,697	May 8	67	810
Richmond, Samuel A., Tuscola, Ill. Remedy for diseases of the blood and nervous system.....	24,053	Jan. 16	66	453
Ricker, Ernest H. and K. E., Elgin, Ill. Trees, seeds, bulbs, and plants.....	24,266	Feb. 20	66	1306
Ricker, Katie E. (See Ricker, Ernest H. and K. E.).....				
Rieser, Alvin F., Philadelphia, Pa. Milk, cream, butter, and cheese.....	24,674	May 8	67	808
Riley, Michael, London, Ohio. Foot-guards for railway-frogs.....	24,563	Apr. 17	67	400
Ripley Howland Manufacturing Company, Boston, Mass. White brilliants.....	25,619	Dec. 11	69	1500
Rishell, John D., Philadelphia, Pa. Toilet liquids, pomades, powders, caked powders, and soaps.....	24,391	Mar. 20	66	1691
Ritmeyer, William, Milwaukee, Wis. Certain internal and external remedies.....	25,420	Oct. 30	69	437
Robbins & Baltzell, Madison, Wis. Wheat-flour.....	25,046	July 24	68	530
Robert-Milton Manufacturing Co., New York, N. Y. Remedies for certain named diseases.....	24,786	May 29	67	1167
Roberts & Co., A. F., New York, N. Y. Wheat-flour.....	24,583	Apr. 24	67	525
Roberts & Co., A. F., New York, N. Y. Wheat-flour.....	24,996	July 10	68	278
Roberts & Co., George J., Dayton, Ohio. Water motors or pumps.....	24,565	Apr. 17	67	400
Robertson & Son, John, Dundee, Scotland. Scotch whisky.....	24,916	June 26	67	1716
Robinson & Ebert, New York, N. Y. Brooms and brushes.....	24,283	Mar. 6	66	1588
Robinson, Henry, New York, N. Y. Pills.....	24,323	Mar. 6	66	1592
Robinson, James A., New York, N. Y. Sheetings.....	25,412	Oct. 30	69	636
Robinson, James A., New York, N. Y. Sheetings.....	25,444	Nov. 6	69	785
Rochester Brewing Company, Rochester, N. Y. Lager-beer.....	25,203	Sept. 4	68	1271
Rockwood & McCallum, Greenwood, Ark. Blood-purifiers.....	25,268	Sept. 25	68	1625
Robe & Brother, New York, N. Y. Canned and cured meats and lard and tallow.....	25,549	Nov. 20	69	1066
Rolke, Gustav, Columbus, Ohio. Roach-powder.....	25,300	Oct. 2	69	119
Root-Tea-Na Herb Co., Akron, Ohio. Medicine for the cure of catarrh.....	24,630	May 1	67	673
Root-Tea-Na Herb Co., Akron, Ohio. Medicine for the cure of the tobacco habit.....	24,725	May 15	67	925
Rose, Linden G. (See King and Rose.).....				
Rosenfeld & Co., E., Baltimore, Md. Night-robes.....	24,202	Feb. 13	66	1163

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Rosenheim-Levis-Zukoski Mercantile Company, St. Louis, Mo. Certain named ribbons.....	24,652	May 1	67	674
Rosenstein, Leo, New York, N. Y. Dried fruits.....	24,175	Feb. 6	66	1001
Rosenstein, Leo, New York, N. Y. Dried and preserved fruits.....	24,578	Apr. 24	65	525
Rosenstein, Leo, New York, N. Y. Matches.....	24,683	May 8	67	809
Rosenstein, Leo, New York, N. Y. Matches.....	24,920	June 26	67	1717
Rosenstein, Leo, New York, N. Y. Coffee, chicory, and coffee substitutes.....	25,109	Aug. 7	68	768
Rosenstein, Leo, New York, N. Y. Dried fruits.....	25,525	Nov. 13	69	944
Rosenthal Brothers, New Orleans, La. Pantaloon.....	24,203	Feb. 13	66	1163
Ross & Co., Charles H., Baltimore, Md. Whisky.....	24,137	Jan. 30	66	842
Ross & Co., Charles H., Baltimore, Md. Whisky.....	24,138	Jan. 30	66	842
Rost, Carl L., Crawfordsville, Ind. Gold buttons, pins, and charms.....	25,279	Oct. 2	69	117
Rost, Helena R., Crawfordsville, Ind. Gold buttons, pins, and charms.....	24,924	July 10	68	277
Roy & Boire Drug Co., Manchester, N. H. Cough sirup.....	25,019	July 17	68	410
Royal Manufacturing Co., Lancaster, Pa. Disinfecting-powder.....	25,211	Sept. 4	68	1272
Royal Manufacturing Co., Lancaster, Pa. Polishing-powder for metal and glass.....	25,228	Sept. 11	68	1387
Royal Remedy and Extract Company, Dayton, Ohio. Bonbons and chewing-gum.....	24,844	June 12	67	1443
Rumsey Bros., Lynn, Mass. Ladies' boots, shoes, and foot-wear manufactured of leather and cloth.....	24,245	Feb. 20	66	1304
Russ-Suchard et Cie., Nouchâtel, Switzerland. Chocolates and cocoas.....	24,853	June 12	67	1444
Ryan, John C. Jr., St. Joseph, Mo. Leather-dressing.....	25,399	Oct. 23	69	506
Rycroft, Charles E., New York, N. Y. Certain named dress goods.....	24,037	Jan. 16	66	452
Rylands Brothers, Limited, Warrington, England. Certain named iron, steel, and lead manufac- tures.....	25,436	Oct. 30	69	638
S. Liebmann's Sons Brewing Company, Brooklyn, N. Y. Malt beer.....	25,716	Dec. 25	69	1769
S. S. White Dental Manufacturing Company, Philadelphia, Pa., New York and Brooklyn, N. Y., Boston, Mass., Chicago, Ill., and Atlanta, Ga. Dental gold-foil.....	24,940	July 3	68	138
S. S. White Dental Manufacturing Company, Philadelphia, Pa., New York and Brooklyn, N. Y., Boston, Mass., Chicago, Ill., and Atlanta, Ga. Dental gum or rubber.....	24,941	July 3	68	138
Salomon & Co., Felix, New York, N. Y. Wool fat.....	24,514	Apr. 10	67	370
Samson Cordage Works, Boston, Mass. Braided cotton window or sash cord.....	24,411	Mar. 27	66	2043
Samuels Bros., Youngstown, Ohio. Jewelry having artificial-diamond settings.....	24,159	Feb. 6	66	1000
Samuels & Co., O. M. T., Detroit, Mich. Liniment for internal and external use.....	25,249	Sept. 18	68	1516
Sanchez, Miguel J., New York, N. Y. Iron and steel fireproof safes.....	24,881	June 12	67	1446
Sanderson, Lucien, New Haven, Conn. Fertilizers.....	25,299	Oct. 2	69	119
Sanitol Manufacturing Co., Denver, Colo. Disinfectants, insecticides, and rat and roach powder.....	25,274	Sept. 25	68	1625
Saranac Glove Corpany, Littleton, N. H. Gloves and mittens.....	25,408	Oct. 30	69	636
Sartorius & Co., A., New York, N. Y. Prepared colors.....	25,498	Nov. 13	69	941
Sauders, Martin V., Detroit, Mich. Natural mineral water.....	25,296	Oct. 2	69	119
Sawhill, Alexander F., Allegheny, Pa. Line of proprietary medicines.....	23,984	Jan. 2	66	169
Scallin, Stephen H., Mitchell, S. D. Medicine for the cure of headache and neuralgia.....	25,101	Aug. 7	68	767
Schieren & Co., Chas. A., New York, N. Y. Leather belting and lace-leather.....	24,707	May 15	67	923
Schloss Bros. & Co., Baltimore, Md. Wearing-apparel for men and boys.....	25,063	July 31	68	652
Schloss Bros. & Co., Baltimore, Md. Wearing-apparel for men and boys.....	25,064	July 31	68	652
Schloss Bros. & Co., Baltimore, Md. Wearing-apparel for men and boys.....	25,065	July 31	68	652
Schloss Bros. & Co., Baltimore, Md. Tailoring wearing-apparel for men and boys.....	25,447	Nov. 6	69	785
Schloss Bros. & Co., Baltimore, Md. Tailoring wearing-apparel for men and boys.....	25,565	Dec. 4	69	1356
Schmachtenberg Bros., New York, N. Y. Pocket-knives.....	25,037	July 24	68	529
Schmalz & Son, John, Hoboken, N. J. Bread.....	24,307	Mar. 6	66	1590
Schmidt, Adolf, New York, N. Y. Pills.....	24,190	Feb. 6	66	1003
Schmit, John P. C., Green Bay, Wis. Natural mineral water.....	24,450	Apr. 3	67	135
Schoble & Co., Frank, Philadelphia, Pa. Soft and stiff fur-felt hats for men and boys.....	25,566	Dec. 4	69	1356
Schopper, Heinrich, Chemnitz, Germany. Cashmere hosiery.....	25,338	Oct. 16	69	364
Schultz, Ingeborg, Philadelphia, Pa. Remedies for diseases of the stomach.....	24,828	June 5	67	1328
Schuelk, Peter, Stevens Point, Wis. Cure for the heaves in horses.....	24,834	June 5	67	1328
Schulte, Fritz C., San Antonio, Tex. Sirup and molasses.....	25,321	Oct. 9	69	239
Schweichart, George, Jr., Wauwatosa, Wis. Carbonated beverages, ginger ale, and weiss beer.....	25,462	Nov. 6	69	787
Schweinburg, Emil, New York, N. Y. Corsets and corset-clasps.....	25,482	Nov. 13	69	940
Schwerdfeger, Charles, Philadelphia, Pa. Lager-beer.....	25,048	July 24	68	530
Schwerin Bros., Philadelphia, Pa. Men's trousers.....	25,665	Dec. 18	69	1637
Schwob, Adolphe, New York, N. Y. Watches.....	25,115	Aug. 14	68	909
Scientific Suspender Company, Limited, Battle Creek, Mich. Suspenders.....	24,807	June 5	67	1326
Scott Brothers, New York, N. Y. Sheets, pillow-slips, and house linen.....	24,377	Mar. 20	66	1889
Scudder-Gale Grocer Company, St. Louis, Mo. Baking-powder.....	24,556	June 12	67	1444
Scureman Drug Co., Nanticoke, Pa. Remedy for gonorrhea.....	24,771	Feb. 20	66	1306
Seabury & Johnson, New York, N. Y. Medicinal and surgical plasters, appliances, and dressings.....	25,457	Nov. 6	69	786
Searle & Son, Rockford, Ill. Axle-grease and machine-oils.....	24,010	Jan. 9	66	311
Seelye, Alfred B., Abilene, Kans. Certain named medicines and flavoring extracts.....	25,108	Aug. 7	68	768
Seixax, Alfred M., New York, N. Y. Wheat-flour.....	24,793	May 29	67	1188
Seixax, Alfred M., New York, N. Y. Wheat-flour.....	24,794	May 29	67	1188
Sellman, Rice & Co., Baltimore, Md. Package-blended tea.....	25,070	July 31	68	653
Seneca Oil Works, Warren, Pa. Lubricating-oils.....	24,604	Apr. 24	67	527
Shadbolt & Boyd Iron Company, Milwaukee, Wis. Bar-iron.....	25,697	Dec. 18	69	1640
Shapleigh Coffee Company, Boston, Mass. Coffee and tea.....	24,504	Apr. 10	67	269
Sharp & Dohme, Baltimore, Md. Remedy for constipation, atonic dyspepsia, biliary engorgement, and other gastric disorders.....	25,231	Sept. 11	68	1387
Sharp & Dohme, Baltimore, Md. Named medicine.....	25,250	Sept. 18	68	1517
Sharp, Thomas, Florence, Ala., and Iron City and Sharp, Tenn. Iron ore and pig-iron.....	24,079	Jan. 16	66	456
Shaw Brothers, Birmingham, England. Coloring and finishing paints, kerosene, rosin, turpentine, and lubricants.....	24,792	May 29	67	1187
Shaw Brothers, Birmingham, England. Shingles, staves, casks, and barrels.....	24,799	May 29	67	1188
Shaw Brothers, Birmingham, England. Certain named machines, implements, and tools.....	25,194	Aug. 28	68	1142
Shaw Brothers, Birmingham, England. Canned goods, spices, flour, meal, sugar, tea, coffee, pepper, and salt.....	25,253	Sept. 18	68	1517
Shawmut Manufacturing Company, Boston, Mass. Artificial leather.....	24,165	Feb. 6	66	1000
Sherman, Frank, Shenandoah, Iowa. Remedy for rheumatism.....	24,055	Jan. 16	66	453
Shimer & Sons, Samuel J., Milton, Pa. Cutter and matcher-heads used in woodworking-machines.....	25,694	Dec. 18	69	1640
Shorey & Co., H., Montreal, Canada. Waterproofed cloths and garments made thereof.....	24,777	May 29	67	1186
Shute & Merchant, Gloucester, Mass. Fish.....	24,181	Feb. 6	66	1002
Siegel, Cooper & Company, Chicago, Ill. Sewing-machines.....	24,730	May 15	67	926
Sills & Grossman Company, Chicago, Ill. Flour-sifters.....	24,087	Jan. 23	66	647
Sills & Grossman Company, Chicago, Ill. Flour-sifters.....	24,088	Jan. 23	66	647
Silvermann & Co., Williamsport, Pa. Garters, hose-supporters, and sleeve-holders.....	24,488	Apr. 10	67	267
Simpson Brothers Company, Chicago, Ill. Cement and asphalt blocks and slabs for walks and floors.....	24,931	June 26	67	1718
Sing, Charles T., New York, N. Y. Certain named remedy.....	24,826	June 5	67	1328
Singer & Co., Coventry, England. Bicycles, tricycles, and other velocipedes.....	25,746	Dec. 25	69	1772

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Skilton & Co., N. C., Boston, Mass. Butter.....	24,750	May 22	67	1062
Slusser, Levi S. B., Mount Olivet, Cal. Antidotes for poisons or snake-bites.....	24,050	Jan. 16	66	453
Small, Herbert M., and H. B. Teed, Baldwinville, Mass. Soap and saponaceous compounds.....	24,543	Apr. 17	67	398
Smith, Charles A., Minneapolis, Minn. Artificial lumber or composition material.....	25,383	Oct. 16	69	368
Smith & Davis Manufacturing Company, St. Louis, Mo. Spring-beds or wire mattresses.....	24,403	Mar. 20	66	1892
Smith & Davis Manufacturing Company, St. Louis, Mo. Bed-springs.....	24,431	Mar. 27	66	2050
Smith, Doctter F., Lockney, Tex. Remedy for catarrh.....	25,576	Dec. 4	69	1357
Smith, Francis E., New York, N. Y. Flour.....	24,859	June 12	67	1444
Smith, Frank M., San Francisco, Cal. Borax.....	23,980	Jan. 2	66	169
Smith, Hogg & Gardner, New York, N. Y. Sheetings, shirtings, muslins, drillings, and denims.....	24,814	June 5	67	1326
Smith, J. F., Texarkana, Ark. Veterinary remedies.....	24,200	Feb. 6	65	1004
Smith, Martin H., New York, N. Y. Castor-oil and castor-oil combinations.....	25,458	Nov. 6	69	786
Smith & Ruse, Buffalo, N. Y. Trusses and supporters.....	24,046	Jan. 16	66	453
Smith & Scott, Paducah, Ky. Chewing and smoking tobacco.....	25,356	Oct. 16	69	365
Smith & Wesson, Springfield, Mass. Revolver-pistols.....	25,085	July 31	68	654
Smyrna Creamery Company, Limited, Smyrna, Pa. Butter.....	24,085	Jan. 23	66	647
Snell Cycle Fittings Company, Toledo, Ohio. Lamps.....	24,278	Feb. 13	66	1166
Snell Cycle Fittings Company, Toledo, Ohio. Bicycle-lamps.....	25,664	Dec. 11	69	1504
Société Anonyme d'Exploitation des Papeteries L. Lacroix Fils, Angoulême, France. Cigarette-paper.....	25,395	Oct. 23	69	506
Société Anonyme d'Exploitation des Papeteries L. Lacroix Fils, Angoulême, France. Cigarette-wrappers made of wheat-straw.....	25,573	Dec. 4	69	1357
Société Anonyme Union Fraternelle, Calonne lez Antioing, Belgium. Portland cement.....	24,930	June 26	67	1717
Soley, George B., Philadelphia, Pa. Medals.....	25,414	Oct. 30	69	636
Soley, George B., Philadelphia, Pa. Medals.....	25,415	Oct. 30	69	636
Soley, George B., Philadelphia, Pa. Medals.....	25,416	Oct. 30	69	636
Sommers, Isaac, New York, N. Y. Whisky.....	24,023	Jan. 9	66	312
Southern Specialty Co., Marlin, Tex. Medicinal preparation for fowls.....	25,182	Aug. 28	68	1140
Southington Cutlery Company, Southington, Conn. Pocket cutlery.....	24,694	May 8	67	810
Spaethe, Wilhelm, Gera, Germany. Accordions.....	24,909	June 26	67	1716
Sparks Milling Company, Alton, Ill. Wheat-flour.....	24,891	June 19	67	1568
Spaulding, Horatio N., Vandalia, Ill. Remedy for kidney, liver, and other diseases.....	24,628	May 1	67	673
Spaulding & Merrick, Chicago, Ill. Smoking and chewing tobacco.....	25,316	Oct. 9	69	239
Spear, Joshua, Boston, Mass. Remedies for catarrh and similar diseases.....	25,577	Dec. 4	69	1357
Spivey, Thomas S., Cincinnati, Ohio. Remedy for diseases of the lungs and air-passages.....	24,900	June 19	67	1569
Sporting Life Publishing Company, Philadelphia, Pa. Printed periodicals.....	24,653	May 8	67	807
Springsteen Medicine Company, Cleveland, Ohio. Certain named remedies.....	24,599	Apr. 24	67	527
Sproebnle & Co., F. M., Chicago, Ill. Catalogues and newspapers.....	25,663	Dec. 11	69	1504
Sprudel Water Company, Mount Clemens, Mich. Mineral waters and carbonated beverages.....	25,649	Dec. 11	69	1502
St. Louis Mercantile Co., St. Louis, Mo. Mocha coffee.....	25,047	July 24	68	530
Stafford Mineral Springs and Hotel Company, Limited, New Orleans, La. Natural mineral water.....	24,281	Feb. 27	66	1446
Standard Brewery, Chicago, Ill. Lager-beer.....	24,636	May 1	67	673
Standard Clothing Company, Boston, Mass. Coats, vests, and pantaloons.....	25,011	July 17	68	409
Standard Furniture Company, Herkimer, N. Y. Roll-top desks.....	24,368	Mar. 13	66	1754
Standard Plaster Company, Chicago, Ill. Prepared plasters and finishes.....	25,142	Aug. 14	68	911
Stanley Works, New Britain, Conn. Braces, bolts, nails, screws, washers, fastenings, and similar articles of builders' hardware.....	24,562	Apr. 17	67	399
Starbird, Walter B., San Francisco, Cal. Carbonated beverage containing the extract of sarsaparilla and iron.....	25,541	Nov. 20	69	1066
Starin, Clinton H., Prince's Bay, N. Y. Cleaning and polishing compound for metal and glass.....	25,075	July 31	68	653
Starkmann, Adolph, Scranton, Pa. Cigars and smoking-tobacco.....	25,732	Dec. 25	69	1770
Starr Co., C. R., Columbus, Ohio. Trunks.....	25,334	Oct. 9	69	240
Stead Soap Co., G. D., San Diego, Cal. Soap for laundry and toilet use.....	25,271	Sept. 25	68	1625
Stearns Shoe Co., Boston, Mass. Boots and shoes.....	25,441	Nov. 6	69	785
Steele & Dorgeloh, New York, N. Y. Dried currants.....	25,467	Nov. 6	69	787
Steketée, George G., Grand Rapids, Mich. Vermifuge.....	25,020	July 17	68	410
Stemmler, Theodore W., New York, N. Y. Analgesic and antipyretic compound.....	25,313	Oct. 9	69	239
Stephenson, Benjamin T., Boston, Mass. Temperance and summer beverages.....	25,051	July 24	68	531
Steppacher & Bro., Walter M., Philadelphia, Pa. Shirts.....	25,150	Aug. 21	68	1018
Sterling Dreing and Finishing Company, Sterling, Conn. Black-dyed fabrics.....	25,308	Oct. 9	69	238
Sterling Dreing and Finishing Company, Sterling, Conn. Black-dyed fabrics.....	25,309	Oct. 9	69	238
Stern, Arthur, New York, N. Y. Antidotes for uric-acid diathesis.....	25,981	Jan. 2	66	169
Stern & Saalberg, New York, N. Y. Candy and candied fruits and flowers.....	24,090	Jan. 23	66	648
Stern & Saalberg, New York, N. Y. Jelly compounds for table relishes.....	24,218	Feb. 13	66	1164
Stern & Sons, Charles, New York, N. Y., Chicago, Ill., and Boston, Mass. Wines, brandy, whisky, gin, cordials, be-r, and ale.....	25,050	July 24	68	530
Stewart, George B., Blue Rapids, Kans. Veterinary remedies.....	25,288	Oct. 2	69	118
Stiefel Bros., New York, N. Y. Sateen skirts.....	25,200	Sept. 4	68	1271
Stiewell, Abe, Little Rock, Ark. Bituminous, anthracite, and semi-anthracite coal.....	25,111	Aug. 7	68	768
Stillwell, Albert H., Philadelphia, Pa. Chocolate.....	24,386	Mar. 20	66	1890
Stobie Cereal Mills, St. Louis, Mo. Rolled oats.....	25,721	Dec. 25	69	1770
Stockwell, Albert M., Leominster, Mass. Shirts.....	24,913	June 26	67	1716
Stoddard, Llewellyn, L., New Haven, Conn. Mixture of Perique, Virginia, Havana, and Turkish tobaccos.....	25,657	Dec. 11	69	1503
Stone & Forsyth, Boston, Mass. Wrapping, writing, printing, and toilet paper.....	24,822	June 5	67	1327
Stone Medicine Company, Chicago, Ill. Bronchial wafers, troches, and lozenges.....	25,987	Jan. 2	66	169
Stork, Adam, Jr., Lancaster, Pa. Cigars.....	25,355	Oct. 16	69	365
Stott, David, Detroit, Mich. Wheat-flour.....	25,517	Nov. 13	69	943
Straus, Elise, St. Louis, Mo. Sweet-potato flour, bread and pastry made therefrom, and desiccated and sliced sweet potatoes.....	24,215	Feb. 13	66	1164
Straus, Elise, St. Louis, Mo. Evaporated carrots, parenips, rutabagas, turnips, and food products made therefrom.....	24,511	Apr. 10	67	269
Strass & Jandorf Shoe Company, Chicago, Ill. Shoes and slippers.....	25,341	Oct. 16	69	364
Strawbridge & Clothier, Philadelphia, Pa. Bonnets, hats, caps, and hoods for ladies and children.....	24,276	Feb. 27	66	1446
Strehler & Co., Apoth, Munich, Germany. Remedies for throat diseases.....	24,013	Jan. 9	66	311
Stribley & Co., Cincinnati, Ohio. Ladies' and misses' fine shoes.....	24,705	May 15	67	923
Strohl, Schwartz & Cie., La-Croix-aux-Mines, France, and Basle, Switzerland. Silk yarns, threads, braids, and twist.....	24,410	Mar. 27	66	2048
Stuart, Frank A., Marshall, Mich. Lozenges or tablets for dyspepsia and disorders of digestion.....	25,501	Nov. 13	69	941
Stuart Medicine Co., Elmira, N. Y. Cough remedy.....	25,292	Oct. 2	69	118
Stutz, Frank A., Bucyrus, Ohio. Blood, liver, kidney, and stomach medicines.....	23,988	Jan. 2	66	170
Sultan Drug Company, St. Louis, Mo. Remedies for diseases of the stomach and bowels.....	24,320	Mar. 6	66	1591
Sun Segar Co., St. Louis, Mo. Cigars and tobacco.....	25,466	Nov. 6	69	787
Swan, James, Seymour, Conn. Carpenters' and woodworking tools.....	24,283	Feb. 27	66	1446

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Sweatline Chemical Co., Washington, Kans., and Chicago, Ill. Specific for sweating feet.....	25,080	July 31	68	654
Sweeperette Co., Grand Rapids, Mich. Carpet-sweepers.....	25,738	Dec. 25	69	1771
Swift & Company, Chicago, Ill. Lard.....	24,512	Apr. 10	67	209
Swift & Company, Chicago, Ill. Lard.....	24,513	Apr. 10	67	269
Swift, Leonard N., Provincetown, Mass. Lubricant for bicycle and other chains.....	25,227	Sept. 11	68	1327
Swift Provision Co., Baltimore, Md. Hams, bacon, and lard.....	25,597	Dec. 4	69	1359
Swift Provision Co., Baltimore, Md. Hams, bacon, and lard.....	25,598	Dec. 4	69	1359
Sydney Ross Company, Maplewood, N. J., and New York, N. Y. Tonic pills.....	25,380	Oct. 16	69	368
Sykes Bros. & Co., New York, N. Y. Boys' suits.....	25,531	Nov. 20	69	1065
Sylvan Toilet Co., Detroit, Mich. Hair dressing.....	24,184	Feb. 6	66	1002
Sylvan Toilet Co., Detroit, Mich. Cosmetic, lotion, cream, jelly, and soap for the toilet.....	24,186	Feb. 6	66	1003
T. A. Slocum Company, New York, N. Y. Cod-liver oil and preparations thereof.....	24,688	May 8	67	809
Taffinder y Co., S. San Pedro de la Colonia, Mexico. Blood-purifying compounds.....	25,376	Oct. 16	69	367
Taft Medical Co., F. L., Burlington, Vt. Laxative.....	24,924	June 26	67	1717
Tarr & Wenson, Limited, Gloucester, Mass. Paint for ships and vessels.....	24,360	Mar. 13	66	1754
Tate, Henry W., Fremont, Nebr. Extract of sarsaparilla.....	24,092	Jan. 23	66	648
Taylor, Son & Co., Pittsburg, Pa. Men's pants and overalls.....	25,532	Nov. 20	69	1065
Taylor, Son & Co., Pittsburg, Pa. Hosiery.....	25,561	Dec. 4	69	1356
Taylor, Son & Co., Pittsburg, Pa. Gloves and mittens.....	25,562	Dec. 4	69	1356
Taylor, Son & Co., Pittsburg, Pa. Over and dress shirts.....	25,563	Dec. 4	69	1346
Taylor, Thomas P., Bridgeport, Conn. Dress-stays.....	24,284	Mar. 6	66	1588
Teed, Henry B. (See Small and Teed.)				
Telegram Cycle Manufacturing Company, Milwaukee, Wis. Cycles.....	24,700	May 8	67	810
Tempest, Francis, Birmingham township, Delaware county, Pa. Toilet paper.....	25,659	Dec. 11	69	1503
Terry, Ware & Alley, Brockton, Mass. Boots and shoes.....	24,634	May 1	67	673
Tetlow, Henry, Philadelphia, Pa. Face-powder.....	24,297	Mar. 6	66	1589
Tetlow, Henry, Philadelphia, Pa. Soap, perfume, and toilet powder.....	24,347	Mar. 13	66	1753
Tetlow, Henry, Philadelphia, Pa. Face-powder.....	24,538	Apr. 24	67	526
Thatcher & Co., H. D., Potsdam, N. Y. Baking-powder.....	24,338	Mar. 13	66	1752
Thompson Milling Company, Lockport, N. Y. Wheat-flour.....	24,553	Apr. 17	67	398
Thomson, William S., London, England. Perfumery, soaps, washes, lotions, and similar articles.....	25,428	Oct. 30	69	637
Thorp & Martin Company, Boston, Mass. Ink-ribbons.....	25,440	Nov. 6	69	785
Thurmayer, Adolph, Stuttgart, Germany. Insect-powders.....	24,586	Apr. 24	67	525
Thurmond, William J., Dallas, Tex. Catarrh cure, chill cure, and blood sirup.....	24,956	July 3	68	139
Tiffany Glass and Decorating Company, Jersey City, N. J., and New York, N. Y. Decorative glass.....	25,512	Nov. 13	69	942
Tilden Company, New Lebanon, N. Y. Medical compound for use as a tonic.....	23,982	Jan. 2	66	169
Tilghman, William G., Palatka, Fla. Condition-powders.....	24,756	May 22	67	1062
Tissera, Vincent L. (See Beling and Tissera.)				
Toledo, Bernardo de, Valencia, Spain. Remedy for phthisis, chloro-anæmia, and scrofula.....	24,958	July 3	68	140
Torrey & Bentley Company, Boston, Mass. Laundry, bath, and toilet soap.....	24,151	Jan. 30	66	843
Torrey & Bentley Company, Boston, Mass. White soap for the laundry, bath, and toilet.....	24,152	Jan. 30	66	843
Torrey & Bentley Company, Boston, Mass. Soap.....	24,495	Apr. 10	67	268
Tower & Lyon, New York, N. Y. Screw-drivers.....	25,740	Dec. 25	69	1771
Traudt, Francis J., St. Louis, Mo. Herb tea.....	25,378	Oct. 16	69	367
Trummer & Co. Successors, London, England. Friction-matches.....	24,103	Jan. 23	66	649
Tryon & Co., Edw. K., Jr., Philadelphia, Pa. Bicycle.....	24,880	June 12	67	1446
Twaddell, John P., Philadelphia, Pa. Shoes for men and boys.....	24,264	Feb. 20	66	1306
U. S. Novelty Company, Chicago, Ill. Chewing-gum.....	24,995	July 10	68	277
Union Bag and Paper Company, Chicago, Ill. Paper bags.....	25,734	Dec. 25	69	1771
Union Bag and Paper Company, Chicago, Ill. Paper bags.....	25,735	Dec. 25	69	1771
Union Bag and Paper Company, Chicago, Ill. Paper bags.....	25,756	Dec. 25	69	1772
Union Cement and Lime Company, Louisville, Ky. Cement, lime, or plaster-of-paris.....	24,608	Apr. 24	67	528
Union Cement and Lime Company, Louisville, Ky. Cement, lime, and plaster-of-paris.....	24,649	May 1	67	674
Union Metallic Cartridge Company, Bridgeport, Conn. Paper shot-shells.....	24,648	May 1	67	674
Union Metallic Cartridge Company, Bridgeport, Conn. Cartridge-shells.....	25,084	July 31	68	654
Union Pacific Salt Company, San Francisco, Cal. Dairy-salt.....	24,795	May 29	67	1188
Union Pacific Salt Company, San Francisco, Cal. Dairy-salt.....	24,796	May 29	67	1188
Union Pacific Salt Company, San Francisco, Cal. Dairy-salt.....	24,797	May 29	67	1188
Union Pacific Salt Company, San Francisco, Cal. Dairy-salt.....	24,798	May 29	67	1188
Union Pacific Tea Company, Newark, N. J., and New York, N. Y. Coffee.....	24,854	June 12	67	1444
Union Soap Co., Baltimore, Md. Laundry soap.....	25,032	July 17	68	411
United Kingdom Tea Company, Limited, London, England, New York, N. Y., and Paris, France. Tea, coffee, and other named beverages.....	24,269	Feb. 20	66	1306
United States Net and Twine Company, New York, N. Y. Fishing-reels and fishing-reel cross-plates.....	24,979	July 3	68	142
United States Radiator Company, Saltsburg, Pa. Steam and hot-water radiators.....	25,335	Oct. 9	69	240
Usher & Co., Andrew, Edinburgh, Scotland. Whisky.....	24,309	Mar. 6	66	1580
Usher & Co., Andrew, Edinburgh, Scotland. Whisky.....	24,950	July 3	68	139
Usher & Co., Andrew, Edinburgh, Scotland. Whisky.....	24,951	July 3	68	139
Usher & Co., Andrew, Edinburgh, Scotland. Whisky.....	24,952	July 3	68	139
Usher & Co., Andrew, Edinburgh, Scotland, and New York, N. Y. Whisky.....	24,985	Mar. 20	66	1890
Vail Brothers, Philadelphia, Pa. Certain named toilet preparations, including soap.....	24,824	June 5	67	1327
Van Ness, Eugene, and W. P. and S. H. Gaitskill, Baltimore, Md., and McIntosh, Fla. Oranges.....	24,432	Apr. 3	67	135
Van Ness, William P. (See Van Ness and Gaitskill.)				
Van Rensselaer, Charles K., Philadelphia, Pa. Varnish-brushes.....	24,289	Mar. 6	66	1588
Van Tassel & Tobey, Hudson, N. Y. Lintiment.....	25,023	July 17	68	410
Van Wie, Charles H., Albany, N. Y. Medicine for corns and bunions.....	24,832	June 5	67	1328
Vandeursen, C. S. & M., Chicago, Ill. Sauer-kraut.....	24,677	May 8	67	808
Varney, William R., Pittsburg, Pa. Liniments, ointments, dentine, suppositories, sirups, tonics, and nervines.....	25,176	Aug. 28	68	1139
Vereinigte Fabriken Photographischer Papiere, Dresden, Germany. Paper for photographic use.....	24,910	June 26	67	1716
Versteeg-Grant Shoe Company, St. Louis, Mo. Boots and shoes.....	24,528	Apr. 17	67	396
Vienna Bakery Company, Chicago, Ill. Bread.....	24,132	Jan. 30	66	842
Vienna Malt Coffee Co., Milwaukee, Wis. Coffee preparations.....	25,543	Nov. 20	69	1066
Violette, Bird & Co., James, Bordeaux, France. Dried prunes.....	25,646	Dec. 11	69	1502
Voland & Co., Franciscus, Lyons, France. Tissues and ribbons.....	25,559	Dec. 4	69	1356
Vulcanized Fibre Company, Wilmington, Del., and New York, N. Y. Compressed vegetable fiber and articles made therefrom, including such articles as washers, sheets, rolls, tubes, and tags.....	24,044	Jan. 16	66	452
W. T. C. Macallen Company, Boston, Mass. Electrical insulators.....	25,088	July 31	68	654
W. T. Garratt & Company, San Francisco, Cal. Ingots and bars of metal.....	24,981	July 3	68	142
Wabash Soap and Chemical Company, Wabash, Ind. Soap.....	24,187	Feb. 6	66	1003
Wabash Soap and Chemical Company, Wabash, Ind. Laundry and toilet soap.....	25,590	Dec. 4	69	1358
Wabash Soap and Chemical Company, Wabash, Ind. Soap.....	25,691	Dec. 18	69	1639

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Wagner & Co., F. W., Charleston, S. C. Lard.....	25,426	Oct. 30	69	637
Wagoner, Harry E., St. Louis, Mo. Rubber belting, packing, and hose, and rubber footwear and wearing-apparel.....	25,567	Dec. 4	69	1356
Wald, Adolph, New York, N. Y. Trousers or pantaloons.....	25,340	Oct. 16	69	364
Waldo Foundry, Bridgeport, Conn. Aluminum-gold knives, forks, spoons, flat and table ware.....	25,568	Dec. 4	69	1357
Waldron, Michael J., St. Louis, Mo. Furniture-polish.....	25,212	Sept. 4	68	1272
Walker, Arthur F., St. Johnsbury, Vt. Remedy for coughs, colds, and throat and lung affections.....	24,417	Mar. 27	66	2049
Wallace, Anna W., Allegheny, Pa. Liniment.....	24,691	May 8	67	810
Wallach, Isaac, New York, N. Y. Cotton and mixed cotton goods.....	25,008	July 17	68	409
Wallach, Isaac, New York, N. Y. Cotton and mixed cotton goods.....	25,009	July 17	68	409
Walsh & Co., John H., Boston, Mass. Whisky.....	23,969	Jan. 2	66	168
Walsh, Edward W., New York, N. Y. Printed publications.....	25,384	Oct. 23	69	505
Walter A. Wood Harvester Company, St. Paul, Minn. Binding-twine.....	24,736	May 22	67	1061
Walter A. Wood Harvester Company, St. Paul, Minn. Binding-twine.....	25,574	Dec. 4	69	1357
Walter A. Wood Harvester Company, St. Paul, Minn. Harvesting machinery for hay and grain.....	25,698	Dec. 18	69	1640
Walter M. Lowrey Company, Boston, Mass. Bonbons.....	24,972	July 3	68	141
Ward, William P., New York, N. Y. Cigarettes.....	21,887	June 19	67	1567
Warrick Brothers, London, England. Capsules, pills, and medicated jujubes.....	24,683	May 8	67	809
Washburn, Crosby Company, Minneapolis, Minn. Wheat-flour.....	25,219	Sept. 11	68	1386
Washburn, Crosby Company, Minneapolis, Minn. Wheat-flour.....	25,367	Oct. 16	69	366
Washburn, Crosby Company, Minneapolis, Minn. Wheat-flour.....	25,521	Nov. 13	69	943
Washburn & Moen Manufacturing Company, Worcester, Mass. Steel, iron, and copper wire.....	24,685	May 29	67	1188
Waterbury Clock Company, Waterbury, Conn. Clock-cases.....	25,086	July 31	68	654
Watkins, Elijah F., Palatine, W. Va. Liniments.....	24,474	Apr. 3	67	137
Watkins, John B., New York, N. Y. Printing and writing paper.....	24,335	Mar. 13	66	1752
Watts, William B. (See Mayer and Watts.)				
Waukesha-Lithia Spring Company, Chicago, Ill. Natural mineral water.....	24,531	Apr. 17	67	396
Wear & Boogher Dry Goods Company, St. Louis, Mo. Hosiery.....	25,442	Nov. 6	69	785
Weber, William A., Waukesha, Wis. Lager-beer.....	24,660	May 8	67	807
Weber's Medical Tea Co., Brooklyn, N. Y. Blood-purifying herb teas.....	24,783	May 29	67	1187
Webster & Co., S., Boston, Mass. Alterative compound and blood purifier.....	25,314	Oct. 9	69	239
Weeks & Potter Company, Boston, Mass. Cigars.....	24,246	Feb. 20	66	1304
Welsh, Samuel, Philadelphia, Pa. Plug-tobacco and snuff.....	24,516	Apr. 10	67	270
Wessel, Louis A., New York, N. Y. Whisky.....	25,715	Dec. 25	69	1769
West, Marshall O., New York, N. Y. Cotton, linen, woollen, and mixed fabrics.....	25,262	Sept. 25	68	1624
Westernman, Frederick, Chicago, Ill. Bread.....	25,593	Dec. 4	69	1358
Wetmore Worthley & Co., New York, N. Y. Certain named proprietary medicines, including embrocations, ointments, and tablets.....	25,175	Aug. 28	68	1139
Weyman, Benjamin F., Pittsburg, Pa., and New York, N. Y. Snuff.....	25,244	Sept. 18	68	1516
Weyman, Benjamin F., Pittsburg, Pa., and New York, N. Y. Snuff.....	25,245	Sept. 18	68	1516
Weyman, Benjamin F., Pittsburg, Pa., and New York, N. Y. Snuff.....	25,246	Sept. 18	68	1516
Wheatley & Bates, Limited, Sheffield, England. Certain named non-alcoholic beverages.....	24,019	Jan. 9	66	312
Wheatley & Bates, Limited, Sheffield, England. Certain named non-alcoholic beverages.....	24,020	Jan. 9	66	312
Wheeler, Felix A., Chicago, Ill. Antipyretic and anodyne powders for headache and neuralgia.....	24,867	June 12	67	1145
White & Bagley Company, Worcester, Mass. Belt-dressing.....	25,014	July 17	68	409
White Bros. & Co., Boston, and Lowell, Mass. Leather.....	24,412	Mar. 27	66	2048
White, John A., Concord, N. H. Crushed mica schist for food for poultry and birds.....	25,511	Nov. 13	69	942
White Rock Mineral Spring Company, Waukesha, Wis. Artificial mineral water.....	24,134	Jan. 30	66	842
White & Sons, R., London, England. Malt beverages.....	25,652	Dec. 11	69	1503
White & Sons, R., London, England. Malt beverages.....	25,653	Dec. 11	69	1503
Whiting Manufacturing Company, New York, N. Y. Flat and table silverware and jewelry.....	24,712	May 15	67	924
Whitman & Barnes Manufacturing Company, Akron, Ohio. Wrenches.....	24,768	May 22	67	1064
Whitman & Co., J. S., Orange, Mass. Prepared tapioca.....	25,220	Sept. 11	68	1386
Whitney & Wilson, Rochester, N. Y. Wheat-flour.....	25,188	Aug. 28	68	1141
Whitney & Wilson, Rochester, N. Y. Wheat-flour.....	25,523	Nov. 13	69	943
Wiebusch & Hilger, Limited, New York, N. Y. Anvils and blacksmiths' tools.....	24,108	Jan. 23	66	649
Wiebusch & Hilger, Limited, New York, N. Y. Firearms.....	24,646	May 1	67	674
Wiebusch & Hilger, Limited, New York, N. Y. Firearms.....	24,647	May 1	67	674
Wiedenmayer, George W., Newark, N. J. Lager-beer.....	23,970	Jan. 2	66	168
Wiener & Co., Newark, N. J. Saddlery hardware.....	24,326	Mar. 6	66	1592
Wilford, Firm of William, Tamise, Belgium. Waterproof cloth.....	25,755	Dec. 25	69	1772
Wilkins & Company, Washington, D. C. Butterine.....	24,462	Apr. 3	67	136
Wilkinson, Harris C., Chicago, Ill. Pills.....	25,177	Aug. 28	68	1140
Williams & Co., R. C., New York, N. Y. Certain named food products.....	24,892	June 19	67	1568
Williams Manufacturing Company, Plattsburg, N. Y. Sewing-machines and attachments.....	24,274	Feb. 20	66	1306
Williams Manufacturing Company, Plattsburg, N. Y. Sewing-machines and attachments.....	25,034	July 17	68	412
Williams Manufacturing Company, Plattsburg, N. Y. Sewing-machines and attachments.....	25,035	July 17	68	412
Williams, Wilford M., Indianapolis, Ind. Washing fluid.....	24,544	Apr. 17	67	398
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,626	Dec. 11	69	1500
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,627	Dec. 11	69	1500
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,628	Dec. 11	69	1500
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,629	Dec. 11	69	1501
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,630	Dec. 11	69	1501
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,631	Dec. 11	69	1501
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,632	Dec. 11	69	1501
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,633	Dec. 11	69	1501
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,634	Dec. 11	69	1501
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,635	Dec. 11	69	1501
Willmantic Linen Company, Hartford, Conn. Spool-cotton.....	25,636	Dec. 11	69	1501
Willis, Grinnell, New York, N. Y. Brown, bleached, and printed cotton goods.....	24,944	July 3	68	138
Wilson, George N. W., San Francisco, Cal. Razor-strops.....	24,261	Feb. 20	66	1305
Winchester Repeating Arms Company, New Haven, Conn. Paper-shell cartridges.....	24,764	May 22	67	1063
Winchester Repeating Arms Company, New Haven, Conn. Paper-shell cartridges.....	24,765	May 22	67	1063
Winkelmann & Brown Drug Company, Baltimore, Md. Insecticide.....	25,059	July 24	68	532
Winkelmann & Brown Drug Company, Baltimore, Md. Cosmetics, hair-oils, and perfumes.....	25,500	Nov. 13	69	941
Winkelmann, John H., Baltimore, Md. Nervine, tonic, restorative, and reparative remedy.....	24,629	May 1	67	673
Winsett, William J. S., Louis, Mo. Medicinal powder for the cure of catarrh.....	25,133	Aug. 14	68	911
Winzer & Wecker, Chemnitz, Germany. Knit underwear.....	24,569	Apr. 24	67	524
Wire Buckle Suspender Co., Williamsport, Pa. Men's suspenders and braces.....	24,119	Dec. 25	66	841
Witch City Cycle Co., Salem, Mass. Cycles.....	25,745	Dec. 4	69	1357
Wm. L. Gilbert Clock Company, Winsted, Conn., Chicago, Ill., and New York, N. Y. Clocks.....	25,569	Nov. 13	69	943
Wm. Schmidt Baking Company, Chicago, Ill. Bread, crackers, biscuits, cakes, and like articles.....	25,520	Oct. 16	69	365
Wolf & Gross, New York, N. Y. Hollow glass tableware.....	25,351	Mar. 13	66	1752
Wolf & Sons, S., Philadelphia, Pa. Whisky, gin, brandy, wine, and cordials.....	24,342			

Alphabetical list of trade-marks—Continued.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Vol.	Page.
Wolf & Sons, S., Philadelphia, Pa. Whisky	24,714	May 15	67	924
Wood, Annie L. (See Wood, Elizabeth and A. L.)				
Wood, Elizabeth and A. L., McGregor, Iowa. Certain named remedies	24,870	June 12	67	1445
Woodberry Manufacturing Company, Baltimore, Md. Cotton duck	21,039	Jan. 16	66	452
Woodberry Manufacturing Company, Baltimore, Md. Cotton duck	24,040	Jan. 16	66	452
Woodberry Manufacturing Company, Baltimore, Md. Cotton duck and twines	24,041	Jan. 16	66	452
Woodberry Manufacturing Company, Baltimore, Md. Cotton duck	24,287	Mar. 6	66	1588
Woodcock, Horace, Brookfield, Wis. Medicine for diseases of the bowels and stomach	24,496	Apr. 10	67	268
Woodcock, John C., Upper Sandusky, Ohio. Grinding feed-mills	24,241	Feb. 13	66	1166
Woods & Son, Joseph W., Boston, Mass. Cotton goods	24,265	Feb. 20	66	1306
Wool Oil Refining Company, Pompton Lakes, N. J. Wool-fat	24,929	June 26	67	1717
Wool Oil Refining Company, New York, N. Y. Wool-oil	25,401	Oct. 23	69	506
Woolson Spice Company, Toledo, Ohio. Coffee	24,451	Apr. 3	67	135
Woolson Spice Company, Toledo, Ohio. Spices and baking-powder	24,675	May 8	67	808
Woonsocket Rubber Company, Providence, R. I. Rubber boots	25,342	Oct. 16	69	364
Worcester Corset Company, Worcester, Mass. Corsets	24,489	Apr. 10	67	267
Worcester Corset Company, Worcester, Mass. Corset steels and clasps	24,490	Apr. 10	67	267
Worcester Corset Company, Worcester, Mass. Ladies' corsets	24,614	May 1	67	672
Work Bros. & Co., Chicago, Ill. Coats, vests, and pantaloons	25,038	July 24	68	529
Wormley, Emma J., Des Moines, Iowa. Complexion-powder	24,721	May 15	67	992
Wright, Firm of Alfred, Rochester, N. Y. Perfumery, toilet water, and face-powder	25,224	Sept. 11	68	1387
Wrisley, Allen B., Chicago, Ill. Toilet and laundry soap	24,624	May 1	67	275
Wyeth & Bro., John, Philadelphia, Pa. Beef juice	24,667	May 8	67	808
Yost, Joseph M., C. F. Green, and F. C. Houck, Williamsport, Pa. Liniment for external and internal use	24,230	Feb. 27	66	1446
Young, Frederick W., New Orleans, La. Baking-powder	24,857	June 12	67	1444
Yongg, Louie V., Chicago, Ill. Lotion for beautifying the skin	25,248	Sept. 18	68	1516
Young, Notley C., San Antonio, Tex. Remedy for the headache	23,989	Jan. 2	66	170
Young & Smylie, Brooklyn, N. Y. Licorice lozenges	24,250	Feb. 20	66	1304
Ziegler, Firm of H., New York, N. Y. Lager-beer	25,204	Sept. 4	68	1271
Zimmerman, Isaiah E., Paterson, N. J. Blood-purifier and liver and kidney regulator	24,466	Apr. 3	67	137
Zizelman & Bartlett, Cleveland, Ohio. Cleaning material for wall-paper	24,600	Apr. 24	67	527
Zurbrugg, Theophilus, Riverside, N. J. Watches and watchcases	24,481	Apr. 10	67	267
Zurbrugg, Theophilus, Riverside, N. J. Watches and watchcases	24,482	Apr. 10	67	267
Zurbrugg, Theophilus, Riverside, N. J. Watches and watchcases	24,483	Apr. 10	67	267
Zurbrugg, Theophilus, Riverside, N. J. Watches and watchcases	24,484	Apr. 10	67	267
Zurbrugg, Theophilus, Riverside, N. J. Watches and watchcases	24,485	Apr. 10	67	267
Zurbrugg, Theophilus, Riverside, N. J. Watchcases	24,710	May 15	67	923

PRINTS.

Name, residence, and title.	No.	Date.	Official Gazette.	
			Volume.	Page.
Feinberg, Isaac H., Boston, Mass. "Look for This Label."	6	Nov. 20	69	956
Green, Shipton, New York, N. Y. "Carne Fresca Americana"	5	Aug. 28	68	1028
J. Ottmann Lithographing Company, New York, N. Y. "Dr. Kilmer Swamp Root"	3	June 12	67	1336
J. Ottmann Lithographing Company, New York, N. Y. "We Feed the World."	4	Aug. 7	68	662

DISCLAIMERS.

Name, residence, and invention.	No.	Filed.	Official Gazette.	
			Volume.	Page.
Campbell, Charles H., Watertown, N. Y.; disclaimer filed by assignee. Paper-machines	393,538	Jan. 5, 1894	66	177
Clark, John W., Menands, N. Y.; disclaimer filed by patentee and assignee. Electric trolley-wheel	503,562	Nov. 19, 1894	69	1074
Earl, Edwin T., Los Angeles, Cal.; disclaimer filed by patentee. Ventilator and refrigerator cars. (Reissue)	11,324	Mar. 5, 1894	66	1599
Gent, Joseph F., Columbus, Ind.; disclaimer filed by assignee. Prepared cereals	223,847	Feb. 2, 1894	66	353
Gent, Joseph F., Columbus, Ind.; disclaimer filed by assignee. Brewing malt liquors	262,761	Nov. 15, 1894	69	955
Mitchell, N. Chapman, Philadelphia, Pa.; disclaimer filed by assignee. Recovering rubber from waste	300,720	Jan. 8, 1894	66	321
Norris, George E., Troy, N. Y.; disclaimer filed by patentee. Machine for turning cuff-blanks	520,535	Oct. 6, 1894	69	247
Piper, Edward E., Portland, Me.; disclaimer filed by patentee. Curtain-holding device	516,280	Nov. 20, 1894	69	1074
Titus, James M., Petersburg, Va.; disclaimer filed by assignee. Machines for cutting box-patterns	272,354	Jan. 22, 1894	66	679
Whitehead, William T., Magog, Canada; disclaimer filed by assignee. Aniline-black resist	499,689	Aug. 21, 1894	68	1027
Whitehead, William T., Magog, Canada; disclaimer filed by assignee. Aniline-black resist	499,692	Aug. 21, 1894	68	1027

ALPHABETICAL LIST OF INVENTIONS.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Specification.	Drawing.	Volume.	Page.
Abdominal bandage.....	M. Heath.....	514,930	Feb. 20	1583	398	66	1185
Abdominal supporter.....	E. F. De Lashmott.....	512,814	Jan. 16	1833	434	66	373
Abdominal supporter.....	B. F. Golding.....	522,366	July 3	325	83, 84	68	64
Abdominal supporter.....	A. H. Wade.....	517,941	Apr. 10	856	215	67	178
Abdominal supporter.....	M. A. Woods.....	522,394	July 3	385	98	67	76
Accordion.....	J. Galleazzi.....	517,648	Apr. 3	3-7	92, 93	67	75
Accordion. Zither.....	T. J. Müller.....	523,902	July 31	3010	748	68	623
Account-keeping apparatus.....	S. H. Boylan.....	516,961	Mar. 20	2038	482	66	1865
Account-keeping device.....	E. McCulley.....	526,194	Sept. 18	1519	356	68	1451
Accumulator-plate.....	C. J. Barbier.....	521,970	June 26	2176	522	67	1645
Acid and caustic alkali. Making nitric.....	G. Lunge and F. M. Lyte.....	514,124	Feb. 6	230	.....	66	898
Acid and metals from nitrates. Producing nitric.....	J. D. Darling.....	517,001	Mar. 20	2101	497	66	1876
Acid. Apparatus for charging liquids with carbonic.....	J. F. Theurer.....	512,070	Jan. 2	569	134	66	108
Acid. Apparatus for charging liquids with carbonic.....	J. F. Theurer.....	519,140	May 1	353	84	67	606
Acid, &c. Apparatus for condensing nitric.....	E. Hart.....	525,761	Sept. 11	763	177	68	1303
Acid. Apparatus for distributing carbonic.....	E. Rueff.....	518,513	Apr. 17	1870	463	67	373
Acid. Apparatus for making sulfuric.....	P. S. Gilchrist.....	527,680	Oct. 16	1653	398	69	335
Acid by means of heated gases. Apparatus for concentrating sulfuric.....	J. L. Kessler.....	520,994	June 5	434	104	67	1275
Acid. Concentrating sulfuric.....	W. Wolters.....	514,983	Feb. 20	1662	.....	66	1199
Acid. Making citric.....	C. Welmer.....	515,033	Feb. 20	1745	.....	66	1213
Acid. Making concentrated nitric.....	H. A. Frisch.....	517,098	Mar. 27	2296	541	66	1930
Acid. Making nitric.....	M. Prentice.....	526,116	Sept. 18	1383	322	68	1427
Acid. Making salicylic.....	S. Marasse.....	529,182	Nov. 13	1186	.....	69	821
Acid. Manufacture of anhydrous stannic.....	I. A. F. Bang and M. C. A. Ruffin.....	529,100	Nov. 13	1042	.....	69	856
Acid. Manufacturing hypochlorous.....	G. A. Canno.....	523,263	July 17	1893	476	68	387
Acid monamid. Naphthol trisulfonic.....	H. Kužel.....	511,898	Jan. 2	291	.....	66	56
Acid. Petroleum sulfo.....	H. A. Frisch.....	518,989	May 1	85	.....	67	552
Acid. Petroleum sulfo.....	H. A. Frisch.....	518,990	May 1	87	.....	67	552
Acid. Phenylrosindulin sulfo.....	C. Schraube and E. Romig.....	524,221	Aug. 7	432	.....	68	741
Acid. Process of and apparatus for making carbonic.....	A. Van Berkel and R. Fliess.....	513,691	Jan. 30	3279	807	66	751
Acid-proof composition.....	J. A. Just.....	520,600	May 29	2886	.....	67	1133
Acid. Purifying tannic.....	B. Reinus.....	517,626	Apr. 3	344	.....	67	67
Acid, sodium sulfate, magnesium sulfate, &c. Obtaining carbonic.....	E. W. Enequist.....	523,651	July 24	2552	.....	68	523
Acid with an absorbent. Phosphoric.....	G. Descamps.....	527,670	Oct. 16	1631	.....	69	331
Adding apparatus.....	K. E. Wiberg.....	517,319	Mar. 27	2659	624	66	2000
Adding-machine.....	R. Baumann.....	522,098	June 26	2389	575	67	1684
Adding-machine.....	L. S. Burridge and N. R. Marshman.....	513,452	Jan. 23	2855	700	66	638
Adding-machine.....	W. H. Clark.....	516,985	Mar. 20	2076	{ 491 492 }	66	1872
Adding-machine.....	H. D. Hicks.....	528,596	Nov. 6	130	31, 32	69	670
Adding-machine.....	S. L. Hulzer.....	515,228	Feb. 20	2056	512	66	1271
Adding-machine.....	A. B. Lennox.....	519,960	May 15	1782	436	67	899
Adding-machine.....	H. B. Martin.....	529,799	Nov. 27	2261	539	69	1106
Adding-machine.....	W. K. Nichols.....	517,291	Mar. 27	2613	{ 613 614 }	66	1992
Adding-machine.....	J. P. Royall.....	521,221	June 12	834	{ 195 196 }	67	1361
Adding-machine.....	G. D. Strayer.....	514,785	Feb. 13	1354	338	66	1126
Adding-machine.....	F. Sweet.....	519,358	May 8	778	190	67	701
Adding-machine. Electrically-operated.....	R. Baumann.....	522,097	June 26	2386	{ 574 575 651 652 653 654 }	67	1683
Adding, subtracting, and recording machine.....	W. W. Hopkins.....	517,383	Mar. 27	2763	.....	66	2022
Address-labels. Machine for attaching.....	A. Heim.....	512,295	Jan. 9	936	{ 227 228 }	66	189
Addresser.....	J. R. Van Wormer.....	523,025	July 17	1475	367	68	310
Addressing envelopes and wrappers. Machine for.....	C. A. Belknap.....	523,451	July 24	2215	{ 556 557 }	68	460
Addressing envelopes, &c. Machinery for.....	G. Clark.....	531,021	Dec. 18	1648	391	69	1545
Addressing-machine.....	E. E. Hanna.....	514,363	Feb. 6	657	167	66	976
Addressing-machines. Stencil-card for.....	C. A. Belknap.....	524,081	Aug. 7	190	43	68	696
Adjustable and folding chair.....	W. B. White.....	515,387	Feb. 27	2341	581	66	1337
Adjustable bracket.....	A. W. Browne.....	526,020	Sept. 18	1215	280	68	1397
Adjustable bracket for shade or other rollers.....	J. A. Dwyer.....	527,951	Oct. 23	2127	510	69	439
Adjustable chair.....	C. H. Knight.....	516,493	Mar. 13	1249	299	66	1701
Adjustable chair.....	C. H. Knight, L. A. Chichester, and D. S. Relyea.....	525,051	Aug. 28	1881	{ 460 461 }	68	1050
Adjustable chair.....	J. R. Miller.....	523,049	July 17	1506	376	68	316
Adjustable screen.....	J. E. Symes.....	513,468	Jan. 23	2886	710	66	644
Adjustable wrench.....	J. T. Trench.....	520,004	May 22	2016	492	67	957
Advertisements. Apparatus for displaying.....	H. E. Turpin.....	525,636	Sept. 4	522	126	68	1248
Advertising apparatus.....	A. Berliuer.....	521,009	June 5	460	110	67	1279
Advertising apparatus.....	W. H. Reiff.....	527,024	Oct. 2	578	140	69	109

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Advertising. Apparatus for successively displaying tablets for	F. J. Beaumont.....	514,345	Feb. 6	629	161	66	971
Advertising apparatus. Mechanical.....	J. H. Dales and H. G. Unsworth.....	512,163	Jan. 2	729	177	66	139
Advertising-board.....	G. C. Evans and J. W. Layne.....	530,756	Dec. 11	1204	293	69	1449
Advertising-cabinet.....	A. Bourlier.....	525,185	Aug. 28	2121	517	68	1091
Advertising-cards. Means for displaying.....	R. Hay.....	514,072	Feb. 6	151	36	66	883
Advertising device.....	H. F. Attaway.....	516,884	Mar. 20	1907	450	66	1841
Advertising device.....	R. D. Knight.....	525,740	Sept. 11	730	168	68	1297
Advertising device.....	B. D. Milliken.....	521,961	June 26	2163	519	67	1642
Advertising device.....	A. A. Root.....	521,990	June 26	2222	535	67	1652
Advertising device.....	E. Walker.....	524,745	Aug. 21	1333	326	68	935
Advertising device. Aerostatic.....	N. Burgess.....	522,505	July 3	559	143	68	110
Advertising device. Automatic.....	B. H. May and J. H. Morrissey.....	528,334	Oct. 30	2806	678	69	576
Advertising device. Portable.....	P. E. Bergeman.....	512,937	Jan. 16	2044	{ 484 } 485	66	413
Advertising device. Token.....	W. Cummings.....	523,269	July 17	1899	478	68	388
Advertising-letter.....	T. E. Dean.....	522,154	June 26	2496	599	67	1703
Advertising-machine.....	W. T. Shirley.....	528,814	Nov. 6	518	{ 125 } 126	69	740
Advertising-machine. Coin-controlled.....	H. A. Manley.....	523,126	July 17	1652	413	68	343
Advertising machine. Sign.....	O. P. Briggs and W. R. Patterson.....	531,018	Dec. 18	1639	389	69	1543
Advertising match-box.....	J. J. Harrison.....	521,212	June 12	815	{ 191 } 192	67	1358
Advertising or display device.....	A. von Cotzhausen.....	529,602	Nov. 20	1944	462	69	1040
Advertising or other sign.....	R. Henderson.....	530,226	Dec. 4	266	66	69	1263
Advertising or signaling apparatus. Electric.....	G. L. Schneider.....	520,223	May 22	2261	550	67	999
Advertising purposes. Cabinet for.....	G. H. Strong.....	530,668	Dec. 11	1062	258	69	1423
Advertising purposes. Construction of buildings for.....	E. Nicolas.....	528,789	Nov. 6	472	116	69	732
Advertising purposes. Mechanical artificial flower for.....	J. E. Wenger.....	530,870	Dec. 11	1379	329	69	1481
Advertising shipping-tag.....	A. S. Terrill.....	526,590	Sept. 25	2198	{ 525 } 526	68	1593
Advertising-sign device.....	W. C. Morrison.....	528,256	Oct. 30	2678	646	69	554
Advertising-wagon.....	J. N. Russell.....	520,541	May 29	2783	673	67	1113
Aerated liquids. Apparatus for producing and containing.....	C. Hatton.....	519,604	May 8	1204	290	67	778
Aerating and carbonating water. Apparatus for.....	T. Craney.....	524,888	Aug. 21	1569	383	68	977
Aerating water used in baths. Process of and apparatus for.....	W. Lippert.....	523,220	July 17	1815	455	68	372
Aerator.....	J. W. Dickinson.....	514,915	Feb. 20	1564	392	66	1181
Aerator.....	H. Fowell.....	526,998	Oct. 2	533	131	69	100
Aerial locomotive.....	C. G. Cross.....	516,265	Mar. 13	870	{ 203 } 204	66	1632
Aerial navigation. Apparatus for.....	N. H. Borgfeldt.....	530,219	Dec. 4	252	62	69	1261
Aerial-vehicle propeller.....	H. Ganswindt.....	526,700	Oct. 2	53	13	69	13
Aerial vessel.....	J. B. Blanchard.....	514,408	Feb. 6	718	{ 182 } 183	66	989
Aerial vessel.....	S. Spaeth.....	514,287	Feb. 6	536	132	66	954
Aging wines or distilled liquors. Apparatus for.....	T. R. Timby.....	527,564	Oct. 16	1457	{ 354 } 355	69	299
Agricultural machine.....	A. Carr.....	512,006	Jan. 2	463	110	66	89
Agricultural machine. Convertible.....	S. J. Conkwright.....	527,363	Oct. 9	1123	{ 274 } 275	69	223
Agricultural machinery. Gearing and gear-covering for.....	J. D. Schofield.....	531,278	Dec. 18	2118	508	69	1630
Air and gas mixing apparatus.....	W. Hay and W. M. Kearns.....	518,451	Apr. 17	1768	438	67	356
Air and steam engine and generator. Mixed.....	H. E. Depp.....	521,762	June 19	1805	428	67	1556
Air and ventilating. Apparatus for humidifying.....	W. Matthews, J. and W. Yates.....	516,770	Mar. 20	1726	406	66	1804
Air and water purifier.....	C. F. Buckley.....	511,995	Jan. 2	413	104	66	84
Air. Apparatus for generating compressed.....	E. C. Nichols.....	530,118	Dec. 4	74	20	21	1229
Air. Apparatus for heating and medicating compressed.....	W. S. McLean.....	514,956	Feb. 20	1622	407	66	1192
Air-attenuating apparatus.....	J. F. Dornfeld.....	513,487	Jan. 30	2924	{ 720 } 721	66	686
Air-brake.....	R. W. Bayley.....	528,712	Nov. 6	331	81	69	706
Air-brake.....	F. L. Clark.....	522,825	July 10	1128	280	68	228
Air-brake.....	C. R. James.....	524,990	Aug. 21	1753	{ 427 } 428	68	1011
Air-brake.....	F. Lansberg.....	516,936	Mar. 20	1996	470	66	1857
Air-brake.....	J. D. P. Schenck.....	524,073	Aug. 7	173	40	68	694
Air-brake.....	J. D. P. Schenck.....	531,137	Dec. 18	1854	440	69	1583
Air-brake.....	G. W. Willson.....	516,692	Mar. 20	1595	380	66	1782
Air-brake apparatus.....	J. H. O'Hara.....	519,681	May 8	1335	322	67	801
Air-brake apparatus.....	M. L. Rothschild.....	515,616	Feb. 27	2703	672	66	1407
Air-brake apparatus.....	J. B. Stewart.....	517,250	Mar. 27	2545	597	66	1978
Air-brake attachment.....	T. L. Richardson.....	513,145	Jan. 23	2362	{ 570 } 571	66	544
Air-brake. Automatic.....	J. P. Brown.....	520,391	May 22	2535	613	67	1053
Air-brake. Car.....	J. F. Voorhees.....	524,050	Aug. 7	130	30	68	66
Air-brake coupling.....	W. Borbridge, T. Fraser, and W. Prenter.....	526,178	Sept. 18	1483	347	68	1445
Air-brake coupling.....	W. A. and B. S. H. Harris.....	515,219	Feb. 20	2040	{ 508 } 509	66	1268
Air-brake coupling. Automatic.....	W. M. Edwards.....	527,838	Oct. 23	1903	459	69	398
Air-brake coupling. Automatic.....	W. A. and B. S. H. Harris.....	515,220	Feb. 20	2043	{ 509 } 510	66	1268
Air-brake coupling. Automatic.....	W. A. and B. S. H. Harris.....	516,202	Mar. 13	767	{ 179 } 180	66	1612
Air-brake couplings. Sealing-cap for.....	H. C. McCarty.....	529,290	Nov. 13	1372	330	69	915
Air-brake for cars.....	J. F. Voorhees.....	525,876	Sept. 11	985	{ 221 } 222	68	1343
Air-brake governor.....	T. H. Haberkorn.....	531,181	Dec. 18	1936	460	69	1598
Air-brake mechanism.....	J. B. Knudsen.....	525,686	Sept. 4	618	147	68	1264
Air-brake mechanism.....	E. G. Shortt.....	530,904	Dec. 11	1434	340	69	1492

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Air-brake mechanism. Automatic.	G. S. Jeffries	513,267	Jan. 23	2568	620	66	584
Air-brake-regulating apparatus	H. E. Hunt	529,270	Nov. 13	1341	321	69	909
Air-brake retainers. Controller and arighter for	J. K. Lencke	517,955	Apr. 10	894	223 224 225	67	184
Air-brake retainers. Controller and arighter for	J. K. Lencke and F. D. Merchant	517,954	Apr. 10	890	223 223	67	183
Air-brake signal apparatus	E. P. Bishop, Jr.	531,554	Dec. 25	2653	636	69	1749
Air-brake system	M. L. Rothschild	515,617	Feb. 27	2704	672 673	66	1407
Air-brake systems. Locking stop-cock for train-pipes of	J. T. Eldridge	527,327	Oct. 9	1067	258	69	212
Air-brakes. Automatic lock for	W. Mable	526,189	Sept. 18	1507	353	68	1449
Air-brakes. Block system for automatically operating	J. H. Fox	530,937	Dec. 18	1492	354	69	1518
Air-brakes. Dog for actuating	J. H. Fox	530,939	Dec. 18	1498	355	69	1519
Air-brakes. Mechanism for automatically actuating.	J. H. Fox	530,938	Dec. 18	1495	354 355	69	1518
Air-brakes. Track device to automatically operate.	J. P. Clifton	531,100	Dec. 18	1785	425	69	1570
Air-compressing apparatus	M. Flood	519,383	May 8	815	198 199	67	709
Air-compressing device	W. U. Griffiths and H. Niedermayer.	530,335	Dec. 4	457	114	69	1297
Air-compressing device	W. U. Griffiths and H. Niedermayer.	530,336	Dec. 4	459	115	69	1297
Air-compressor	J. Birner and H. Messing	520,405	May 29	2562	619 620	67	1073
Air-compressor	P. Brotherhood	515,282	Feb. 20	2145	533	66	1289
Air-compressor	H. C. Sergeant	530,662	Dec. 11	1052	256	69	1421
Air-compressor. Compound hydraulic	W. A. Babcock	523,064	July 17	1522	381	68	319
Air-compressor. Double-acting hydraulic.	J. H. Champ	523,830	July 31	2885	717	68	600
Air-compressor. Hydraulic	J. H. Champ	513,556	Jan. 30	3054	752	66	710
Air-compressor. Hydraulic	J. H. Champ	515,516	Feb. 27	2537	629	66	1373
Air-compressor. Hydraulic	E. Schutz and J. H. Henderson.	517,628	Apr. 3	347	82	67	68
Air-compressor. Pedal	J. North	527,248	Oct. 9	935	226	69	189
Air-compressor regulator	H. C. Sergeant	514,839	Feb. 13	1440	361	66	1143
Air cooling and drying apparatus.	W. Alsop and W. Blackall	520,130	May 22	2097	509 510	67	968
Air-cooling apparatus	J. Murray	512,987	Jan. 16	2127	505	66	428
Air-draft-control apparatus	H. Recknagel	529,191	Nov. 13	1201	290	69	884
Air for power purposes. Apparatus for heating compressed	R. A. Parke	513,053	Jan. 16	2223	534	66	446
Air-forcing apparatus	B. F. Evans	517,039	Mar. 27	2183	517	66	1908
Air, gas, &c. Receptacle or tank for the storage of compressed	W. Timmis	517,777	Apr. 3	609	151	67	118
Air-heating apparatus	J. Howden	518,455	Apr. 17	1776	441	67	357
Air-inlet or draft doors. Means for opening or closing.	C. A. Gifford	529,166	Nov. 13	1152	277	69	876
Air-moistening apparatus	E. Kleiner, W. Bokmayer, and O. Hoffmann.	514,556	Feb. 13	965	244	66	1053
Air or gas compressor	H. A. Barber	526,228	Sept. 18	1674	395	68	1482
Air or gas compressor	C. W. Miles	531,552	Dec. 25	2604	623	69	1739
Air purifier. Return-	D. W. Marnon	513,123	Jan. 23	2330	561	66	537
Air purifier. Return-	J. Warrington	527,910	Oct. 23	2052	492	69	425
Air-ship	D. Hurlbut	526,394	Sept. 25	1879	446 447	68	1535
Air sieve, purifier, and dust-collector. Combined return-	A. C. Brantingham	527,938	Oct. 23	2102	504	69	434
Alarm:							
See Bell-alarm.	Low-water boiler-alarm.						
Bell and burglar alarm.	Overflow-alarm.						
Bicycle-alarm.	Pressure-gage electric alarm.						
Bilge-water alarm.	Refrigerator leak-alarm.						
Boiler water-alarm.	Thermal alarm.						
Burglar-alarm.	Thermostatic alarm.						
Electric alarm.	Time-alarm.						
Fire-alarm.	Train-robber-alarm.						
Leak-alarm.	Watch-alarm.						
Low-pressure alarm.	Water-alarm.						
Alarm-box. Automatic	J. H. Smith	515,260	Feb. 20	2111	524	66	1281
Alarm-lock. Electric	J. Slater	525,291	Aug. 28	2278	555	68	1123
Alarm-lock for doors, &c.	J. F. Graybill	527,527	Oct. 16	1404	342	69	289
Alarm operating mechanism. Electric.	P. C. Thompson	526,760	Oct. 2	155	37	69	30
Alarm-register. Automatic	C. C. Fields	520,159	May 22	2149	524	67	979
Alarm-signal. Automatic	H. S. Bodley and A. P. St. Martin	523,194	July 17	1776	446	68	365
Album	C. Jaeger	527,204	Oct. 9	854	208	69	174
Album. Cabinet-	J. M. Ray	525,719	Sept. 11	692	160	68	1291
Album. Basel-	W. A. Holman	513,108	Jan. 23	2295	555	66	530
Album. Photograph-	J. Ekval	518,346	Apr. 17	1582	392	67	322
Album. Photograph-	G. Koll	521,569	June 19	1464	342	67	1494
Alcohol. Making phenol	O. Manasse	526,726	Oct. 2	197	.....	69	37
Alcoholic liquors. Preparing and making fermented.	J. Takamine	525,819	Sept. 11	870	.....	68	1322
Ale-drawing device	J. Farmer	512,951	Jan. 16	2074	491	66	418
Ale or beer condenser and cooler.	J. T. Jones	530,309	Dec. 4	409	102	69	1289
Alfalfa track cleaner.	W. P. Harris and W. R. D. Allen	522,205	July 3	37	9	68	9
Aligning machinery. Method of and apparatus for.	R. J. Snyder	529,315	Nov. 13	1423	342	69	925
Alkali and lead chlorid. Making caustic	F. M. Lyte and G. Lunge.	514,125	Feb. 6	232	.....	66	898
Alkali. Apparatus for manufacturing caustic.	I. L. Roberts	522,617	July 10	767	193	68	164
Alkali. Process of and apparatus for the production of caustic	C. T. J. Vantin	531,235	Dec. 18	2041	486 487	69	1616
Alkali salts. Making	H. S. Blackmore	513,001	Jan. 16	2152	.....	66	433
Alkaline salts. Process of and apparatus for electrolytic decomposition of	H. Y. Castner	528,322	Oct. 30	2787	673	69	573
Alloy. Aluminium	R. I. Roman	528,181	Oct. 30	2540	.....	69	529
Alloying lead and zinc	F. J. Clamer	528,923	Nov. 13	751	.....	69	804
Alumina. Making	K. J. Bayer	515,895	Mar. 6	257	66	1502
Alumina. Making porous sulfate of.	J. Enequist	520,416	May 29	2574	67	1076

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Aluminium. Improving surfaces of	A. V. Davis	528,513	Oct. 30	3116	69	632
Aluminium. Manufacturing	W. E. Case	512,801	Jan. 16	1806	66	369
Aluminium. Manufacturing	W. E. Case	512,802	Jan. 16	1807	.....	66	369
Aluminium. Reducing	F. A. Gooch and L. Waldo	527,847	Oct. 23	1930	464	69	402
Aluminium. Reducing	F. A. Gooch and L. Waldo	527,848	Oct. 23	1934	464	69	402
Aluminium. Reducing	F. A. Gooch and L. Waldo	527,849	Oct. 23	1937	465	69	403
Aluminium. Reducing	F. A. Gooch and L. Waldo	527,850	Oct. 23	1941	465	69	403
Aluminium. Reducing	F. A. Gooch and L. Waldo	527,851	Oct. 23	1945	466	69	404
Aluminium. Reducing	F. A. Gooch and L. Waldo	528,365	Oct. 30	2859	692	69	586
Aluminium. Reducing	L. Waldo and F. A. Gooch	527,846	Oct. 23	1927	693	69	401
Aluminous cake and making same	J. V. Skoglund	526,205	Sept. 18	1541	.....	68	1456
Aluminous minerals. Purifying	H. F. D. Schwahn	514,039	Feb. 6	103	.....	66	873
Aluminium compounds. Making	W. E. Case	512,803	Jan. 16	1808	.....	66	369
Aluminium fluorid. Making	W. Ackermann	513,971	Feb. 6	1	.....	66	855
Aluminium sulfid. Making	C. T. J. Vautin	513,660	Jan. 30	3235	.....	66	742
Amalgamating and concentrating apparatus	A. Tornaghi	513,158	Jan. 23	2382	375	66	547
Amalgamating apparatus	S. L. Prieststone	525,622	Sept. 4	502	121	68	1245
Amalgamating apparatus. Electric ore	J. C. Ludwig	527,150	Oct. 9	775	189	69	159
Amalgamating machine. Gold	P. E. Gaffron	520,847	June 5	170	37	67	1228
Amalgamating-machine water-jet	A. W. Robinson	523,410	July 24	2137	536	68	447
Amalgamating-machines. Amalgam-trough and water-supply pipe for	A. W. Robinson	523,411	July 24	2139	537	68	448
Amalgamating-machines. Tailings-discharge apparatus for	A. W. Robinson	523,409	July 24	2136	536	68	447
Amalgamating ores. Method of and apparatus for	H. F. Edwards	518,543	Apr. 17	1917	473	67	382
Amalgamating silver ores	A. Janin	516,055	Mar. 6	524	122	66	1550
Amalgamator	E. S. Bennett	516,623	Mar. 13	1471	348	66	1743
Amalgamator	E. S. Bennett	516,624	Mar. 13	1472	349	66	1743
Amalgamator	L. D. Coe	531,611	Dec. 25	2702	648	69	1759
Amalgamator	G. Delage	521,145	June 5	695	162	67	1321
Amalgamator	J. L. Hayward and A. W. Robinson	523,400	July 24	2118	532	68	444
Amalgamator	J. Jett	525,994	Sept. 11	1156	263	68	1374
Amalgamator	A. C. McDonald	525,352	Sept. 4	51	14	68	1160
Amalgamator	D. A. Patterson and E. Anderson	512,895	Jan. 16	1977	469	66	401
Amalgamator	C. F. Pike	528,976	Nov. 13	840	198	69	819
Amalgamator	E. J. Powell	522,488	July 3	531	135	68	105
Amalgamator	N. L. Raber	517,767	Apr. 3	592	145	67	114
Amalgamator	H. L. Simmons	528,815	Nov. 6	523	126	69	740
Amalgamator and separator	J. W. Bailey	531,296	Dec. 25	2150	515	69	1651
Amalgamator and separator for recovering precious metals from ores	E. Reading and A. Rigby	527,076	Oct. 9	654	158	69	137
Amalgamator and settler	G. W. Strong	522,807	July 10	1098	271	68	223
Amalgamator-screen bearing	A. W. Robinson	523,408	July 24	2135	536	68	447
Amalgamator sluice-box. Automatic	H. L. Phillips	528,969	Nov. 13	828	194	69	817
Ammeter	E. R. Knowles	520,963	June 5	381	93	67	1267
Ammeter and voltmeter	F. Perry and C. E. Holland	511,791	Jan. 2	74	18, 19	66	17
Ammonia. Apparatus for making anhydrous	P. J. McMahon	525,858	Sept. 11	952	214	68	1337
Ammonia. Apparatus for obtaining	L. Sternberg	522,357	July 3	310	80	68	61
Ammonia-liquor. Apparatus for causticizing	E. Solvay	518,429	Apr. 17	1728	430	67	349
Ammonia. Making	L. Sternberg	523,819	July 31	2264	711	68	598
Ammonia. Manufacturing	H. A. Frasch	515,909	Mar. 6	276	65	66	1505
Ammonia. Process of and apparatus for manufacturing aqua	T. Charlton and K. M. Mitchell	521,401	June 12	1150	273	67	1422
Ammonia purifier. Anhydrous	R. G. Sneath	524,567	Aug. 14	1036	255	68	868
Ammonia. Purifying	E. Solvay	518,428	Apr. 17	1725	430	67	348
Ammonia-still	A. Ellis	516,154	Mar. 6	674	158	66	1579
Ammonium bichromate. Making	E. A. Starke	527,563	Oct. 16	1456	.....	69	299
Ammunition-package	F. M. Garland	513,567	Jan. 30	3076	756	66	714
Anchor	D. Clark	520,177	May 22	2181	531	67	985
Anchor	H. A. and H. A. House, Jr	527,061	Oct. 9	636	154	69	134
Anchor	D. McDonald	511,788	Jan. 2	72	18	66	16
Anchor-box	H. A. Goetz	517,186	Mar. 27	2448	576	66	1960
Anchor. Folding	F. Joyner	531,315	Dec. 25	2191	524	69	1660
Anchor or supporting plate	J. Pirkel	526,410	Sept. 25	1924	457	68	1543
Anchor or supporting plate	J. Pirkel	526,411	Sept. 25	1925	458	68	1543
Anchor. Vessel	R. Zertuche	513,855	Jan. 30	3540	872	66	802
Anchors. Means for raising	H. A. and H. A. House, Jr	527,060	Oct. 9	635	154	69	134
Andiron	J. E. Grogan	525,204	Aug. 28	2144	523	68	1096
Animal gun-trap	G. E. Landis	520,164	May 22	2158	526	67	981
Animal-liberating device	C. C. Partridge	519,201	May 1	467	114	67	627
Animal-releasing device	J. S. Edmonds	520,395	May 22	2541	614	67	1054
Animal-releasing device	H. Larsen	530,487	Dec. 4	731	179	69	1348
Animal-securing device	J. W. Ziellenbach	528,840	Nov. 6	588	139	69	753
Animal-shears	W. Bell, J. W. Broomhead, and W. A. Jones	518,204	Apr. 10	1327	331	67	259
Animal-shears	T. O. Bennett	514,536	Feb. 13	934	236	66	1047
Animal-shears	O. M. Palmer	520,331	May 22	2433	592	67	1033
Animal-shears	J. K. Priest	514,273	Feb. 6	511	126	66	949
Animal-trap	F. J. Bragunier	518,483	Apr. 17	1815	449	67	364
Animal-trap	C. L. Brown	527,044	Oct. 9	614	148	69	130
Animal-trap	M. Burton and L. G. Beers	530,158	Dec. 4	137	36	69	1240
Animal-trap	J. W. Collins	524,415	Aug. 14	794	194	68	823
Animal-trap	T. Donlon	518,024	Apr. 10	1013	255	67	203
Animal-trap	G. A. Dumbeck	525,141	Aug. 28	2042	499	68	1079
Animal-trap	C. Franke	514,068	Feb. 6	143	35	66	881
Animal-trap	F. D. Hay	518,841	Apr. 24	2427	602	67	426

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Animal-trap	W. C. Hooker	523,671	Nov. 6	269	66	69	694
Animal-trap	A. J. Knapp	522,602	July 10	731	186	68	159
Animal-trap	D. W. Leedy	531,544	Dec. 25	2590	620	69	1736
Animal-trap	S. L. Loomis and A. M. Harris	521,378	June 12	1118	264	67	1416
Animal-trap	C. R. Mead	529,129	Nov. 13	1087	262	69	864
Animal-trap	M. B. Morris	522,165	June 26	2511	603	67	1707
Animal-trap	S. D. Morton	524,425	Aug. 14	808	197	68	826
Animal-trap	C. J. Roberts and J. W. Owen	520,804	June 5	80	18	67	1212
Animal-trap	J. Ross	526,582	Sept. 25	2186	522	68	1591
Animal-trap	R. Scheibel	530,723	Dec. 11	1152	279	69	1439
Animal-trap	V. J. Scherb	531,571	Dec. 25	2633	631	69	1745
Animal-trap	C. A. Snow	526,587	Sept. 25	2195	524 525	68	1592
Animal-trap	N. J. Tanner	515,263	Feb. 20	2115	525	66	1282
Animal-trap	C. B. Trumble	524,228	Aug. 7	442	104	38	742
Annealing and hardening steel rods or wire	C. W. Bildt	517,020	Mar. 27	2150	509	66	1903
Annealing apparatus	C. W. Bildt	515,813	Mar. 6	137	34	66	1478
Annealing-box	W. H. White	527,642	Oct. 16	1568	384	69	323
Annunciating apparatus. Electric	H. E. Walter	520,127	May 22	2072	505 506 507 508	67	966
Annunciator	M. Garl	513,775	Jan. 30	3412	842	66	775
Annunciator	C. A. McCordy	516,708	Mar. 20	1622	386	66	1786
Annunciator	J. H. McEvoy	513,592	Jan. 30	3111	765	66	721
Annunciator	F. W. Ross	513,956	Jan. 30	3689	907	66	831
Annunciator	T. J. Thompson	521,144	June 5	694	162	67	1321
Annunciator	P. Weber	524,098	Aug. 7	216	50	68	701
Annunciator and spring-jack. Combined	H. M. Fisk	521,461	June 19	1278	297	67	1461
Annunciator. Automatic set-back	H. C. Thomson and G. J. Galbraith	529,144	Nov. 13	1115	270	69	869
Annunciator. Electric	I. E. Rickey	514,686	Feb. 13	1186	296	66	1094
Annunciator. Electric	H. C. Thomson	525,874	Sept. 11	982	220	68	1342
Annunciator. Electrical	R. L. Hunter	518,037	Apr. 10	1030	260 261	67	207
Annunciator. Electrical	F. W. Ross	521,046	June 5	526	124	67	1292
Annunciator. Electrical	C. F. Scattergood	514,501	Feb. 13	881	224	66	1037
Annunciator. Electrical	N. M. Watson	514,975	Feb. 20	1652	413 414	66	1197
Annunciator-signal	I. H. Farnham	527,839	Oct. 23	1909	459	69	399
Annunciator system	A. L. Vogt	513,352	Jan. 23	2091	653	66	607
Ant-trap	W. B. Carter	528,921	Nov. 13	748	175	69	803
Antifriction-roller	F. H. Richards	519,591	May 8	1182	285	67	775
Antirattler and shaft-support. Combined	E. C. Hall	520,327	Nov. 13	1437	346	69	928
Antiroofer	H. Lahann	516,866	Mar. 20	1879	444	66	1835
Antirust-ware	D. M. Wells and A. Q. Allis	526,357	Sept. 18	1802	426	68	1507
Antispattering-guard	C. Swayze	524,795	Aug. 21	1416	349	68	951
Anvil. Jeweler's	O. H. Lutz	521,802	June 21	1871	448	67	1587
Anvil vise attachment	A. F. Reed	520,011	May 15	1867	457	67	913
Apartment-house	M. L. Ungrich	531,141	Dec. 18	1860	441 442	69	1584
Apothecary's graduate	T. E. Ogram	524,766	Aug. 21	1370	333	68	942
Apparatus for supporting children	J. Krant	520,929	June 5	334	81	67	1257
Apparel hanger. Wearing	G. Buch	517,353	Mar. 27	2670	626	66	2003
Apples, pears, &c. Machine for pulping	C. J. Ollagnier	531,058	Dec. 18	1707	606	69	1556
Arbor-press	J. H. Sheridan	527,731	Oct. 16	1733	418	69	350
Arc-light circuits. Regulator for continuous-current.	D. Higham	515,473	Feb. 27	2477	613	66	1362
Arc-light hanger-board	D. J. Cartwright	530,882	Dec. 11	1401	333 334	69	1485
Arc-rupturing device	G. T. Voorhees	523,697	July 31	2647	656	68	555
Arch	W. O'Brien	519,340	May 8	735	181	67	694
Arch support, water purifier and heater	G. W. Collin	514,349	Feb. 6	634	162	66	972
Architectural decorative material and making same	L. W. Seavey	511,971	Jan. 2	410	95	66	78
Arm for firing fulminated sticks	J. F. Hardesty and R. A. Sale	518,601	Apr. 24	2012	500	67	414
Arm-rest for writing purposes. Movable	J. W. Shea	520,711	May 29	3083	745	67	1169
Arm-rest. Self-adjusting	W. A. Kirby	525,766	Sept. 11	774	179	68	1305
Arms and hammers. Shifting means for cocking	F. A. Hollenbeck	524,145	Aug. 7	306	72	68	718
Armature	E. Egger and F. A. Wessel	518,312	Apr. 17	1510	377	67	308
Armature-bar and making same	G. Weber and C. W. Marcle	523,027	July 17	1477	367	68	310
Armature-coils. Former for winding	H. L. Kirker and W. Chambers	520,143	May 22	2120	517	67	974
Armature connection for dynamos	O. Dufault	514,817	Feb. 13	1400	352	66	1136
Armature-core	J. J. Wood	529,437	Nov. 20	1661	395	69	988
Armature. Electric-machine	W. Fritsche	515,467	Feb. 27	2466	610 611	66	1360
Armature. Electric-motor	H. P. Brown	518,562	Apr. 17	1948	431	67	387
Armature for dynamo-electric machines	L. Bell	516,794	Mar. 20	1757	414 415 416	66	1810
Armature for dynamo-electric machines	R. Eickemeyer	525,698	Sept. 11	654	152 153 154	68	1284
Armature for dynamo-electric machines	H. F. T. Erben	520,773	June 5	20	5	67	1200
Armature for dynamo-electric machines	H. F. Parshall	523,776	July 31	2788	692	68	581
Armature for dynamo-electric machines	H. G. Reist	523,685	July 31	2625	652 653	68	552
Armature for dynamo-electric machines	E. W. Rice, Jr.	516,837	Mar. 20	1832	433	66	1826
Armature for dynamo-electric machines	E. W. Rice, Jr.	521,671	June 19	1633	383	67	1526
Armature for dynamo-electric machines	E. Thomson	518,290	Apr. 17	1474	368	67	302
Armature for dynamo-electric machines	M. Waddell and J. B. Entz	516,170	Mar. 6	701	165	66	1584
Armature for dynamo-electric machines or motors	T. H. Hicks	518,756	Apr. 24	2295	570	67	463
Armature for dynamo-electric machines or motors	W. B. Sayers	516,553	Mar. 13	1354	322 323	66	1721
Armature for dynamo-electric machines and making same	T. H. Hicks	528,204	Oct. 30	2582	624	69	535
Armature for induction-motors	L. Bell	516,795	Mar. 20	1759	415	66	1810
Armature. Motor	J. C. Henry	516,807	Mar. 20	1776	419	66	1814

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Armature-winding	E. Thomson	516,848	Mar. 20	1848	438	66	1829
Armatures and field-magnets and making same. Con- ductor-coil for	E. W. Alexander and H. Groszith	529,992	Nov. 27	2616	627	69	1175
Armatures in dynamo machines. Winding for drum- Armatures. Means for ventilating	R. Eickmeyer	525,697	Sept. 11	652	152	68	1284
Armor-plate	T. C. Coykendall	523,161	July 17	1706	429	68	353
Armor-plate. Manufacture of	P. R. D. D'Humy	530,024	Nov. 27	2674	641	69	1186
Armor-plates. Apparatus for use in chilling	A. A. Ackerman	518,908	Apr. 24	2546	629	67	511
Armor-plates. Cementing	T. J. Tresidder	513,843	Jan. 30	3517	866	66	797
Armor-plates. Manufacture of	H. Schneider	515,505	Feb. 27	2521	624	66	1370
Artillery. Carriage or mounting for	T. J. Tresidder	529,050	Nov. 13	957	226	69	840
Ash-ejector	H. Jakobsson	531,417	Dec. 25	2362	561	69	1693
Ash-screener	F. E. Kirby	522,119	June 26	2428	583	67	1690
Asphalt, &c., from petroleum. Manufacture of	C. Eberle	519,246	May 1	557	135	67	645
Asphalt heating and mixing machine	F. X. Byerley	521,130	Aug. 7	279	65	68	713
Asphalt. Preparing and utilizing rock	R. Butcher	520,560	May 29	2820	681	67	1121
Asphalt. Refining	W. A. Adams	528,481	Nov. 6	589	69	753	
Asphalt. Refining	R. D. Upham	512,494	Jan. 9	1289	309	66	255
Asphalt rock. Machine for crushing and grinding	W. S. Wilkinson	512,348	Jan. 9	1019	249	66	204
Asphaltic composition powder for roadways. Pro- ducing	J. H. Tabler	517,311	Mar. 27	2645	621	66	1998
Asphaltum or bitumen disintegrator	C. H. Slicer	514,045	Feb. 6	110	66	874	
Asphaltum pipe. Machine for the manufacture of	F. Walker	527,636	Oct. 16	1576	381	69	321
Atomizer	J. and D. J. Shultis	522,946	July 10	1322	329	68	266
Atomizer	W. Eggers	519,498	May 8	1010	244	67	743
Atomizer	F. B. Giesler	526,525	Sept. 25	2105	502	68	1575
Atomizer	M. Hanford	515,491	Feb. 27	2502	619	66	1367
Atomizer	W. Hegershoff	514,190	Feb. 6	359	86	66	921
Atomizer	H. C. Rees	526,741	Oct. 2	122	29	69	24
Atomizer	J. H. Scharling	515,504	Feb. 2	2519	624	66	1370
Atomizer	A. M. Shurtleff	524,958	Aug. 21	1683	413	68	997
Auger-bit	E. C. Phillips	529,832	Nov. 27	2332	553	69	1119
Auger. Double-tenon	C. Blatchley	528,527	Nov. 6	10	4	69	648
Auger. Earth	F. L. Ream and C. F. Herbolzheimer	519,642	May 8	1275	306	67	790
Auger for boring and reaming	L. F. C. Rich and J. H. Hull	529,049	Nov. 13	954	226	69	840
Auger-handle	D. W. Meacham	512,384	Jan. 9	1089	264	66	218
Auger. Hollow	J. Swan	520,502	May 29	2725	660	67	1102
Auger. Post-hole	A. De Witt	512,540	Jan. 9	1350	322	66	267
Auger. Post-hole	F. W. Mosure and I. Warner	536,454	Sept. 25	2004	476	68	1557
Auger. Post-hole	G. P. Smith and J. B. Bruner	517,892	Apr. 10	775	194	67	161
Auger. Well	E. E. Seniff	528,695	Nov. 6	312	76	69	702
Autographic register	W. Assheton	526,003	Sept. 1	1186	271	68	1379
Autographic register	H. C. Biette	521,081	June 5	585	137	67	1302
Autographic register	J. W. Dick	525,449	Sept. 4	227	56	68	1193
Autographic register	W. L. Egry	518,230	Apr. 17	1374	344	67	284
Autographic register	J. A. Marsh	520,022	May 15	1887	461	67	917
Autographic register	O. C. Reeves	525,514	Sept. 4	31	79, 80	68	1211
Autographic register	S. Shoup	524,000	Aug. 7	57	13	68	672
Autoharp	S. A. Salmon	511,970	Jan. 2	408	95	66	78
Automatic brake	W. H. Cottrell	514,644	Feb. 13	1116	279	66	1081
Automatic brake	W. P. Wigley	525,173	Aug. 28	2106	512	68	1089
Automatic gate	W. Lagauassa	523,985	Aug. 7	28	7	68	668
Automatic lubricator	J. T. Slater and M. T. Barrett	512,402	Jan. 9	1118	270	66	923
Automatic sprinkler	T. Holmes	512,030	Jan. 2	503	119	66	96
Automatic sprinkler	R. W. Newton	514,161	Feb. 6	306	73	66	911
Automatic sprinkler	R. W. Newton	514,162	Feb. 6	308	73	66	911
Automatic sprinkler	R. W. Newton	514,163	Feb. 6	309	74	66	911
Automatic switch	W. H. Southworth	517,535	Apr. 3	291	68	67	57
Auxiliary heater	E. Sheppard	518,864	Apr. 24	2460	609	67	493
Awning	E. Fauteux	530,098	Dec. 4	36	10	69	1222
Awning	E. V. Gaudin	521,712	Aug. 21	1282	314	68	926
Awning	C. Leclercq	517,346	Mar. 27	2703	635	66	2010
Awning	C. A. Schoeneck	512,480	Jan. 9	1283	308	66	254
Awning and fire and burglar proof shutter. Com- bined	W. Lash	529,737	Nov. 27	2161	515	69	1088
Awning attachment	R. Bowles	520,556	May 29	2813	679	67	1119
Awning-elevating attachment	F. R. Ashley	512,087	Jan. 2	598	144	66	114
Awning for vessels. Portable	M. Enright	524,137	Aug. 7	292	68	68	715
Awning frame. Door	J. Zervas	522,817	July 10	1116	277	68	226
Awning-lifter	O. H. Thompson	519,780	May 15	1494	362	67	844
Awning. Window	D. Jones	523,746	July 31	2740	680	68	572
Awning-worker	J. A. Gillin	523,519	July 24	2346	589	68	484
Ax	J. P. Kelly	520,738	May 29	3122	756	67	1175
Ax-helve	A. French	511,768	Jan. 2	41	11	66	11
Ax-polls. Machine for making	E. Rogers	531,221	Dec. 18	2014	478	69	1612
Axle	J. E. Fisher	512,246	Jan. 2	852	206	66	161
Axle	G. B. Hobbs	514,679	Feb. 13	1179	294	66	1093
Axle. Ball-bearing	J. Bell	514,434	Feb. 13	756	194	66	1013
Axle-box	R. Hyde	520,314	May 22	2406	585	67	1027
Axle-box	T. Lo Casto	519,403	May 8	852	206	67	715
Axle-box	H. Schubert	512,752	Jan. 16	1707	408	66	350
Axle-box	T. C. Van Wyck	520,907	June 5	279	67	67	1249
Axle box. Car	J. F. Gallagher	524,200	Aug. 7	400	95	68	734
Axle box. Car	G. W. Griffiths	518,524	Apr. 17	1686	467	67	376
Axle-box dust-guard	T. H. Symington	518,288	Apr. 17	1469	368	67	301
Axle-box dust-guard. Car	N. H. Davis	519,152	May 1	379	91	67	611
Axle-box dust-guard. Car	W. H. Wright	518,385	Apr. 17	1657	409	67	335
Axle-box for wheels	F. C. W. Rorer	524,791	Aug. 21	1406	343	68	949

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Axle-box lid	N. H. Davis	321,207	June 12	608	190	67	1357
Axle-box lid	P. N. French	522,050	June 26	2318	557	67	1670
Axle-box lid. Car.....	N. H. Davis	521,231	June 12	851	199	67	1364
Axle-box lid. Car.....	N. H. Davis	521,232	June 12	832	199	67	1365
Axle-box. Locomotive.....	M. N. Forney	527,960	Oct. 23	2150	517	69	443
Axle-box lubricator	J. S. Patten	514,379	Feb. 6	677	171 172	66	980
Axle-box pedestal. Car.....	S. J. Van Stavoren	527,087	Oct. 9	669	163	69	140
Axle-box pedestal. Car.....	S. J. Van Stavoren	527,088	Oct. 9	670	164	69	141
Axle-box pedestal. Car.....	S. J. Van Stavoren	527,089	Oct. 9	671	164	69	141
Axle-box pedestal. Car.....	S. J. Van Stavoren	527,090	Oct. 9	672	164	69	141
Axle-box pedestal. Car.....	S. J. Van Stavoren	527,091	Oct. 9	673	164 165	69	141
Axle-box. Railway-car	U. S. Landers	518,723	Apr. 24	2240	557	67	453
Axle-box. Roller-bearing	J. D. Mattison	527,121	Oct. 9	727	178 179	69	150
Axle-boxes. Floor for car.....	A. Lichtenhein	529,926	Nov. 27	2476	596	69	1147
Axle. Car	R. Bettermann	531,405	Dec. 25	2342	558	69	1689
Axle. Carriage	J. Ledoux	512,197	Jan. 2	777	189	66	147
Axle. Carriage	C. H. Palmer	519,732	May 15	1420	343	67	831
Axle-cutting machine	C. H. Woodall	512,426	Jan. 9	1166	283	66	232
Axle dust-guard and oil-saver. Car.....	W. A. Warman	512,926	Jan. 16	2031	481	66	410
Axle-lubricator	J. Olson	518,157	Apr. 10	1238	308	67	240
Axle-lubricator	G. W. Pero	520,450	May 29	2629	636	67	1086
Axle-lubricator	F. P. White	521,578	June 19	1478	346	67	1497
Axle-lubricator. Car.....	J. E. Gill	524,318	Aug. 14	598	144	68	789
Axle-lubricator. Car.....	D. McCarthy	521,807	June 26	1876	449	67	1578
Axle-lubricator. Car.....	W. H. Wright	518,384	Apr. 17	1656	409	67	335
Axle-lubricator. Carriage.....	F. B. Brock	514,905	Feb. 20	1550	388	66	1178
Axle-making machine	W. Fletcher, Jr.	514,830	Feb. 13	1404	354	66	1137
Axle-making machine	C. Mercader	524,092	Aug. 7	209	48	68	699
Axle-pile	J. B. Bangh	524,294	Aug. 7	552	131	68	760
Axle spindle. Vehicle.....	W. M. Barnes	523,506	July 24	2321	584	68	479
Axle. Sully-plow	W. B. Morris	520,934	June 5	341	63	67	1259
Axle. Vehicle	C. Burns	525,257	Aug. 28	2221	541	68	1110
Axle. Vehicle	W. H. Bustin	522,402	July 3	396	101	68	78
Axle. Vehicle	A. P. Craig	512,867	Jan. 16	1933	457	66	393
Axle. Vehicle	W. L. Massengale	524,903	Aug. 21	1588	369	68	921
Axle. Vehicle	J. Miller	528,482	Oct. 30	3065	743	69	622
Axle. Vehicle	G. H. Westinghouse	517,203	Mar. 27	2472	582	66	1964
Axle washer. Vehicle.....	M. D. Peckham and C. E. Swan	529,831	Nov. 27	2320	553	69	1118
Axles. Antifriction device for	A. M. Crooker and R. Weinhold	520,298	Sept. 18	1697	400	68	1487
Baby-carrier	S. Kehlenbeck	522,018	June 26	2269	544	67	1600
Baby-jumper	J. A. W. Seaberg	519,593	May 8	1186	286	67	775
Baby-walker	N. P. Bradish	529,359	Nov. 20	1493	359	69	959
Baby-walker	N. P. Bradish and J. H. Wilcox	517,403	Mar. 27	2832	663	66	2035
Back-band hook	W. M. Hawkins	520,162	May 22	2155	525	67	920
Back-brace	J. Gallegos	530,038	Nov. 27	2697	648	69	1190
Backwater trap and valve	S. W. Hallock	526,649	Sept. 25	2302	551	68	1612
Badge	J. R. Lee	513,793	Jan. 30	3436	848	66	780
Badge	B. S. Whitehead	521,198	June 12	793	186	67	1354
Bag:							
See Bicycle-bag. Nose-b'g.							
Feed-bag. Packing-bag.							
Game-bag. Paper bag.							
Hand-bag. Striking-bag.							
Mail-bag. Traveling-bag.							
Moth-proof bag. Water-bag.							
Bag	J. N. Bull	529,478	Nov. 20	1732	413	69	1001
Bag	W. H. Field	526,566	Sept. 25	2167	517	68	1587
Bag	J. W. Hill	513,323	Jan. 23	2644	641	66	599
Bag and twine holder	R. J. Morton	519,001	May 1	103	25	67	555
Bag-closure	J. Whittemore	514,530	Feb. 13	923	234	66	1044
Bag-fastener	H. Engel	520,107	May 22	2038	497	67	960
Bag-fastener	A. Nixon	527,714	Oct. 16	1700	409	69	344
Bag for containing granular material	F. O. Matthiessen and B. Arkell	527,558	Oct. 16	1449	353	69	298
Bag for transporting money, &c.	J. A. Carlaw and M. J. Teedy	513,756	Jan. 30	3387	835	66	771
Bag-frame	F. W. Heilmann	522,832	July 10	1138	282	68	230
Bag-holder	E. Attaway	523,097	July 17	1574	395	68	329
Bag-holder	W. D. Harmon and E. C. Kelouge	524,041	Aug. 7	119	26	68	684
Bag-holder. Folding	R. Matier	514,481	Feb. 13	846	216	66	1030
Bag-lock	J. B. Bundren and J. W. Hedges	530,011	Nov. 27	2652	636 637	69	1182
Bag-lock	W. Roemer	524,811	Aug. 21	1440	352 353	68	955
Bag-leck	F. E. Windsor	519,598	May 8	1197	288 289	67	777
Bag-making machine	W. H. Kerr	526,107	Sept. 18	1368	319	68	1425
Bag or fodder tie	G. C. Ditzler	518,879	Apr. 24	2488	617	67	499
Bag or purse frame	L. B. Prabar	515,166	Feb. 20	1952	487	66	1252
Bag-tyer. Automatic	H. H. Nelson	515,155	Feb. 20	1937	484	66	1349
Bags. Making	R. E. Hunt	515,121	Feb. 20	1876	471	66	1237
Bagasse-burner	E. A. Koch	527,001	Oct. 2	539	132	69	102
Bagasse-furnace	W. W. Sutcliffe	517,497	Apr. 3	137	30	67	28
Bagatelle-table	W. R. Fearn	519,842	May 15	1593	389	67	863
Bail. Basket	O. Konigslow	513,512	Jan. 30	2970	730	66	695
Bail for pots, pails, &c.	J. W. Barton and G. L. Nichols	511,925	Jan. 2	340	79	66	65
Bails. Machine for forming wire	H. S. Reynolds	520,864	June 5	200	45	67	1233
Bailing device	J. Fatkin	528,085	Oct. 23	2375	573	69	483
Bait and fishing-tackle box. Combined	E. T. Breithaupt	515,899	Mar. 6	264	61	66	1503
Bait-bucket	O. M. Muncaster	521,244	June 12	871	206	67	1368
Bart-receptac.	W. B. Gilmore	531,112	Dec. 18	1808	430	69	1574
Bake-pan	C. J. Rundberg	526,747	Oct. 2	129	31	69	26

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Baking-pan	G. P. Rockwell	511,801	Jan. 2	86	22	66	19
Baking-powder can and measure	H. R. Brown	523,195	July 17	1777	446	68	365
Balance. Spring	A. Shepard	519,353	May 8	771	188	67	700
Balancing rotating parts. Device for	G. W. Rymes	525,799	Sept. 11	833	189	68	1316
Bale-box clamp	T. M. Wallace	528,047	Oct. 23	2305	556	69	470
Bale-covering	M. A. Heath	518,949	May 1	22	6	67	940
Bale-covering	C. E. Mallett	518,820	Apr. 24	2401	593	67	482
Bale or bundle tie	J. W. Carver	516,185	Mar. 13	733	172	66	1605
Bale-tie	W. H. Singleton	530,607	Dec. 11	951	234	69	1405
Bale-tie machine	W. A. Laidlaw	512,617	Jan. 9	1466	334	66	288
Bale-tie twister and stretcher	D. D. Tierney	516,712	Mar. 20	1630	388	66	1788
Bale-wires, &c. Device for untying	O. C. Frame	518,839	Apr. 24	2425	601	67	486
Baling machine. Cotton	C. L. Bessonet	530,000	Nov. 27	2627	631	69	1177
Baling machine. Cotton	H. E. Smith and B. A. Dare	529,968	Nov. 27	2557	616	69	1161
Baling machines. Core-holding mechanism for cotton	H. E. Smith and B. A. Dare	529,967	Nov. 27	2553	615	69	1160
Baling-press	A. E. Anderson	520,762	June 5	1	1	67	1197
Baling-press	G. C. and C. A. Blakely	513,553	Jan. 30	3048	751	66	709
Baling-press	H. Clark and P. D. Myers	515,748	Mar. 6	22	7	66	1459
Baling-press	A. L. Cox	531,163	Dec. 18	1908	455	69	1593
Baling-press	G. W. and G. A. Davis	525,841	Sept. 11	923	206	68	1331
Baling-press	E. E. Fuller	512,182	Jan. 2	751	183	66	143
Baling-press	R. H. Grav	525,203	Aug. 28	2143	523	68	1095
Baling-press	J. Heaston	512,294	Jan. 9	933	227	66	189
Baling-press	H. R. Jernigan	521,118	June 5	650	153	67	1314
Baling-press	J. W. Martin	514,950	Feb. 20	1610	404	66	1190
Baling-press	A. C. Miller	524,597	Aug. 14	1076	266	68	876
Baling-press	D. J. Murphy and J. Richardson	517,930	Apr. 10	841	211	67	176
Baling-press	M. C. Nixon	515,786	Mar. 6	98	23	66	1472
Baling-press	M. C. Nixon	523,681	July 31	2619	651	68	551
Baling-press	F. L. Robison	529,083	Nov. 13	1014	244	69	850
Baling-press	G. Schubert	517,936	Apr. 10	850	214	67	177
Baling-press	H. E. Smith	529,969	Nov. 27	2561	617	69	1162
Baling-press	P. C. Southwick	515,373	Feb. 27	2315	574	66	1332
Baling-press	J. A. Spencer	526,060	Sept. 18	1231	296	68	1410
Baling-press	C. E. Whitman	531,240	Dec. 18	2048	488	69	1617
Baling-press	A. Wickey	512,782	Jan. 16	1779	422	66	364
Baling-press	A. Wickey	526,883	Oct. 2	354	87	69	67
Baling-press attachment	J. J. Hiser	522,208	July 3	44	11	68	11
Baling-press dog or stop device	A. Schulze	521,511	June 19	1367	318	67	1477
Baling-press feed attachment	J. S. Tuttle	521,193	June 12	782	123	67	1352
Baling-press feeder	D. J. Overholtzer	516,727	Mar. 20	1663	394	66	1793
Baling trees. Machine for	H. O. Thomas	511,917	Jan. 2	323	76	66	62
Ball:							
See Billiard-ball. Tenpin-ball.							
Bowling-ball. Time-ball.							
Foot-ball.							
Ball	J. B. Dickey	513,560	Jan. 30	3067	754	66	712
Ball-and-socket joint	M. Walker	522,391	July 3	382	97	68	76
Ball-and-socket joint for use in mills	W. N. Hartshorn	527,282	Oct. 9	995	241	69	199
Ball-making machine	M. B. Mishler	528,886	Nov. 6	663	159	69	767
Balloons. Parachute-sail for	T. Schneider-Preiswerk	512,450	Jan. 9	1214	294	66	241
Ballot-box	S. O. Brown	511,994	Jan. 2	442	104	66	84
Ballot-box	W. M. Demott	529,608	Nov. 20	1953	464	69	1041
Ballot-box	H. H. Niebur	518,351	Apr. 17	1592	394	67	324
Ballot-box. Registering	L. M. Foster	520,482	May 29	2688	651	67	1096
Ballot-box. Registering	L. M. Foster	530,034	Nov. 27	2689	646	69	1129
Ballot-box. Registering and canceling	E. K. Tolman	528,191	Oct. 30	2539	620	69	532
Ballot-folder	I. W. Litchfield	514,013	Feb. 6	60	15	66	866
Band-cutter	W. J. Hopper	521,115	June 5	645	152	67	1313
Band-cutter	I. Hovez	512,965	Jan. 16	2096	497	66	422
Band-cutter	J. O'Connell	513,366	Jan. 23	2713	639	66	611
Band-cutter and feeder	G. Anderson	513,698	Jan. 30	3296	812	66	754
Band-cutter and feeder	V. C. Bailey	526,287	Sept. 18	1669	394	68	1421
Band-cutter and feeder	C. W. Bond	529,890	Nov. 27	2417	580	69	1137
Band-cutter and feeder	I. A. Crisp and J. A. Stevenson	528,861	Nov. 6	627	149	69	761
Band-cutter and feeder	E. Hesse	513,682	Jan. 30	3263	802	66	748
Baud-cutter and feeder	C. H. Hill	526,351	Sept. 18	1781	422	68	1504
Band-cutter and feeder	G. D. Lamm and W. Sicard	517,754	Apr. 3	571	140	67	111
Band-cutter and feeder	F. F. Landis	531,541	Dec. 25	2584	618	69	1735
Band-cutter and feeder	P. Linscheid	519,722	May 15	1403	339	67	827
Band-cutter and feeder	H. D. May	529,397	Nov. 20	1580	376	69	974
Band-cutter and feeder	J. W. Regier	523,997	Aug. 7	50	11	68	671
Band-cutter and feeder	J. O. Reiley and H. P. Myers	513,143	Jan. 23	2360	570	66	543
Band-cutter and feeder	C. von Riesen	522,230	July 3	94	22	68	18
Band-cutter and feeder	E. Turnell	519,279	May 1	607	147	67	654
Band-cutter and feeder	W. S. Van Wechel and D. L. Wynia	519,211	May 1	491	119	67	632
Band-cutter and feeder	E. J. Vraalstad	521,195	June 12	785	184	67	1352
Band-cutter and feeder. Combined	H. Paul	518,159	Apr. 10	1231	309	67	240

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette..	
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Band-cutter. Automatic	S. B. Hendricks	511,841	Jan. 2	150	38	66	31
Band cutter. Grain.....	G. M. Walker and A. O. Calhoun	515,066	Feb. 20	1793	453	66	1222
Band-fastening	E. C. Tecktonius	516,690	Mar. 20	1593	380	66	1782
Band-machine	J. Welker	516,141	Mar. 6	653	152	66	1575
Band-tightener	E. A. Oliver	519,507	May 8	1023	247	67	745
Bandage	F. W. Pulford	512,324	Jan. 9	980	240	66	198
Bandage. Ear.....	A. Thamm	516,135	Mar. 6	639	150	66	1572
Bandage for varicose veins	A. Schütz and A. Landerer	519,894	May 15	1681	410	67	880
Bandage-machine	W. N. Cráhtree	527,365	Oct. 9	1130	276	69	224
Bandage. Suspensory	J. Teuscher, Jr.	531,232	Dec. 18	2037	485	69	1615
Bandolier	J. Bertrand	514,808	Feb. 13	1385	348	66	1133
Banjo	F. H. Andres	529,514	Nov. 20	1802	429	69	1013
Banjo	J. F. Barrows	517,913	Apr. 10	814	205	67	171
Banjo	F. E. Cole	513,761	Jan. 30	3393	836	66	771
Banjo	C. E. Dobson	514,311	Feb. 6	584	146	66	963
Banjo	R. Kuenstler	523,042	July 17	1494	372	68	313
Banjo	H. C. Middlebrooke	519,409	May 8	861	209	67	717
Banjo attachment	W. H. Needham	524,728	Aug. 21	1306	320	68	930
Banjo-bridge	A. D. Grover	530,483	Dec. 4	724	177	69	1347
Banjo-mute	H. E. Le Valley	520,439	May 29	2614	633	67	1083
Banjo mute or damper	J. D. Harper	526,899	Oct. 2	356	96	69	72
Banjo or violin tail-piece	R. H. Small	517,493	Apr. 3	133	29	67	27
Banjo-tail piece	E. D. Son	516,125	Mar. 6	627	147	66	1570
Bank or money-changer. Automatic	H. F. Slocum	520,013	May 15	1870	457	67	914
Bank. Pocket savings	N. A. Shigon	517,175	Mar. 27	2425	570	66	1955
Bank. Registering savings	C. A. Richards	527,290	Oct. 9	1009	245	69	201
Bar:							
See Car draw-bar. Matrix-bar.							
Furnace grate-bar. Mowing-machine cutter-bar.							
Grate-bar. Pivoted tooth-bar.							
Locomotive draw-bar.							
Bar-fixture	M. Bensinger	523,784	July 31	2800	695	68	583
Bars or rods. Machine for drawing	P. M. Haas and C. S. Dutton	520,592	May 29	2874	685	67	1131
Bars, rails, &c. Machine for straightening	H. Wick, Jr.	523,497	July 24	2303	580	68	475
Barber's chair	W. G. Hullhorst	524,853	Aug. 21	1518	371	68	968
Barber's shears	E. Tolman, Jr.	517,969	Apr. 10	916	229	67	188
Barge, Freight.....	A. K. McRae	527,215	Oct. 9	872	212	69	178
Barium. Purifying native sulfate of	H. F. D. Schwahn	514,040	Feb. 6	104		66	874
Bark, &c. Machine for removing	C. E. V. Folin	528,664	Nov. 6	260	64	69	692
Bark-rossing machine	F. H. and A. E. Stearns	515,537	Feb. 27	2582	639	66	1382
Barking machines. Automatic feed for wood	W. Hadley	528,873	Nov. 6	647	154	69	764
Barometer. Aneroid	D. Logan	525,273	Aug. 28	2247	548	68	1116
Barometer. Compound tri-liquid	O. H. Woodworth	517,089	Mar. 27	2280	538	66	1927
Barrack	W. A. McHarry	522,120	June 26	2429	533	67	1691
Barrel	W. H. Cadwell	526,069	Sept. 18	1302	301	68	1413
Barrel	A. C. Calhoun	526,684	Oct. 2	22	6	69	7
Barrel	S. C. Williams	512,783	Jan. 16	1780	423	66	364
Barrel by-recoil of first. Inertia-piece, releasing second	A. Burgess	520,550	May 29	2817	680	67	1120
Barrel-cover	J. O. Cooper and A. S. Jacoby	526,687	Oct. 2	25	7	69	7
Barrel-filler	G. R. Babbitt	517,136	Mar. 27	2354	555	66	1941
Barrel-head	W. C. Blundell	521,097	June 5	617	145	67	1308
Barrel-head-turning machine	W. W. Trevor	531,400	Dec. 25	2332	556	69	1687
Barrel-heads in place. Device for securing	O. P. Gordon	528,725	Nov. 27	2141	512	69	1085
Barrel-heads, &c. Machine for packing	N. Peters and M. Mathey	524,729	Aug. 21	1307	320	68	931
Barrel-heater	J. B. and W. H. Stanhope	523,552	July 24	2391	599	68	493
Barrel-hooping machine	E. A. Delano	528,765	Nov. 6	429	103	69	724
Barrel. Knockdown	H. Ellis	527,328	Oct. 9	1069	258	69	212
Barrel. Knockdown	G. R. Lund	521,290	June 12	957	227	67	1383
Barrel. Knockdown	J. Z. Taylor	513,840	Jan. 30	3512	865	66	797
Barrel-machine	F. G. Hoopes	524,550	Aug. 14	1012	249	68	863
Barrel-making machine	P. Little	521,319	June 12	1006	237	67	1393
Barrel-making machine	W. T. Vale and G. A. Ohl	531,283	Dec. 18	2125	509	69	1632
Barrel or cask rack	F. A. Warner	520,098	May 22	2022	494	67	958
Barrel. Packing	E. T. Mason	521,804	June 26	1873	448	67	1587
Barrel. Pickle	J. Tomlinson	531,603	Dec. 25	2688	645	69	1756
Barrel-pitching apparatus	G. Schmitt	526,504	Sept. 25	2072	493	68	1570
Barrel-pitching apparatus	G. Schmitt	526,660	Sept. 25	2322	555	68	1616
Barrel-setting-up device	J. Pleukharp and W. K. Liggett	513,651	Jan. 30	3222	791	66	739
Barrel-stand	M. A. Lockman	514,945	Feb. 20	1604	403	66	1189
Barrel-trussing machine	J. B. Stanhope	514,738	Feb. 13	1281	319	66	1112
Barrel-washer	F. E. Anderson	517,091	Mar. 27	2285	538	66	1928
Barrel-washer	A. and B. Danner	524,461	Aug. 14	863	211	68	837
Barrel-washer	M. Diehl	514,591	Feb. 13	1033	260	66	1065
Barrel-washer	H. J. Ferguson	530,515	Dec. 11	793	196	69	1376
Barrel-washer	C. L. Kline	530,593	Dec. 11	928	228	69	1401
Barrels, &c. Closure for	H. C. Campbell	518,052	Apr. 10	1066	260	67	211
Barrels. Device for directing hoops on	E. and B. Holmes	512,704	Jan. 16	1616	383	66	332
Barrels. Follower for brine	C. C. West	526,474	Sept. 25	2032	484	68	1561
Barrels to stocks. Detachably securing	A. Burgess	517,024	Mar. 27	2156	511	66	1904
Barrels to stocks. Detachably securing	L. L. Hepburn	518,950	May 1	23	6	67	541
Base and column. Knockdown	W. Hettterschied	526,834	Oct. 2	267	65	69	51
Basin and valve-operating mechanism therefor. Set wash	J. H. Stevens, Jr.	526,508	Sept. 25	2076	494	68	1571
Basin, bath, &c. Wash	F. Adee	523,421	July 24	2154	541	68	451

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Basin. Catch.....	C. H. Higgins	515,681	Feb. 27	2811	701	66	1422
Basin-clamp.....	J. W. Biddle	524,477	Aug. 14	886	219	68	841
Basin-clamp.....	H. Mueller	515,836	Mar. 6	166	40	66	1484
Basin plug and overflow. Combined lavatory.....	C. H. Muckenhirn	527,802	Oct. 23	1854	446	69	389
Basin-trap.....	J. Marquis	526,666	Sept. 25	2332	558	68	1618
Basin. Wash.....	J. F. Lamping	519,287	May 1	623	152	67	68
Basket. Folding.....	E. M. Hudgin	518,783	Apr. 24	2337	580	67	471
Basket. Fruit.....	J. E. Asam and P. Muhlenbeck	527,761	Oct. 23	1737	430	69	377
Basket. Fruit.....	T. Cogswell	515,072	Feb. 20	1801	435	66	1323
Basket. Fruit.....	C. Van Der Zee	520,814	June 5	106	24	67	1216
Basket. Lunch.....	A. Probola	523,491	Oct. 30	3079	746	69	625
Basket-making machine.....	E. Horton	530,048	Nov. 27	2715	562 563 209	69	1194
Basket-making machine.....	L. Palmer	516,276	Mar. 13	887	208	66	1635
Basket. Metallic.....	L. M. Cabana	515,107	Feb. 20	1848	465	66	1232
Basket. Shipping.....	I. Springer and H. Eviston	512,404	Jan. 9	1121	271	66	223
Basket. Ventilated fruit.....	C. W. Weston	518,834	Nov. 6	578	137	69	751
Basket. Waste-paper.....	E. L. Weston	518,476	Apr. 17	1809	447	67	363
Basket. Wood-veneer-made.....	C. W. Weston	528,835	Nov. 6	579	137	69	751
Basting and roasting pan.....	J. Stroud	527,232	Oct. 9	939	228	69	190
Bat. Base-ball.....	C. Jacobus	514,420	Feb. 6	732	186	66	992
Bath:							
<i>See</i> Douche-bath. Vapor face-bath.							
Electric foot-bath.							
Bath apparatus. Shower.....	H. M. Christopher	531,303	Dec. 25	2167	518	69	1655
Bath-sprinkler. Detachable.....	J. H. Stevens, Jr	519,879	May 15	1658	403	67	875
Bath-tub.....	F. J. H. Hazard	512,701	Jan. 16	1611	387	66	331
Bath-tub.....	A. G. Ward and W. C. Winfield	521,837	June 26	1923	461	67	1597
Bath-tub.....	R. M. Wilson	530,568	Dec. 11	888	219	69	1393
Bath-tub and traveling-bag. Convertible or combined.....	F. von Oheimb	530,599	Dec. 11	941	231	69	1403
Bath-tubs, tables, &c. Support or standard for frames of.....	S. S. Burr	516,562	Mar. 13	1372	326	66	1724
Bathing apparatus.....	S. S. Goldman	527,057	Oct. 9	631	153	69	133
Bathing-apparatus coupling.....	J. J. Hentze	514,321	Feb. 6	596	151	66	965
Batter-dropper.....	E. L. D. Hoyle	518,035	Apr. 10	1028	260	67	206
Batteries. Apparatus for supplying or removing storage.....	W. E. Worthen	517,134	Mar. 27	2351	554 555	66	1941
Batteries. Manufacturing active material for secondary electric.....	W. A. Boese	517,427	Apr. 3	10	-----	67	5
Batteries. Manufacturing elements or plates for secondary.....	H. F. Kirkpatrick-Picard and H. Thame	527,861	Oct. 23	1963	472	69	408
Batteries. Manufacturing plates for secondary.....	H. F. Kirkpatrick-Picard and H. Thame	530,847	Dec. 11	1344	322	69	1475
Batteries. Sectional cam for ore.....	M. I. Cortright	522,880	July 10	1194	298	68	242
Battery:							
<i>See</i> Cartridge-shell battery. Galvanic battery.							
Gravity-battery.							
Concealed battery. Primary battery.							
Dry battery. Secondary battery.							
Electric battery. Storage-battery.							
Electric mouth-battery. Thermo-electric battery.							
Electric uterine battery. Uterus-battery.							
Voltaic battery.							
Womb-battery.							
Battery.....	W. M. Stine	512,567	Jan. 9	1391	336	66	275
Battery.....	D. H. Wilson	514,979	Feb. 20	1657	415	66	1198
Battery cell. Electric.....	P. C. Burns	514,845	Feb. 13	1450	365	66	1145
Battery connection.....	W. S. Doe	530,401	Dec. 4	571	141	69	1319
Battery element. Secondary.....	S. A. Rosenthal and V. C. Doubleday	520,614	May 29	2906	702	67	1137
Battery grids of forced lead. Machine for making storage.....	W. W. Griscom	521,791	June 26	1851	441	67	1583
Battery grids or plates. Method of and apparatus for forming secondary.....	J. M. Pendleton	516,337	Mar. 13	979	232	66	1652
Battery-plate separator.....	W. L. Silvey	524,843	Aug. 21	1504	368	68	966
Battery plate. Storage.....	C. P. Elieson	519,602	May 8	1202	290	67	778
Battery plates. Forming storage.....	C. Sorley and J. K. Pumpelly	521,897	June 26	2033	490	67	1619
Battery-plates. Making.....	W. L. Silvey	523,055	July 17	1512	378	66	317
Battery plates. Making secondary.....	W. L. Silvey	512,757	Jan. 16	1734	412	66	355
Battery plates. Making secondary.....	W. L. Silvey	523,689	July 31	2035	654	68	553
Battery plates. Making stiffened connectors for secondary.....	W. L. Silvey	523,949	July 31	3108	774	68	642
Battery-switch.....	H. K. Spangenberg	530,804	Dec. 11	1277	308	69	1463
Battery switch. Secondary.....	H. Müller	516,379	Mar. 13	1063	252 253	66	1666
Battery system. Storage.....	J. T. Trumpy	519,077	May 1	238	56	67	581
Battery use. Automatic switch for storage.....	T. A. Willard	516,038	Mar. 6	501	115 116	66	1546
Beam anchor-plate.....	A. E. Krause	514,151	Feb. 6	290	70	66	908
Beam. Fireproof.....	C. A. Balph and E. P. S. Wright	527,232	Oct. 9	907	219	69	185
Beam-framing machine.....	R. H. Ireland	521,654	June 19	1604	376	67	1520
Beam, girder, post, &c. Metallic.....	A. E. Krause	522,736	July 10	972	242	68	200
Beam-straightening apparatus.....	J. F. Lundahl	523,770	July 31	2779	690	68	579
Beams. Machine for cutting sections of metallic.....	M. H. Cameron and W. Snape	615,746	Mar. 6	20	56	66	1459
Bean-picker.....	M. M. Nye	529,687	Nov. 20	2075	496	69	1064
Bean-separator.....	E. Kuapp	515,776	Mar. 6	82	20	66	1469
Bearing.....	H. Hinckley	515,336	Feb. 27	2255	559	66	1320
Bearing.....	W. J. Tripp	515,629	Feb. 27	2732	677	66	1410
Bearing. Antifriction.....	J. C. Lafrenière	512,477	Jan. 9	1262	304	66	250
Bearing. Antifriction.....	A. J. Shaw	528,617	Nov. 6	167	40, 41	69	676
Bearing. Antifriction ball.....	H. La Casse	518,321	Apr. 17	1522	3-0	67	310
Bearing. Antifriction roller.....	J. D. Mattison	530,544	Dec. 11	844	208	69	1385
Bearing. Ball.....	W. Badger	527,041	Oct. 9	609	148	69	129

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Bearing. Ball.....	P. Davies.....	526,439	Sept. 25	1975	471	68	1552
Bearing. Ball.....	S. Elliott.....	513,139	Apr. 10	1200	301	67	235
Bearing. Ball.....	J. W. Howard.....	526,013	Sept. 11	1199	275	68	1382
Bearing. Ball.....	J. H. Myers.....	521,987	June 26	2216	533	67	1651
Bearing. Ball.....	M. Wogan.....	521,399	June 12	1147	271	67	1421
Bearing for clothes-wringers.....	A. R. Sauters.....	525,722	Sept. 11	696	161	68	1292
Bearing for connecting-rods. Adjustable.....	W. and F. Brockhausen.....	519,492	May 8	1001	242	67	741
Bearing for connecting rods or links. Adjustable.....	W. and F. Brockhausen.....	522,335	July 3	274	72	68	55
Bearing for gyrating shafts for etone-breakers or other machines.....	P. W. Gates.....	525,410	Sept. 4	162	41, 42	68	1180
Bearing for gyratory shafts or other analogous mechanism.....	C. L. Carman.....	525,404	Sept. 4	153	39	68	1178
Bearing for shafts of lawn-mowers.....	E. G. Passmore.....	518,468	Apr. 17	1799	445	67	361
Bearing for wheel-boxes. Ball.....	W. S. Robinson.....	531,564	Dec. 25	2621	628	69	1743
Bearing for wheels. Roller.....	W. H. Thompson.....	515,178	Feb. 20	1972	491	66	1256
Bearing for wheels, &c. Thrust.....	J. S. Chace.....	518,393	Apr. 17	1665	411	67	337
Bearing. Lubricating.....	S. Straker.....	525,294	Aug. 28	2283	555	68	1124
Bearing. Ring-oiler.....	W. W. Carey.....	522,714	Nov. 6	333	81	69	707
Bearing. Roller.....	F. S. Church.....	522,648	July 10	814	203	68	173
Bearing. Roller.....	J. D. Mattison.....	515,006	Feb. 20	1693	426	66	1205
Bearing. Roller.....	J. D. Mattison.....	522,796	July 10	1081	267	68	230
Bearing. Roller.....	F. Mossberg.....	519,868	May 15	1639	399	67	872
Bearing. Roller.....	F. Purdon, H. E. Walters, and W. H. Woodcock.....	524,397	Aug. 14	768	187	68	818
Bearing. Roller.....	B. D. Tabor.....	526,120	Sept. 18	1390	324	68	1429
Bearing. Roller.....	W. F. Wellman.....	515,635	Feb. 27	2729	680	66	1412
Bearing. Roller and ball.....	G. J. Cline.....	524,705	Aug. 21	1263	311	68	923
Bearing. Roller thrust.....	J. R. Burdick.....	529,853	Nov. 27	2263	564	69	1126
Bearing. Shaft.....	J. F. Newell.....	513,953	Jan. 30	3685	907	66	830
Bearing. Shaft.....	S. H. Wheeler.....	527,641	Oct. 16	1587	383	69	323
Bearing. Universal adjustable.....	E. J. Muller.....	524,725	Aug. 21	1300	{ 318 319 }	68	929
Bearing. Vehicle ball.....	E. L. Brown.....	527,659	Oct. 16	1613	389	69	328
Bearing. Vehicle ball.....	D. Pettit.....	517,235	Mar. 27	2520	592	66	1974
Bearing. Vertical-shaft.....	A. C. Pessano.....	514,684	Feb. 13	1185	295	66	1094
Bearing wheel. Ball.....	H. F. Coates.....	531,101	Dec. 18	1787	426	69	1570
Bearing. Wheel ball.....	S. Elliott.....	518,138	Apr. 10	1198	300	67	234
Bearing wheel. Roller.....	S. D. Wright and J. W. Hornsey.....	515,101	Feb. 20	1838	464	66	1231
Bearings. Dust-guard for pedal.....	H. M. Pope.....	520,537	May 29	2779	672	67	1112
Bearings with loose rollers. Guide for Beater and dropper.....	J. W. Hyatt.....	522,214	July 3	70	15	68	14
Beating-engine.....	A. Burgess.....	515,571	Feb. 27	2631	654	66	1392
Beating-engine.....	J. P. Cornett.....	524,934	Aug. 21	1653	{ 404 405 }	68	992
Beating-engine for rags, &c.....	P. Dillon.....	524,497	Aug. 14	915	226	68	846
Beating-out machine.....	W. E. Forster and E. H. Taylor.....	513,385	Jan. 23	2743	668	66	618
Bed and couch. Combined.....	E. B. Clark.....	529,644	Nov. 20	2007	480	69	1051
Bed and table combined. Folding.....	L. Kabell.....	528,370	Oct. 30	2870	{ 694 695 }	69	587
Bed-bottom. Extensible.....	A. H. Freese.....	531,370	Dec. 25	2229	546	69	1678
Bed-bottom. Spring.....	D. Leonard.....	521,590	June 19	1502	352	67	1500
Bed-bottom. Spring.....	M. C. Silver.....	514,386	Feb. 6	687	{ 173 174 }	66	982
Bed-bottom. Spring.....	T. A. Stoll.....	530,248	Dec. 4	302	76	69	1270
Bed-bottom. Spring.....	L. Wildermath.....	519,368	May 8	792	194	67	705
Bed-bottom. Wire.....	O. H. Elliott.....	516,047	Mar. 6	515	119	66	1548
Bed-brace.....	N. Clark.....	516,474	Mar. 13	1218	292	66	1695
Bed-brace.....	J. A. Fretwell.....	515,705	Feb. 27	2850	709	66	1435
Bed-brace.....	W. H. Moffitt.....	525,226	Aug. 28	2178	532	68	1102
Bed-brace.....	W. H. Parker.....	518,696	Apr. 24	2179	545	67	444
Bed-brace.....	W. H. Parker.....	518,697	Apr. 24	2180	545	67	444
Bed-brace.....	W. P. Smith.....	515,557	Feb. 27	2611	648	66	1388
Bed-brace.....	W. A. Watson, Jr.....	516,955	Mar. 20	2029	480	66	1861
Bedclothes-clamp.....	H. L. Jensen.....	526,490	Sept. 25	2056	489	68	1566
Bedclothes-fastener.....	Z. H. Jacobs.....	512,966	Jan. 16	2098	497	66	422
Bedclothes-holder.....	G. H. Hollidge.....	528,432	Oct. 30	2976	720	69	606
Bedclothes-holder.....	C. E. Muller.....	527,872	Oct. 23	1979	476	69	411
Bed. Combination folding.....	E. E. Murphy.....	517,357	Mar. 27	2721	639	66	2014
Bed. Couch.....	W. S. Bowie.....	523,619	July 24	2500	628	68	513
Bed. Folding.....	C. B. Adriance.....	514,402	Feb. 6	711	180	66	987
Bed. Folding.....	R. T. Barton.....	530,742	Dec. 11	1180	{ 287 288 }	69	1444
Bed. Folding.....	M. J. Hafgar.....	514,547	Feb. 13	951	{ 240 241 }	66	1050
Bed. Folding.....	S. Hawver.....	523,983	Aug. 7	26	6	68	667
Bed. Folding.....	J. P. Hayes.....	520,779	June 5	30	6	67	1202
Bed. Folding.....	K. L. Hyller.....	515,686	Feb. 27	2818	702	66	1429
Bed. Folding.....	K. L. Hyller.....	530,777	Dec. 11	1243	300	69	1457
Bed. Folding.....	E. M. Knoblauch.....	528,328	Oct. 30	2797	675	69	574
Bed. Folding.....	C. F. Mankey.....	516,335	Mar. 13	976	{ 231 232 }	66	1651
Bed. Folding.....	J. D. Morarity.....	524,858	Aug. 21	1524	373	68	970
Bed. Folding.....	T. Opel.....	529,944	Nov. 27	2511	{ 604 605 }	69	1152
Bed. Folding.....	G. O. Richardson.....	512,901	Jan. 16	1984	471	66	403
Bed. Folding.....	A. F. Robinson and A. B. Dodge.....	520,244	May 22	2295	557	67	1006
Bed. Folding.....	H. W. Ru Ton.....	528,609	Nov. 6	148	37	69	674
Bed. Folding.....	M. Samuels.....	527,006	Oct. 2	547	134	69	104
Bed. Folding.....	M. Samuels.....	530,855	Dec. 11	1358	324	69	1477
Bed. Folding.....	E. Schröter.....	516,660	Mar. 20	1545	368	66	1773
Bed. Folding.....	L. B. Shelton and N. Gentry.....	523,948	July 21	3107	773	68	642
Bed. Folding.....	J. F. Wilmot.....	516,290	Mar. 13	903	213	66	1638
Bed. Folding metal.....	A. D. Houston.....	518,996	May 1	96	23	67	553
Bed. Folding-metal.....	A. D. Houston.....	518,997	May 1	97	23	67	554
Bed. Hospital.....	A. Helander.....	522,342	July 3	286	75	68	57

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bed. Invalid.....	J. Eggert.....	513,310	Jan. 23	2627	637	66	596
Bed. Invalid.....	J. M. Liechty.....	517,928	Apr. 10	838	211	67	175
Bed. Invalid.....	J. B. Scearce.....	520,576	May 29	2845	687	67	1125
Bed joint. Folding.....	C. Bostad.....	520,751	May 29	3143	761	67	1179
Bed-lounge.....	A. J. Gautran.....	531,461	Dec. 25	2455	584	69	1710
Bed. Lounge.....	C. W. Vogel.....	523,608	July 24	2475	622	68	508
Bed or crib.....	M. E. Converse.....	523,514	July 24	2331	586	68	421
Bed. Portable folding.....	S. C. Wherry.....	522,569	July 3	674	171	68	131
Bed-rest.....	J. E. Plummer.....	517,623	Apr. 3	338	80	67	66
Bed. Sofa.....	A. F. Conant.....	520,635	May 29	2939	710	67	1142
Bed. Sofa.....	A. L. Gillen and A. Godfrey.....	526,150	Sept. 18	1442	337	68	1438
Bed. Sofa.....	J. H. Phillips and F. C. Feldman.....	523,372	July 24	2070	{ 520 521 }	{ 68 68 }	436
Bed. Sofa.....	E. Sodergren.....	519,207	May 1	423	117	67	631
Bed. Sofa.....	H. Whiteside.....	525,436	Sept. 4	201	50	68	1128
Bed. Spring.....	A. E. Beall.....	514,898	Feb. 20	1539	385	66	1176
Bed. Spring.....	J. R. Brown.....	511,993	Jan. 2	441	103	66	84
Bed. Spring.....	O. S. Foster.....	526,831	Oct. 2	264	64	69	50
Bed. Spring.....	D. G. Rollins.....	515,793	Mar. 6	106	25	66	1474
Bed-spring.....	L. Wildermuth.....	520,383	May 22	2526	611	67	1051
Bed-spring and slat holder.....	R. G. Melsou.....	514,765	Feb. 13	1320	329	66	1120
Bed-springs. Device for tightening woven-wire.....	E. M. Easting.....	517,818	Apr. 3	668	167	67	129
Bed. Time-alarm.....	G. Q. Seaman.....	516,614	Mar. 13	1457	344	66	1740
Beds or seats. Elastic wire support for.....	G. Dominick.....	526,860	Oct. 2	319	78	69	61
Bedstead.....	W. Goodliffe.....	520,733	May 29	3112	{ 753 754 }	{ 67 66 }	1174
Bedstead.....	W. P. Hoskins.....	513,684	Jan. 30	3268	804	66	749
Bedstead.....	H. Karp.....	517,280	Mar. 27	2589	607	66	1987
Bedstead.....	G. E. Proctor.....	517,482	Apr. 3	111	25	67	23
Bedstead. Adjustable.....	T. A. Martin.....	525,959	Sept. 11	1120	{ 254 255 }	{ 68 68 }	1368
Bedstead and couch.....	M. Rittberger.....	513,419	Jan. 23	2791	683	66	627
Bedstead attachment.....	E. Brulé.....	519,301	May 1	648	158	67	662
Bedstead-brace.....	C. H. Bernbeim.....	512,092	Jan. 2	606	145	66	116
Bedstead. Cabinet or wardrobe.....	F. W. Nye.....	521,585	June 19	1510	353	67	1502
Bedstead clothes-rack attachment.....	J. P. Edmonds and J. A. Kyle.....	526,659	Nov. 6	248	62	69	691
Bedstead-fastening.....	W. F. Bernstein.....	522,821	July 10	1123	278	68	227
Bedstead-fastening.....	O. S. Foster.....	529,486	Nov. 20	1750	415	69	1003
Bedstead. Folding.....	O. Alexander.....	512,674	Jan. 16	1565	377	66	323
Bedstead. Folding.....	P. G. Le Dan.....	514,326	Feb. 6	606	153	66	966
Bedstead. Folding.....	T. T. Woodruff.....	512,184	Jan. 2	755	184	66	144
Bedstead. Folding.....	T. T. Woodruff.....	512,185	Jan. 2	758	{ 184 185 }	{ 66 66 }	144
Bedstead-frame.....	W. P. Hoskins.....	513,685	Jan. 30	3269	804	66	749
Bedstead. Invalid.....	G. E. Gorham.....	525,952	Sept. 11	1091	249	68	1362
Bedstead. Metallic.....	J. B. Ryan.....	524,955	Aug. 21	1620	412	68	997
Bedstead. Wardrobe.....	L. Harris and M. Jaiser.....	522,013	June 26	2264	542	67	1659
Bedsteads. Head-rest for.....	G. G. J. Millar.....	530,786	Dec. 11	1255	303	69	1459
Beefsteak-hacker.....	J. W. Bernard.....	513,666	Jan. 30	3243	796	66	744
Beehive.....	R. C. Aikin and H. Knight.....	522,772	July 10	1045	258	68	213
Beehive.....	F. Danzenbaker.....	521,876	June 26	1982	479	67	1609
Beehive.....	J. N. Sheffield.....	525,747	Sept. 11	739	171	68	1299
Beehive.....	B. Taylor.....	519,652	May 8	1290	308	67	793
Beehive.....	H. H. Weyer.....	516,340	Mar. 13	982	233	66	1653
Beehive-super.....	G. C. Ferguson.....	529,116	Nov. 13	1062	256	69	859
Beer, ale, porter, &c. Process of and apparatus for the manufacture of.....	L. Wagner, J. Marr, and H. Campbell.....	524,744	Aug. 21	1328	{ 325 326 }	{ 68 68 }	934
Beer, &c. Apparatus for dispensing.....	J. P. Day.....	518,137	Apr. 10	1197	300	67	234
Beer, &c. Apparatus for dispensing root.....	S. F. Kates.....	525,543	Nov. 6	35	9	69	653
Beer. Apparatus for pasteurizing and racking off.....	A. O. Müller and A. Giesen.....	519,193	May 1	452	111	67	624
Beer-bottling apparatus.....	V. Oppl.....	530,600	Dec. 11	942	{ 231 232 }	{ 69 69 }	1403
Beer-carbonating apparatus.....	C. Barus.....	531,356	Dec. 25	2256	538	69	1672
Beer-carbonating apparatus.....	C. Barus.....	523,450	July 24	2213	556	68	460
Beer-condensing and bottle-filling apparatus.....	G. W. Farrell.....	519,888	May 15	1673	407	67	878
Beer-cooler.....	W. Gibson.....	516,196	Mar. 13	757	177	66	1610
Beer-cooler.....	H. Hahn.....	519,708	May 15	1384	333	67	824
Beer. Device for drawing steam.....	C. Harth.....	515,470	Feb. 27	2473	612	66	1361
Beer-dispensing apparatus.....	D. Leacock.....	525,955	Sept. 11	1099	250	68	1363
Beer drawing and saving apparatus.....	W. R. Dales.....	530,827	Dec. 11	1312	316	69	1470
Beer-faucets and returning same to kegs under gas-pressure. Apparatus for collecting drippings from.....	H. Genovar.....	523,274	July 17	1906	480	68	389
Beer-faucets and returning same to kegs under gas-pressure. Apparatus for collecting drippings from.....	H. E. Bailey.....	531,494	Dec. 25	2507	597	69	1720
Beer-glass counter or game-register.....	B. Quietsch and C. R. Glass.....	524,214	Aug. 7	424	100	68	739
Beer, &c., in receptacles for market. Process of and apparatus for preparing.....	A. M. Hofmann.....	531,314	Dec. 25	2184	{ 522 523 524 }	{ 69 69 69 }	1658
Beer. Making.....	J. C. Pennington.....	515,011	Feb. 20	1703	428	66	1207
Beer. Manufacturing.....	P. Kropf.....	528,374	Oct. 30	2874	696	69	568
Beer. Means for transporting.....	V. Oppl.....	527,123	Oct. 9	732	{ 179 180 }	{ 69 69 }	151
Beer. Method of and apparatus for extracting air from.....	J. Hunt.....	517,161	Mar. 27	2398	565	66	1950
Beer on tap. Apparatus for storing and preserving.....	C. Shabley.....	514,508	Feb. 13	893	227	66	1039
Beer-pressure apparatus.....	R. D. Schroeder.....	520,224	May 22	2262	550	67	999
Beer-tapping device.....	H. Friedlander.....	530,761	Dec. 11	1209	294	69	1450
Beer-vats. Apparatus for drying.....	H. Bentelsbacher.....	515,570	Feb. 27	2630	653	66	1392
Beer with carbonic acid. Impregnating.....	J. F. Theurer.....	519,141	May 1	355	84, 85	67	606
Belaying-pin. Releasing.....	A. V. T. Sabroe.....	530,722	Dec. 11	1151	279	69	1439
Bell.....	W. R. Mackay.....	523,899	July 31	3004	747	68	622
Bell.....	E. D. Rockwell.....	517,395	Mar. 27	2519	659	66	2033
Bell. Alarm.....	C. S. Bradley.....	515,991	Mar. 6	422	97	66	1531
Bell. Alarm.....	A. H. Langdon.....	519,581	May 8	1169	321	67	772
Bell. Alarm.....	J. C. Wells.....	513,627	Jan. 30	3173	779	66	731

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Di'g.	Vol.	Page.
Bell-alarm. Electric	W. H. Orpen, Jr.	514,960	Feb. 20	1626	408	66	1193
Bell and burglar-alarm. Door	J. T. Stone	530,666	Dec. 11	1057	257	69	1422
Bell and burglar-alarm. Door	J. T. Stone	530,667	Dec. 11	1059	258	69	1422
Bell. Automatic bicycle	C. A. Bemis and E. A. Adams	531,457	Dec. 25	2446	582	69	1709
Bell. Bicycle	E. C. Barton	513,606	Jan. 30	3138	770	66	725
Bell. Bicycle	R. H. Charles	517,026	Mar. 27	2159	511	66	1904
Bell. Bicycle	A. A. Page	525,862	Sept. 11	964	216	68	1338
Bell. Call	C. W. Storm	526,417	Sept. 25	1936	461	68	1545
Bell-crank. Adjustable double	N. W. Boyd	516,361	Mar. 13	1032	246	66	1661
Bell. Door	B. S. Cowles	523,884	July 31	2985	743	68	618
Bell, &c. Door	I. L. Garside	513,499	Jan. 30	2950	726	66	691
Bell. Door	J. R. Sautter	518,077	Apr. 10	1100	278	67	217
Bell. Electric	J. H. McEvoy	513,593	Jan. 30	3113	765	66	721
Bell. Electric	C. Turnbull, Jr.	513,219	Jan. 23	2473	597	66	564
Bell. Electric	C. Turnbull, Jr.	513,220	Jan. 23	2474	597	66	565
Bell. Electric	R. Varley, Jr.	525,169	Aug. 28	2099	511	68	1087
Bell. Electric	E. G. Worley	530,253	Dec. 4	309	77	69	1272
Bell. Electromagnetic call	J. J. Geary	525,145	Aug. 28	2048	500	68	1080
Bell for doors, tables, &c.	I. L. Garside	512,435	Jan. 9	1180	286	66	235
Bell for pneumatic tubes. Electric call	L. Strouse	513,345	Jan. 23	2677	649	66	605
Bell. Magneto call	J. B. Smith	526,982	Oct. 2	510	125	69	96
Bell. Non-winding door	W. A. Barnes	520,980	June 5	414	99	67	1272
Bell. Pneumatic	J. Schnepf	515,447	Feb. 27	2437	604	66	1355
Bell-ringing mechanism	W. G. Alexander	528,134	Oct. 30	2469	597	69	515
Bell-ringing mechanism	W. H. Durfee	516,085	Mar. 6	570	133	66	1559
Bell. Signal	W. S. Adams	519,828	May 15	1571	384	67	859
Bell. Signal	I. L. Garside	531,373	Dec. 25	2293	547	69	1679
Bell. Sleigh	J. Fisher	523,950	Aug. 7	22	5	68	667
Bell. Staff	F. Smith	513,152	Jan. 23	2375	573	66	546
Bells. Protector for electric or other	L. R. Lecellier	518,613	Apr. 24	2031	505	67	417
Bellows for forges, &c.	S. Rucinski and F. M. Kozlowski	522,808	Nov. 6	510	123	69	739
Belt	G. E. Zeltmacher	513,448	Jan. 23	2850	699	66	637
Belt. Cartridge and game	J. R. Randle	523,052	July 17	1509	377	68	317
Belt. Conductor's money	J. T. Doherty	524,104	Aug. 7	229	51	68	703
Belt. Electric	J. Backstrom and F. W. Johnson	527,922	Oct. 23	2072	496	69	428
Belt. Electric	F. A. Brewster	524,664	Aug. 14	1194	292	68	897
Belt. Electric	W. C. Fuller	513,387	Jan. 23	2746	669	66	618
Belt. Electric	L. F. Fuller and A. J. Taylor	531,109	Dec. 18	1803	429	69	1573
Belt. Electric	J. J. Hankey	526,833	Oct. 2	266	64	69	50
Belt. Electric	W. E. J. Lawlor	522,841	July 10	1148	284	68	232
Belt. Electric	E. M. Miles	521,594	June 19	1508	353	67	1502
Belt. Electric	P. E. Peterson	518,894	Apr. 24	2524	624	67	506
Belt-fastener	C. Claudy and J. Klusmeyer	529,364	Nov. 20	1507	362	69	961
Belt-fastener	A. W. M. Keen	514,998	Feb. 20	1682	422	66	1203
Belt-fastener	A. Mills	525,790	Sept. 11	815	186	68	1313
Belt-fastener	J. F. Williams	524,432	Aug. 14	817	199	68	828
Belt-fasteners. Die for bending teeth of sheet-metal	W. O. Talcott	525,124	Aug. 28	2006	490	68	1072
Belt-fasteners. Machine for making sheet-metal	W. O. Talcott	525,123	Aug. 28	2004	490	68	1072
Belt hook or clamp	J. W. Taylor	526,757	Oct. 2	150	36	69	29
Belt. Metal driving	H. Sewrey	523,012	July 17	1440	360	68	303
Belt-regulator. Automatic	E. Egger and F. A. Wessel	518,314	Apr. 17	1512	378	67	308
Belt. Safety	H. Scharf	530,799	Dec. 11	1271	307	69	1462
Belt-shipper	L. Armanni	527,190	Oct. 9	834	203	69	170
Belt. Suspensory	E. J. Pike	529,750	Nov. 27	2182	520	69	1091
Belt. Sword	S. N. Bickerstaff	523,828	July 31	2881	716	68	599
Belt-tightener	G. H. Hanson	516,927	Mar. 20	1983	466	66	1954
Belt-tightener	H. P. D. Krueger	530,278	Dec. 4	355	88	69	1280
Belt-tightener	B. F. Radford	527,506	Oct. 16	1365	332	69	283
Belt-tightener	C. C. Stuart	520,580	May 29	2855	690	67	1127
Belt-tightener	M. Waddell	528,242	Oct. 30	2652	639	69	548
Belt tightener and shifter	T. F. Vandegrift	512,850	Jan. 16	1901	449	66	387
Belt. Waist	W. L. de Normanville	515,302	Feb. 20	2188	542	66	1297
Belt. Manufacture of round leather	F. E. Druschky and L. A. Schjerling	526,617	Sept. 25	2246	537	68	1602
Bench:							
See Foot-bench.	Washbench.						
Sewing-bench.							
Bench-dog	C. A. Wayland	517,317	Mar. 27	2655	623	66	2000
Bench pin, guide, and knife. Combined carpenter's	J. H. Fredericks	521,234	June 12	856	201	67	1365
Bench-stop	J. Daily	531,102	Dec. 18	1788	426	69	1570
Bending-machine	D. R. Cowan	512,366	Jan. 9	1051	256	66	210
Bending-machine	W. J. Plecker	518,765	Apr. 24	2307	573	67	465
Bending special shapes of iron, steel, or other metal. Machine for	F. Sotter	529,536	Nov. 20	1839	438	69	1020
Berth. Collapsible sleeping	A. H. Baird	516,514	Mar. 13	1294	307	66	1709
Berth raising or lowering mechanism	G. H. Poor	520,760	May 29	3159	765	67	1182
Berth. Ship's	E. Lawson	513,190	Jan. 23	2429	587	66	557
Berth. Ship's	E. Lawson	517,462	Apr. 3	83	18	67	18
Berths. Construction of	W. W. M. Williams	525,673	Sept. 4	591	142	68	1260
Bevel	W. H. Coombs	524,933	Aug. 21	1652	404	68	991
Bevel	J. T. Langlais	521,414	June 12	1171	278	67	1426
Bevel	C. H. Scott, C. H. Harvey, and B. R. Scott	526,638	Sept. 25	2276	545	68	1608
Bevel and square. Combined	T. Fahey	524,417	Aug. 14	796	195	68	823
Beveling-shears for cardboard	A. Krah	524,638	Aug. 14	1154	283	68	891
Beverage-cooler	J. Busch	528,463	Oct. 30	3037	737	69	617
Beverage-dispensing apparatus	L. and F. Kohout	519,537	May 8	1096	263	67	759
Beverage-vessel	J. M. Van Fleet	523,951	July 31	3110	774	68	642

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.-g.	Vol.	Page.
Beverages. Apparatus for and process of making carbonated	J. Macksey and W. Helmer	511,903	Jan. 2	297	69, 70	66	57
Beverages. Apparatus for charging and drawing carbonated	E. Stahl	523,872	July 31	2963	738	68	614
Beverages. Apparatus for making carbonated	J. Macksey, W. Helmer, and G. E. Barton.	518,577	Apr. 17	1973	{ 488 489 }	67	391
Beverages from ice. Making	C. Fong	528,514	Oct. 30	3117		69	632
Bicycle	V. Bélangier	526,360	Sept. 18	1805	427	68	1508
Bicycle	A. H. Bishop	521,363	June 12	1094	257	67	1411
Bicycle	S. Bramall	529,700	Nov. 27	2099	503	69	1078
Bicycle	C. H. Carr	518,777	Apr. 24	2329	577	67	470
Bicycle	J. Carr	528,145	Oct. 30	2483	601	69	518
Bicycle	A. H. Clark	524,131	Aug. 7	283	66	62	713
Bicycle	M. J. Clark and E. A. Northrup	512,538	Jan. 9	1348	325	66	266
Bicycle	W. A. Courtland	520,728	May 27	3104	{ 751 752 }	67	1172
Bicycle	P. J. Deacon	529,717	Nov. 27	2129	510	69	1083
Bicycle	F. Douglas	518,591	Apr. 24	2001	496	67	412
Bicycle	L. Ferguson	528,423	Oct. 30	2955	716	69	603
Bicycle	C. E. Ford	519,252	May 1	565	137	67	647
Bicycle	G. W. Freeman	516,157	Mar. 6	680	160	66	1580
Bicycle	R. J. Gatling	519,384	May 8	817	199	67	709
Bicycle	J. Gillingham	530,042	Nov. 27	2702	649	69	1191
Bicycle	S. A. Grant	520,396	May 22	2542	614	67	1054
Bicycle	G. G. Hasbrunck	516,435	Mar. 13	1151	{ 275 276 }	66	1683
Bicycle	E. Homan	529,267	Nov. 13	1337	320	69	908
Bicycle	T. B. Hyde	517,637	Apr. 3	473	114	67	91
Bicycle	E. D. King	520,826	June 5	128	28	67	1220
Bicycle	H. La Casse	518,411	Apr. 17	1692	{ 419 420 421 422 }	67	342
Bicycle	H. La Casse	524,389	Aug. 14	742	{ 180 181 182 }	68	814
Bicycle	H. W. Libbey	522,908	July 10	1254	310	68	253
Bicycle	H. W. Libbey	530,540	Dec. 11	838	206	69	1384
Bicycle	F. Lillibridge	515,150	Feb. 20	1928	483	66	1247
Bicycle	C. R. Mayne	520,796	June 5	68	14	67	1210
Bicycle	C. H. Metz	513,589	Jan. 30	3108	764	66	720
Bicycle	T. Miller, Jr.	522,610	July 10	757	191	68	163
Bicycle	J. N. Moehn and J. Graves	514,198	Feb. 6	376	90	66	925
Bicycle	E. J. O'Connor	519,024	May 1	137	34	67	562
Bicycle	F. H. Peck	523,942	July 31	3097	771	68	640
Bicycle	F. H. Peck	523,943	July 31	3099	771	68	640
Bicycle	H. M. Pope	514,382	Feb. 6	682	172	66	981
Bicycle	J. A. Richards	513,144	Jan. 23	2361	570	66	544
Bicycle	F. Risinger	524,652	Aug. 14	1174	288	68	894
Bicycle	F. E. Roberts	516,115	Mar. 6	609	142	66	1566
Bicycle	S. Scognamiglio and C. Dominici	527,728	Oct. 16	1725	416	69	348
Bicycle	E. W. Scott	525,724	Sept. 11	698	162	68	1292
Bicycle	H. B. Scovell	515,449	Feb. 27	2439	604	66	1355
Bicycle	H. F. Sheldon	519,557	May 8	1124	270	67	763
Bicycle	H. L. Sherwood	514,782	Feb. 13	1349	337	66	1125
Bicycle	W. A. Smith	516,554	Mar. 13	1359	323	66	1722
Bicycle	R. T. Starr	514,572	Feb. 13	994	250	66	1058
Bicycle	I. L. Unterbrink	530,249	Dec. 4	304	76	69	1271
Bicycle	P. Weber	523,186	July 17	1760	441	68	362
Bicycle	C. B. Whitaker and E. D. Lyon	527,396	Oct. 9	1183	290	69	235
Bicycle	C. E. Whitaker	518,338	Apr. 17	1558	327	67	317
Bicycle	C. E. Whitaker	519,855	May 15	1618	394	67	862
Bicycle	S. A. White	522,570	July 3	675	171	68	131
Bicycle	M. L. Wilcox	523,562	July 24	2405	602	68	495
Bicycle	J. G. Ziegler	527,135	Oct. 9	751	184	69	154
Bicycle adjusting device	A. Perkins	524,951	Aug. 21	1675	410	68	996
Bicycle adjusting device	J. H. Prince	517,294	Mar. 27	2623	615	66	1993
Bicycle alarm	J. A. Weaver, Jr.	529,223	Nov. 13	1257	303	69	893
Bicycle. Aquatic.	J. E. Ronk	520,899	June 5	266	64	67	1246
Bicycle attachment	W. J. Acheson	515,892	Mar. 6	254	59	66	1501
Bicycle attachment	M. E. Blood	521,132	June 5	674	159	67	1319
Bicycle attachment	L. A. Frankenberg	527,549	Oct. 16	1439	350	69	296
Bicycle attachment	C. H. Miller	512,044	Jan. 2	523	123	66	100
Bicycle attachment	E. Scott and J. O. Burke	530,726	Dec. 11	1156	280	69	1439
Bicycle attachment	B. A. Smith	515,600	Mar. 6	116	28	66	1475
Bicycle bag	B. Elliott	519,107	May 1	286	68	67	590
Bicycle bell clamp	E. D. Rockwell	524,240	Aug. 21	1500	367	68	965
Bicycle brake	F. J. Cole	527,479	Oct. 16	1325	323	69	276
Bicycle brake	I. W. Litchfield and T. W. Sanford	531,050	Dec. 18	1699	403	69	1555
Bicycle brake	E. J. Rea	524,398	Aug. 14	769	{ 187 188 }	68	819
Bicycle brake	E. S. Sill	519,742	May 15	1432	345	67	832
Bicycle brake	G. E. Whitney	527,571	Oct. 16	1468	358	69	301
Bicycle brake mechanism	W. H. Binns	520,017	May 15	1877	459	67	915
Bicycle canopy	L. Z. Jenkins	522,063	June 26	2335	{ 560 561 }	67	1673
Bicycle change-gear mechanism	A. L. Easingwood	514,452	Feb. 13	784	201	66	1019
Bicycle chain adjustment	M. L. Wilcox	519,056	May 1	189	45	67	573
Bicycle clamping device	L. J. Creechus	519,667	May 8	1310	313	67	797
Bicycle crank	Z. L. Chadbourne	515,421	Feb. 27	2401	595	66	1348
Bicycle crank	F. F. Ide	518,456	Apr. 17	1777	442	67	357
Bicycle driving-gear	V. Crusier	516,082	Mar. 6	565	132	66	1558
Bicycle driving-gear	D. Lippy and I. E. Finfrock	528,954	Nov. 13	804	188	69	813
Bicycle driving-gear	D. Lippy and I. E. Finfrock	528,955	Nov. 13	805	188	69	813
Bicycle driving-gear	D. Lippy and I. E. Finfrock	528,956	Nov. 13	806	188	69	813

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Bicycle driving-gear	D. Lippy and I. E. Finfrock	522,957	Nov. 13	807	188	69	814
Bicycle driving-gear	O. W. Schaum and C. Alvord	530,058	Nov. 27	2741	657	69	1198
Bicycle driving mechanism	G. S. Webb	527,568	Oct. 16	1463	{ 356 357 }	69	300
Bicycle dust-guard attachment	P. Miller and J. E. Lambeth	515,007	Feb. 20	1695	426	66	1205
Bicycle. Folding	M. B. Ryan	518,330	Apr. 17	1539	384	67	313
Bicycle foot-brake	C. F. Porter	529,627	Nov. 20	1975	471	69	1046
Bicycle foot-rest	M. W. Smith	516,902	Mar. 20	1936	457	66	1846
Bicycle-frame	L. M. Wainwright	519,783	May 15	1503	365	67	846
Bicycle-frame	G. F. Washburn	517,501	Apr. 3	146	31	67	30
Bicycle-frame	G. F. Washburn. (Reissue.)	11,449	Oct. 23	2462	595	69	499
Bicycle-gear	E. J. Swedlund	519,933	May 15	1739	426	67	890
Bicycle-gear case	A. M. Moore	517,959	Apr. 10	901	226	67	185
Bicycle-gearing	A. D. Anthony	522,547	July 3	628	160	68	123
Bicycle-gearing	V. Cruser	525,694	Sept. 11	648	151	68	1253
Bicycle-gearing	D. C. Frazee	513,101	Jan. 23	2284	553	66	528
Bicycle-gearing	E. L. Shultz	518,970	May 1	54	14	67	546
Bicycle-gearing	L. Watkins	516,287	Mar. 13	900	212	66	1638
Bicycle-gearing. Changeable	H. L. Bailey	517,995	Apr. 10	970	242	67	195
Bicycle-handle. Adjustable	R. C. Whayne	525,171	Aug. 28	2103	511	68	1088
Bicycle-handle. Adjustable	E. C. Woodard	527,576	Oct. 16	1482	360	69	304
Bicycle heel-clip	E. F. Baenziger	516,996	Mar. 20	2095	496	66	1875
Bicycle lamp-holder	T. Sanders	528,811	Nov. 6	514	124	69	739
Bicycle-lantern holder	F. C. Weston	511,982	Jan. 2	424	99	66	81
Bicycle-lantern lock	W. A. Blakeslee	530,384	Dec. 4	546	135	69	1315
Bicycle-lock	J. W. Cross	512,868	Jan. 16	1934	458	66	393
Bicycle-lock	C. C. Free and N. F. Heath	527,418	Oct. 16	1219	298	69	254
Bicycle-lock	S. C. Hone	525,953	Sept. 11	1094	249	68	1362
Bicycle lock attachment	W. and S. H. Lamb, Jr.	518,323	Apr. 17	1530	381	67	812
Bicycle-lubricator	C. O. Furbush, Jr.	531,176	Dec. 18	1930	459	69	1597
Bicycle mirror attachment	K. F. Bucherer	516,910	Mar. 20	1953	460	66	1849
Bicycle mud-guard	M. E. Griswold	515,213	Feb. 20	2028	506	66	1266
Bicycle mud-guard	R. C. Rndy	520,245	May 22	2228	558	67	1007
Bicycle-pedal	C. H. Davids	527,384	Oct. 9	1161	284	69	231
Bicycle-pedal	A. Perkins	530,859	Dec. 11	1427	{ 338 339 }	69	1490
Bicycle-pedal	S. Scognamiglio and C. Dominici	527,349	Oct. 9	1101	269	69	218
Bicycle-pedals. Toe-clip for	C. F. Porter	529,951	Nov. 27	2524	608	69	1155
Bicycle propulsion gearing	M. L. Jacoby	516,933	Mar. 20	1993	{ 468 469 }	66	1856
Bicycle-rest	R. J. Noderer	529,939	Nov. 27	2493	601	69	1150
Bicycle-saddle	H. Bergfels	517,425	Apr. 3	5	2	67	4
Bicycle-saddle	H. Bergfels	517,538	Apr. 3	197	44	67	39
Bicycle-saddle	J. Cavanaugh	512,008	Jan. 2	465	111	66	89
Bicycle-saddle	I. G. Chatfield	512,862	Jan. 16	1925	455	66	391
Bicycle-saddle	G. E. Curtis	512,098	Jan. 2	616	148	66	118
Bicycle-saddle	L. M. Devore	525,190	Aug. 28	2126	{ 518 519 }	68	1092
Bicycle-saddle	A. L. Garford	523,115	July 17	1624	407	68	339
Bicycle-saddle	A. P. Morrow	524,068	Aug. 7	167	38	68	692
Bicycle-saddle	C. T. Rogers	531,333	Dec. 25	2318	531	69	1661
Bicycle-saddle	R. T. Torkelson	523,386	July 24	2093	527	68	440
Bicycle-saddle	F. E. Weaver	521,943	June 26	2121	507	67	1636
Bicycle safeguard and support	T. L. Bissell	531,016	Dec. 18	1636	388	69	1543
Bicycle-seat	A. L. Girard	523,341	July 24	2028	509	68	428
Bicycle-seat guard	F. F. Martin and F. V. De Bem	524,640	Aug. 14	1157	285	68	891
Bicycle-seat post	A. Perkins	523,944	July 31	3101	772	68	240
Bicycle-seat posts. Support for	L. S. Kallajian	512,379	Jan. 9	1074	262	66	215
Bicycle-signal	P. E. Matthes	525,153	Aug. 28	2059	502	68	1081
Bicycle-sled	L. Thanner	527,903	Oct. 23	2038	489	69	422
Bicycle sleigh attachment	J. B. Putrow	524,349	Aug. 14	673	164	68	800
Bicycle speed-gearing	G. A. McKenzie and A. T. Brock	512,479	Jan. 9	1265	304	66	251
Bicycle speed-gearing	A. D. Pringle	517,063	Mar. 27	2235	530	66	1918
Bicycle speed-indicator	E. Boulier	523,565	July 24	2108	603	68	496
Bicycle-stand	I. I. Fonda	529,827	Nov. 27	2315	551	69	1117
Bicycle-stand	F. G. Hurlbut	512,518	Jan. 9	1364	330	66	269
Bicycle-stand	A. D. Moulton	516,571	Mar. 13	1387	330	66	1727
Bicycle-stand	F. B. Mueller	518,325	Apr. 17	1534	382	67	312
Bicycle-stand	F. H. Pierce	528,028	Oct. 23	2279	549	69	465
Bicycle stand attachment	E. S. Bishop	513,870	Jan. 30	3566	877	66	806
Bicycle stand or holder	R. de Clairmont	519,016	May 1	124	30	67	559
Bicycle-step	E. A. Jones	519,579	May 8	1166	280	67	771
Bicycle-support	D. Brainerd	527,767	Oct. 23	1792	432	69	373
Bicycle-support	J. R. Crunkleton	518,022	Apr. 10	1010	254	67	203
Bicycle-support	B. B. Davis and J. F. McGowan	514,815	Feb. 13	1398	352	66	1135
Bicycle-support	A. Eisman	530,330	Dec. 4	451	113	69	1296
Bicycle-support	F. C. Halbach	525,457	Sept. 4	238	58	68	1195
Bicycle-support	J. A. McGinnis	513,243	Jan. 23	2524	608	66	575
Bicycle-support	W. S. Pipes and F. T. Guiher	518,698	Apr. 24	2191	545	67	444
Bicycle-support	C. A. Schloer	531,338	Dec. 25	2227	532	69	1666
Bicycle-support	W. H. Scott	526,543	Sept. 25	2129	510	68	1580
Bicycle supporting attachment	A. K. Sherwood	514,044	Feb. 6	109	26	66	874
Bicycle supporting attachment	H. W. Woodward	523,952	July 31	3112	774	68	643
Bicycle supporting device	E. D. Eaton	515,664	Feb. 27	2777	{ 691 692 }	66	1422
Bicycle tool-bag	J. A. Hunt	516,724	Mar. 20	1659	393	66	1793
Bicycle tool-box	A. S. Carter	514,542	Feb. 13	943	238	66	1048
Bicycle traveling-case	E. Andrews	522,186	July 3	1	1	68	3
Bicycle watch-carrier	G. K. Burleigh	516,998	Mar. 20	2097	496	66	1876
Bicycle-wheel	B. J. Bragdon	518,090	Apr. 10	1123	284	67	220
Bicycle-wheel	G. H. Chincock	523,831	July 31	2288	{ 718 719 }	68	600
Bicycle-wheel	G. Focht, Jr.	516,482	Mar. 13	1229	294	66	1697
Bicycle-wheel	G. W. Smiley and F. W. Dunlap	522,090	June 26	2378	572	67	1682

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Bicycle-wheel	E. and R. Stenersen and H. T. Pringle.	512,453	Jan. 9	1218	295	66	242
Bicycle-wheel brake	E. D. Rockwell	524,839	Aug. 21	1499	367	68	965
Bicycle-wheel mud-guard	C. E. Strange	512,069	Jan. 2	568	134	66	108
Bicycle-wheels. Manufacturing metallic rims for	C. H. Pugh	527,345	Oct. 9	1093	{ 265 266 }	{ 69 69 }	217
Bicycles. Adjustable handle-bar for	R. C. Fay	528,629	Nov. 6	183	45	69	679
Bicycles. Back-support for	R. A. Boyd	524,753	Aug. 21	1347	329	68	937
Bicycles. Child's seat for	F. A. Coulson	530,160	Dec. 4	143	37	69	1241
Bicycles, &c. Drive-gear mechanism for	S. Kaltonik	528,437	Oct. 30	2982	721	69	607
Bicycles, &c. Driving mechanism for	J. M. Allen and J. Parker	517,373	Mar. 27	2748	646	66	2019
Bicycles, &c. Driving mechanism for	W. P. Jencks	523,964	July 31	3136	721	68	648
Bicycles for military purposes. Arming	A. Briere	526,680	Oct. 2	17	4	69	6
Bicycles or other machines. Speed-multiplying gearing for	J. B. Grueter and O. Jackson	530,103	Dec. 4	44	12	69	1223
Bicycles or similar machines. Motive power for	J. Tullius	530,911	Dec. 11	1445	343	69	1494
Bicycles. Self-supporting attachment for	F. H. Kinder	525,954	Sept. 11	1098	250	68	1363
Bicycles, tricycles, or other velocipedes. Means for adjusting the driving-chains of safety	A. Blackwell	512,357	Jan. 9	1035	253	66	208
Bicycles. Variable driving-gear for	S. C. Eisenhart	517,739	Apr. 3	548	132	67	106
Bicycles, &c. Variable-speed gearing for	A. B. Stebbins	523,246	July 17	1263	468	68	381
Bilge-water alarm	C. Upton	530,368	Dec. 4	517	122	69	1309
Bill or account holder	J. F. Ridder	517,590	Apr. 3	286	66	67	56
Billets, lugots, &c. Apparatus for handling	H. Oliver and E. Scott	521,474	June 19	1298	302	67	1464
Billiard-ball	G. H. Burt	513,876	Jan. 30	3577	880	66	809
Billiard-ball	G. H. Burt	517,972	Apr. 10	919	230	67	188
Billiard-ball	T. Neumann	512,391	Jan. 9	1099	266	66	220
Billiard-balls from iron or steel. Manufacturing	K. K. A. Christianson	530,257	Dec. 4	317	.....	69	1273
Billiard-counter	W. S. Hannaford	520,987	June 5	426	102	67	1274
Billiard-cue	G. Gschwendtner	529,731	Nov. 27	2150	513	69	1066
Billiard-cue	L. K. Sprague and F. W. Bajus	524,871	Aug. 21	1544	378	68	973
Billiard-cue chalk-holder	H. Campbell	516,472	Mar. 13	1215	291	66	1695
Billiard-cue chalk	F. G. Chess	527,770	Oct. 23	1798	434	69	379
Billiard-cue chalk	G. Southwell	519,356	May 8	774	189	67	701
Billiard-cue lock	H. C. Hart	518,317	Apr. 17	1516	379	67	310
Billiard-cue tip	C. N. Briggs	529,775	Nov. 27	2221	529	69	1099
Billiard-cue-tip fastener	M. Pilgram	526,842	Oct. 2	283	68	69	54
Billiard-cue-tip fastening	A. Schueider	522,305	July 3	225	60	68	45
Billiard-cue-tipping rack	B. Wood	511,984	Jan. 2	425	99	66	81
Billiard-cues. Fastening for leather or rubber tips on	E. L. Marugg	515,477	Feb. 27	2482	614	66	1363
Billiard games. Apparatus for one-ball	G. Gschwendtner	520,423	May 29	2589	627	67	1078
Billiard or other cues. Chalk-holder for	C. A. Knauer	518,068	Apr. 10	1090	275	67	215
Billiard or pool register	C. W. Goetze and A. Knopp	523,468	July 24	2248	565	68	466
Billiard-table	L. Kaster	515,149	Feb. 20	1926	483	66	1247
Billiard-table	A. Woebis	517,715	Apr. 3	508	{ 122 123 }	{ 67 67 }	98
Billiard-table, bookcase, and desk. Combined	S. A. Faribault	513,314	Jan. 23	2631	{ 638 639 }	{ 66 66 }	597
Billiard-tables. Device for marking balk-lines on	S. S. Harman	518,450	Apr. 17	1767	438	67	356
Billiard time-register	G. J. Wainwright	524,124	Aug. 7	266	62	68	710
Bimetallic plates. Manufacture of	E. Martin	522,347	July 3	294	77	68	59
Bin: See Drainage-bin. Flour-bin. Dust-bin.							
Binder for books or pamphlets	A. J. Rudolph	528,693	Nov. 6	308	75	69	702
Binder for leaves	G. H. Winslow	517,635	Apr. 3	363	86	67	71
Binder for leaves	G. H. Winslow	529,091	Nov. 13	1029	248	69	853
Binder for music, magazines, &c.	W. C. Boeing and T. P. Stork	531,256	Dec. 18	2076	496	69	1622
Binder for papers, &c. Temporary	E. L. Brundage	513,979	Feb. 6	10	2, 3	66	857
Binder. Metallic	J. P. Kelsey	522,734	July 10	969	242	68	200
Binder. Temporary	R. Bell	515,138	Feb. 20	1906	479	66	1243
Binder. Temporary	W. H. Benson	524,456	Aug. 14	857	210	68	836
Binder. Temporary	E. L. Brundage	516,519	Mar. 13	1308	311	66	1711
Binder. Temporary	J. T. Gale	515,330	Feb. 27	2245	556	66	1319
Binder. Temporary	C. E. Morehouse	511,860	Jan. 2	181	45	66	38
Binder. Temporary	J. H. Nellis	528,551	Nov. 6	46	12, 13	69	655
Binders. Shield for knitter-fingers of	W. T. Schenck	526,463	Sept. 25	2016	480	68	1559
Binding and harvesting machines. Sheaf-carrier for	J. Miller	521,292	June 12	960	{ 227 228 }	{ 67 67 }	1384
Bird-cage spring. Duplex	A. B. Hendryx	528,721	Nov. 6	344	83	69	709
Bird-trap	A. Baker	518,173	Apr. 10	1259	{ 316 317 }	{ 67 67 }	245
Biscuit-making machine	W. Christie	516,077	Mar. 6	556	{ 130 131 }	{ 66 66 }	1556
Bit: See Anger-bit. Expansible bit. Boring-bit. Expansion-bit. Bridle-bit. Flour-packing bit. Drill-bit.							
Bit	A. A. Bourgeois	514,178	Feb. 6	337	81	66	917
Bit and mouth-opener. Combined	R. N. Harris	523,811	July 31	2852	708	68	593
Bit for cutting rosettes	E. Gollins	517,691	Apr. 3	467	112	67	90
Bit shank and chuck	M. L. Andrew	525,573	Sept. 4	430	103	68	1231
Bit-stock	F. J. Colvin	518,938	May 1	5	2	67	537
Bit-stock	F. M. Hay	526,314	Sept. 18	1723	407	68	1493
Black. Producing figures on anilin	F. V. Kallab	529,499	Nov. 20	1772	.....	69	1007
Blackboard	F. K. Hickok	515,335	Feb. 27	2254	559	66	1320
Blackboard	W. T. Slaughter	524,617	Aug. 14	1120	276	68	884
Blackboard and desk. Combined	H. E. Butler	513,020	Jan. 23	2253	544	66	521
Blacking machine. Automatic electrical boot	J. O. Heinze, Jr.	527,977	Oct. 23	2182	525	69	448
Blacking machine. Boot	J. B. Sweetland	527,900	Oct. 23	2031	488	69	421
Blank-feeding device	J. A. Gray and J. H. Murch	513,776	Jan. 30	3413	842	66	775
Blank. Freight	C. P. Clark, Jr.	520,353	May 22	2478	601	67	1041
Blast-furnace	J. W. Nesmith	512,053	Jan. 2	537	127	66	103

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Blasting-powder. Making chlorate.....	H. Maxim.....	512,042	Jan. 2	522	66	100
Blasting rock.....	G. M. Githens.....	512,816	Jan. 16	1835	434	66	374
Bleaching.....	H. Thies and E. Herzig.....	529,089	Nov. 13	1025	247	69	852
Bleaching-powder. Apparatus for making.....	C. Kellner.....	530,996	Dec. 18	1600	380	69	1536
Blind and ventilator. Combined.....	H. P. Egedal.....	514,918	Feb. 20	1569	394	66	1182
Blind hanger and guide.....	N. Saltmarsh.....	525,745	Sept. 11	736	170	68	1299
Blind operator. Window.....	R. E. Hall.....	516,681	Mar. 20	1580	376	66	1780
Blind operator. Window.....	R. E. Hall.....	522,592	July 10	715	183	68	156
Blind-slat holder and fastener.....	A. Harley.....	522,593	July 10	716	{ 183 184 }	68	156
Blind-stop.....	L. Jobin.....	518,368	Apr. 17	1630	402	67	331
Blind. Venetian.....	J. G. Wilson.....	529,770	Nov. 27	2216	528	69	1098
Blind. Window.....	T. Rasmusson and R. Johnson.....	514,605	Feb. 13	1058	264	66	1070
Blisters, poultices, &c. Protector for.....	I. M. Hemsteger.....	525,546	Sept. 4	387	94	68	1223
Block:							
See Building-block. Pavement-block.							
Chain attachment-block. Paving-block.							
Printing-block.							
Derailing-block. Pulley-block.							
Detaching-block. Snatch-block.							
Electrotype-block. Stamping-block.							
Filing-block. Stretching-block.							
Grip-block. Tackle-block.							
Hoisting-block. Toy building-block.							
Insulating-block.							
Block-signal apparatus.....	U. J. Fry and G. M. Basford.....	530,763	Dec. 11	1215	295	69	1451
Block-signal apparatus. Electrical.....	U. J. Fry and G. M. Basford.....	530,762	Dec. 11	1210	295	69	1450
Block-signal. Automatic.....	J. D. Taylor.....	516,558	Mar. 13	1364	{ 324 325 }	66	1723
Block-signaling system. Electric.....	A. J. Wilson.....	531,284	Dec. 18	2129	511	69	1632
Blocks. Manufacture of hollow.....	J. E. Granjon and C. Bellon.....	525,202	Aug. 28	2142	522	68	1085
Blotter-holder.....	A. Weinandy.....	525,880	Sept. 11	994	224	68	1344
Blotter. Ink.....	F. S. Rudge and R. E. Doolittle.....	522,432	July 3	456	115	68	91
Blotter. Self-binding.....	R. L. Boyd.....	529,892	Nov. 27	2423	582	69	1138
Blotting-pad.....	A. Fornander.....	526,366	Sept. 18	1823	432	68	1512
Blower.....	T. Kitson.....	526,236	Sept. 18	1587	373	68	1465
Blower.....	C. Rumley.....	523,548	July 24	2384	598	68	491
Blower. Centrifugal.....	W. H. Harrison.....	523,935	July 31	3081	767	68	637
Blower. Centrifugal.....	G. W. Poole.....	513,057	Jan. 16	2228	535	66	448
Blower. Centrifugal.....	G. W. Poole.....	514,381	Feb. 6	681	172	66	981
Blower. Centrifugal.....	J. O. Poole.....	514,625	Feb. 13	1087	271	66	1075
Blower. Fan.....	W. T. Christy.....	516,366	Mar. 13	1044	248	66	1662
Blower. Fire.....	T. O. Payne.....	519,733	May 15	1421	343	67	831
Blower or force-pump. Rotary pressure.....	J. S. Godfrey.....	517,273	Mar. 27	2580	605	66	1986
Blower or injector for boiler-furnaces. Steam.....	D. D. Gilbert.....	526,703	Oct. 2	58	15	69	13
Blower. Powder.....	R. S. Knode.....	513,189	Jan. 23	2429	566	66	556
Blower. Powder.....	R. E. Warner.....	518,975	May 1	62	16	67	548
Blower. Pressure.....	G. A. Spang.....	519,650	May 8	1286	308	67	792
Blower. Rotary.....	T. W. Green.....	515,212	Feb. 20	2026	{ 505 506 }	66	1266
Blower. Steam-jet.....	D. J. Crozier.....	523,198	July 17	1780	447	68	366
Blowers. Packing-box for rotary.....	W. W. Wainwright.....	525,776	Sept. 11	788	182	68	1308
Blowing-engine.....	C. A. Klotz.....	516,442	Mar. 13	1164	279	66	1686
Blowing-engine or compressor.....	W. E. Good.....	515,331	Feb. 27	2246	{ 557 558 }	66	1319
Blowing-engine or compressor.....	W. E. Good.....	526,031	Sept. 18	1229	{ 283 284 }	68	1400
Blowpipe.....	J. D. Ennes.....	515,425	Feb. 27	2409	596	66	1349
Blowpipe. Plumber's.....	W. M. Murphy.....	518,674	Apr. 24	2144	536	67	437
Blowpipes. Device for removing moil from.....	M. J. Owens.....	515,938	Mar. 6	169	41	66	1485
Blue. Soluble alizarin.....	H. N. F. Schaeffer.....	527,457	Oct. 16	1292	.....	69	270
Board:							
See Advertising-board. Mixing-board.							
Arc-light hanger-board. Shoot-board.							
Switchboard.							
Cutting-board. Talking-board.							
Dry-goods board. Violin finger-board.							
Game-board. Wagon shoveling-board.							
Ironing-board. Washboard.							
Board and cutter. Combined.....	A. H. Seaver.....	516,026	Mar. 6	476	110	66	1541
Board ripping or dividing machine.....	H. W. Stow.....	518,655	Apr. 24	2108	{ 526 527 }	67	430
Boat:							
See Dumping-boat. Row-boat.							
Life-boat. Submarine boat.							
Paddle-wheel boat. Torpedo-boat.							
Boat.....	J. L. Burton.....	514,908	Feb. 20	1555	329	66	1178
Boat.....	A. D. Gómez.....	514,824	Feb. 13	1410	356	66	1138
Boat.....	C. C. Heimbangh.....	520,823	June 5	124	27	67	1220
Boat.....	G. L. Godfrey.....	529,786	Nov. 27	2237	533	69	1102
Boat.....	G. Rooke.....	527,511	Oct. 16	1376	335	69	284
Boat and means for propelling same.....	A. Marty.....	515,548	Feb. 27	2594	{ 642 643 }	66	1385
Boat-ballasting device.....	J. P. Pool.....	521,388	June 12	1128	266	67	1417
Boat-detaching apparatus.....	F. Blanding.....	526,989	Oct. 2	521	127	69	98
Boat-detaching apparatus.....	H. E. Rottmer.....	515,021	Feb. 20	1717	431	66	1209
Boat engaging and disengaging gear.....	W. Mills.....	512,405	Jan. 2	524	124	66	100
Boat-knee.....	A. J. Nickerson.....	518,677	Apr. 24	2149	537	67	438
Boat-seat. Buoyant.....	G. Perkins.....	523,151	July 17	1091	423	68	350
Boats. Apparatus for facilitating launching life.....	H. H. Hallett.....	529,379	Nov. 20	1399	368	69	967
Boats, &c. Removable center and bilge keelson for metallic life.....	L. H. Raymond.....	524,350	Aug. 14	675	164	68	801
Bobbin and spindle.....	T. Wrigley.....	515,035	Feb. 20	1747	441	66	1213

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Body-shield.....	W. F. Keogh.....	525,710	Sept. 11	681	157	68	1289
Boiler:							
See Coffee-boiler. Steam and hot-water							
Heating-boiler. boiler.							
Hot-water boiler. Steam or hot-water boiler.							
Locomotive-boiler. Steam or other fluid boiler.							
Range-boiler. Straw-burning boiler.							
Sectional boiler. Tubular boiler.							
Smokeless boiler. Vertical-flue boiler.							
Stand-boiler. Washboiler.							
Steam-boiler. Water-tube boiler.							
Boiler.....	W. H. Berry.....	519,015	May 1	122	29, 30	67	559
Boiler.....	J. J. Bohner.....	530,006	Nov. 27	2643	635	69	1181
Boiler.....	P. B. Collier and J. H. Dignard.....	519,241	May 1	548	133	67	643
Boiler.....	B. F. Conner.....	528,762	Nov. 6	425	102	69	724
Boiler.....	O. C. Davis.....	519,887	May 15	1672	407	67	878
Boiler.....	C. S. Hopkins.....	519,285	May 1	621	150	67	657
Boiler.....	C. Hyde.....	528,103	Oct. 23	2405	151	69	488
Boiler.....	A. Jaeger.....	521,655	June 19	1606	376	67	1520
Boiler.....	H. H. Kelley.....	526,575	Sept. 25	2178	377	68	1589
Boiler.....	H. H. Kelley.....	527,337	Oct. 9	1051	261	69	215
Boiler.....	J. J. Long.....	523,672	July 31	2601	648	68	548
Boiler.....	T. A. Myers.....	525,228	Aug. 28	2181	532	68	1103
Boiler.....	J. Pierpoint.....	529,306	Nov. 13	1412	338	69	923
Boiler.....	J. H. Reader.....	521,476	June 19	1302	339	67	1465
Boiler.....	H. W. Reynolds.....	517,826	Apr. 3	677	168	67	131
Boiler.....	C. L. Seabury.....	523,489	July 24	2287	169	68	473
Boiler.....	D. Smith and H. P. Goldrick.....	522,805	July 10	1095	575	68	222
Boiler.....	H. Tetlow and T. Harrison.....	527,515	Oct. 16	1380	576	68	225
Boiler.....	J. Vanes.....	527,631	Oct. 16	1568	336	69	319
Boiler.....	G. H. Waltz and L. E. Patton.....	529,573	Nov. 20	1902	379	69	1031
Boiler.....	R. Wildman.....	528,352	Oct. 30	2830	453	69	580
Boiler and flue scraper. Steam-	J. C. A. Marekmann.....	530,621	Dec. 11	974	684	69	1409
Boiler and furnace.....	R. Müller.....	520,569	May 29	2835	684	67	1123
Boiler attachment. Steam.....	D. Risley.....	511,968	Jan. 2	403	94	66	77
Boiler-cleaner.....	J. N. Barnum.....	520,250	May 22	2305	559	67	1008
Boiler-cleaner.....	A. Schell.....	516,979	Mar. 20	2064	488	66	1870
Boiler-cleaner. Automatic.....	J. H. Barr.....	528,283	Oct. 30	2723	657	69	561
Boiler-cleaner. Automatic.....	A. L. Bauhard.....	521,874	June 26	1980	478	67	1608
Boiler-cleaner. Mechanical.....	C. W. Brown.....	526,853	Oct. 2	299	72, 73	69	57
Boiler-cleaning compound.....	F. Berger.....	517,562	Apr. 3	239	67	67	47
Boiler-covering.....	W. A. Scott, Jr.....	519,137	May 1	347	82, 83	67	605
Boiler-covering.....	T. Sparham.....	512,524	Jan. 9	1330	66	66	263
Boiler-feed.....	H. J. Weisser.....	522,393	July 3	384	98	68	76
Boiler-feed. Automatic.....	L. A. Parisher.....	512,742	Jan. 16	1671	401	66	343
Boiler-feed. Automatic.....	L. C. Springer.....	518,009	Apr. 10	993	248	67	200
Boiler-feed. Automatic.....	H. J. Weisser.....	521,351	June 12	1077	252	67	1407
Boiler-feeder.....	P. Hellmich.....	519,709	May 15	1385	334	67	824
Boiler-feeder.....	H. C. Lunge.....	522,474	July 3	514	130	68	102
Boiler-feeders. Automatic controlling device for.....	J. Desmond.....	521,644	June 19	1591	372	67	1517
Boiler-feeding apparatus.....	N. Clute.....	512,682	Jan. 16	1579	379	66	325
Boiler-flue cutter.....	C. H. Albert and C. Fox, Jr.....	514,985	Feb. 20	1663	416	66	1199
Boiler-flue cutter.....	E. Pember.....	523,370	July 24	2067	520	68	435
Boiler-flue scraper. Automatic.....	P. S. Kingsland and C. C. Hill.....	514,195	Feb. 6	365	87	66	922
Boiler-flues. Machine for lengthening.....	J. Cumming.....	526,688	Oct. 2	26	7	69	8
Boiler-front angle-plate.....	G. Fox.....	520,674	May 29	3022	731	67	1157
Boiler-furnace.....	E. Boileau.....	526,006	Sept. 11	1188	272	68	1380
Boiler-furnace.....	E. Boileau.....	526,363	Sept. 18	1812	429	68	1509
Boiler-furnace.....	W. Brand.....	519,787	May 15	1512	430	67	848
Boiler-furnace.....	W. W. Dean.....	523,808	July 31	2847	707	68	592
Boiler-furnace.....	O. Friederici.....	531,525	Dec. 25	2558	708	69	1730
Boiler-furnace.....	J. Grogan.....	526,485	Sept. 25	2048	612	68	623
Boiler-furnace.....	P. Hodgkinson.....	530,269	Dec. 4	339	83, 84	69	1277
Boiler-furnace.....	J. Lister.....	528,958	Nov. 13	803	189	69	814
Boiler-furnace.....	C. L. Lorraine.....	516,334	Mar. 13	974	231	66	1651
Boiler-furnace.....	W. McClave.....	529,292	Nov. 13	1377	331	69	915
Boiler-furnace.....	Z. E. Moon.....	523,901	July 31	3008	332	68	623
Boiler-furnace.....	W. R. Parks.....	524,296	Aug. 7	554	132	68	761
Boiler-furnace.....	D. S. Richardson.....	529,409	Nov. 20	1599	380	69	977
Boiler furnace and boiler. Steam-	E. D. Meier.....	529,741	Nov. 27	2168	517	69	1089
Boiler-furnace and smoke-consumer.....	R. R. Turner.....	518,870	Apr. 24	2468	612	67	495
Boiler-furnace and steam-generator.....	A. Boyce.....	519,419	May 8	876	212	67	720
Boiler furnace. Locomotive.....	G. H. Watson.....	530,566	Dec. 11	885	217	69	1393
Boiler-furnace. Smokeless.....	P. J. Bode.....	526,289	Sept. 18	1676	218	68	1482
Boiler-furnace. Smokeless.....	E. Healey, R. Williams, and E. Long-meyer.....	522,368	July 3	328	84, 85	68	65
Boiler-furnace. Smokeless.....	M. McCarthy.....	527,532	Oct. 16	1412	343	69	291
Boiler-furnace. Smokeless.....	J. Myerscough.....	522,380	July 3	350	90	68	70
Boiler-furnace. Smokeless.....	W. S. Plummer.....	518,160	Apr. 10	1234	310	67	240
Boiler furnace. Steam.....	W. Beesley.....	513,753	Jan. 30	3382	834	66	770

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Boiler furnace. Steam.....	G. E. Belmor	524,128	Aug. 7	275	64, 65	68	712
Boiler furnace. Steam.....	T. R. Butman	512,536	Jan. 9	1345	{ 324 325 }	66	265
Boiler furnace. Steam.....	J. Goodwin	516,647	Mar. 20	1519	361	66	1768
Boiler furnace. Steam.....	A. J. Hodgson	522,059	June 26	2329	559	67	1672
Boiler furnace. Steam.....	E. R. R. Hoyt	528,229	Oct. 30	2622	634	69	544
Boiler furnace. Steam.....	J. McMillan	519,267	May 1	584	{ 142 143 }	67	651
Boiler furnace. Steam.....	J. Milton	516,974	Mar. 20	2057	{ 486 487 }	66	1869
Boiler furnace. Steam.....	J. Milton	516,975	Mar. 20	2059	487	66	1869
Boiler furnace. Steam.....	O. D. Orvis	521,475	June 19	1301	303	67	1465
Boiler furnace. Steam.....	O. D. Orvis	521,863	June 26	1963	{ 474 475 }	67	1605
Boiler furnace. Steam.....	O. D. Orvis	524,029	Aug. 7	101	22	68	681
Boiler furnace. Steam.....	O. D. Orvis	526,048	Sept. 18	1261	292	68	1406
Boiler furnace. Steam.....	B. Röber	514,497	Feb. 13	874	{ 222 223 }	66	1035
Boiler furnace. Steam.....	C. E. Southard	512,127	Jan. 2	661	158	66	127
Boiler furnace. Steam.....	E. T. White and W. S. Forestell	523,756	July 31	2757	684	68	575
Boiler furnace. Steam.....	H. Wilms	523,824	July 31	2873	{ 713 714 }	68	597
Boiler-heads. Machine for making	I. B. Davis	522,199	July 3	29	8	68	8
Boiler in vertical sections	J. J. Hogan	520,885	June 5	240	{ 55 56 57 }	67	1241
Boiler or other furnace. Steam.....	D. B. Morison	518,762	Apr. 24	2303	572	67	464
Boiler or steam-generator	C. D. Mosher	524,391	Aug. 14	749	{ 182 183 }	68	815
Boiler or steam-generator	C. D. Mosher	525,856	Sept. 11	947	212	68	1336
Boiler-scaling preventives. Water-pressure feeder for	T. B. Smith	526,643	Sept. 25	2287	548	68	1610
Boiler separator. Steam.....	C. Edgerton	526,919	Oct. 2	423	104	69	79
Boiler-setting	C. V. Kerr	525,907	Sept. 11	1028	232	68	1350
Boiler-setting	A. Worthington	524,878	Aug. 21	1553	{ 380 381 }	68	974
Boiler setting. Regenerative.....	G. S. Strong	522,331	July 3	267	70	68	54
Boiler setting. Smokeless	J. W. Bates	519,658	May 8	1299	310	67	794
Boiler setting. Steam.....	W. W. Burk	527,106	Oct. 9	702	172	69	146
Boiler-sput	W. S. Shipe	517,592	Apr. 3	288	67	67	57
Boiler steam-dome	J. J. Hogan	520,883	June 5	236	54	67	1240
Boiler support and wall. Steam.....	G. A. Crane	527,052	Oct. 9	625	152	69	132
Boiler-tester	L. Kaczander	515,231	Feb. 20	2064	514	66	1272
Boiler-tube attachment.....	C. W. Whitney	525,932	Sept. 11	1065	242	68	1357
Boiler-tube cleaner	R. T. Brooke	523,703	July 31	2660	659	68	558
Boiler-tube cleaner	M. C. Henley	518,995	May 1	94	22, 23	67	553
Boiler-tube-cutting device.....	C. O. Thieme	516,459	Mar. 13	1196	286	66	1691
Boiler-tube expander.....	H. Strecker	519,278	May 1	606	147	67	654
Boiler-tube expander and stopper	J. Watson	519,143	May 1	357	85	67	607
Boiler-tube ferrule	H. S. Ross	530,721	Dec. 11	1150	279	69	1438
Boiler-tube joint. Sectional.....	N. W. Pratt	527,883	Oct. 23	2003	480	69	414
Boiler-tube or pipe cleaner.....	H. J. Lawrence and A. E. G. Bromell	529,798	Nov. 27	2259	539	69	1106
Boiler tube-plate. Steam.....	J. Phillips	513,620	Jan. 30	3161	776	66	730
Boiler-tubes. Apparatus for removing incrustation from	D. P. Anthony	525,177	Aug. 28	2110	513	68	1089
Boiler-tubes. Device for cleaning the interiors of.....	W. D. Forsyth and E. T. Bell	526,997	Oct. 2	532	131	69	100
Boiler-tubes. Device for cutting	C. O. Thieme	512,631	Jan. 9	1485	359	66	292
Boiler-tubes, &c. Protecting ends of	H. Wigge	517,372	Mar. 27	2747	646	66	2018
Boiler-tubes. Rake or scraper for cleaning	S. and L. C. Abraham	514,111	Feb. 6	211	48	66	894
Boiler water-alarm	C. A. Hatch	515,827	Mar. 6	157	38	66	1482
Boiler water-alarm. Steam.....	P. A. Kirchner	521,169	June 12	736	174	67	1343
Boiler water-gage. Steam.....	I. M. Mabone	513,649	Jan. 30	3218	790	66	739
Boiler water-regulator	J. W. and H. W. Fox	527,417	Oct. 16	1218	298	69	254
Boilers. Apparatus for inserting, finishing, and securing spouts in	W. S. Shipe	521,825	June 26	1906	457	67	1594
Boilers. Apparatus for supplying feed-water to	G. E. Hudson and G. Sanderson	514,468	Feb. 13	825	209	66	1026
Boilers. Automatic water-feeder for steam.....	J. H. Johnson	529,652	Nov. 20	2015	483	69	1052
Boilers. Bracket-carrier for	H. Vogt	530,811	Dec. 11	1286	311	69	1465
Boilers. Feed-water heater and circulator for	E. Jones	530,420	Dec. 4	599	149	69	1325
Boilers. Manufacture of manholes and stand-pipes for steam.....	W. Malam and W. Schofield	515,598	Feb. 27	2673	664	66	1401
Boilers. Mechanism for flanging manholes of	W. H. Smith	525,474	Sept. 4	265	64, 65	68	1200
Boilers of locomotive type. Fire-box for steam.....	W. Malam	524,902	Aug. 21	1588	389	68	921
Boilers. Oil-injector for steam.....	G. J. Nopper	522,532	July 3	606	155	68	119
Boilers or pipes. Lagging for	C. Ehrlicher	517,850	Apr. 10	719	155	67	153
Boilers. Plug-check for marine or other	J. H. Crosby	530,473	Dec. 4	683	{ 170 171 }	69	1340
Boilers. Plug-check for marine or other	J. H. Crosby	530,474	Dec. 4	684	171	69	1340
Boilers. Sediment-extractor for steam.....	J. E. Thomas	530,137	Dec. 4	101	27	69	1234
Boilers. Water circulating, feeding, and discharging apparatus for steam.....	D. B. Morison	523,915	July 31	3036	{ 755 756 }	68	627
Boilers. Water heating and feeding apparatus for steam.....	W. S. Richardson	513,935	Jan. 30	3687	907	66	831
Bolster frame. Sham.....	H. H. Kuentz	512,886	Jan. 16	1962	466	66	399
Bolster-spring	C. W. Phelps	514,728	Feb. 13	1265	315	66	1109
Bolster-spring	W. H. Weber	524,365	Aug. 14	701	171	68	805
Bolt:							
See Breech-bolt. Nut-locking bolt.							
Door-bolt. Rotary bolt.							
Expansible bolt. Safety-bolt.							
Expansion-bolt. Self-acting bolt.							
Bolt.....	A. Adams	520,227	May 22	2265	551	67	1000
Bolt.....	J. Dunkelacker, Jr.	531,363	Dec. 25	2274	542	69	1675
Bolt.....	W. V. L. Grubb and J. Peeling	513,182	Jan. 23	2418	584	66	555
Bolt.....	W. C. North and S. W. Sessions	519,411	May 8	866	209	67	718
Bolt.....	J. W. Sammis	526,266	Sept. 18	1635	384	68	1475

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Bolt-actuating mechanism. Retarding device for	A. G. Burton	516,362	Mar. 13	1034	246	65	1661
Bolt and nut lock	J. M. Gaston	530,766	Dec. 11	1222	296	69	1452
Bolt-clippers	H. K. Porter	520,896	June 5	262	63	67	1245
Bolt-cutter	W. L. Dutcher	517,848	Apr. 10	716	180	67	153
Bolt-cutter	M. D. Luehrs	517,284	Mar. 27	2599	609	66	1989
Bolt-cutter head	F. W. Bruch and H. P. Eilers	518,222	Apr. 17	1366	341	67	232
Bolt-head and nut finishing machine	C. E. Roberts	521,002	June 5	448	106 107	67	1277
Bolt-heading machine	J. H. Alker	530,076	Dec. 4	1	1, 2	69	1215
Bolt-lock	H. P. Brown	522,287	July 3	197	53	68	40
Bolt or rod cutter	W. March	518,615	Apr. 24	2033	506	67	418
Bolt or screw cap	G. A. Lambert	531,465	Dec. 25	2461	586	69	1711
Bolt-socket	B. Heymanson	518,405	Apr. 17	1684	417	67	341
Bolt-threading machine	C. F. Wieland	520,175	May 22	2178	530 531	67	984
Bolts. Strike-plate for	S. B. Yates	530,316	Dec. 4	422	106	69	1292
Bolts with threaded or gimlet points. Machine for providing	W. R. Wilbur	522,246	July 3	121	29, 30	68	23
Bolting-machine	L. C. Bonnot	522,702	July 10	899	221	68	188
Bolting-machine	C. W. Yost	529,009	Nov. 13	892	210 211	69	828
Bolting-reel	E. R. Draver	528,504	Oct. 30	3101	752	69	629
Bolting-reel cloth-fastening device	J. Warrington	515,509	Feb. 27	2527	626	66	1371
Bone and vegetable matter. Machine for comminuting	E. J. Roche	531,426	Dec. 25	2377	568 569	69	1696
Bone-black. Apparatus for decarbonizing and re-vivifying	M. Weinrich	530,632	Dec. 11	994	244	69	1413
Bone-black kiln	J. T. Trory	523,248	July 17	1868	469	68	382
Bone-cutter	E. J. Roche	516,510	Mar. 13	1226	305	66	1707
Bone-cutting machine	A. H. Chapman	527,709	Oct. 23	1795	433	69	379
Bone-cutting machine	C. H. Farrington	517,003	Mar. 20	2103	497 498	66	1877
Bone-cutting machine	F. W. Mann	523,771	July 31	2781	691	68	579
Book	A. C. Nisson	515,872	Mar. 6	222	52	66	1495
Book. Ancestral-record	F. W. Bailey	527,261	Oct. 9	955	232	69	192
Book and index. Combined	T. K. Brownell	512,943	Jan. 16	2058	488	66	415
Book back or cover	E. Frith	529,614	Nov. 20	1961	466 467	69	1043
Book-backs. Apparatus for marking divisions on	H. M. Refsum	516,972	Mar. 20	2064	488	66	1870
Book-backs. Embossing	A. Krah	515,051	Feb. 20	1771	446 447	66	1218
Book-backing machine	A. L. Garver	519,997	May 15	1847	451 452	67	909
Bookbinder. Temporary	T. Maus	522,267	July 3	165	43, 44 109	68	33
Bookbinding-strips. Machine for applying	J. I. Knight	522,423	July 3	427	110 111 112	68	85
Book. Business instruction and practice	C. L. Ellis	514,619	Feb. 13	1078	269	66	1074
Book-carrier	H. Tollner	530,291	Dec. 4	382	94	69	1285
Bookcase	F. H. Sheridan	516,774	Mar. 20	1730	407	66	1805
Bookcase and display-cabinet. Revolving	R. H. Ober	514,270	Feb. 6	507	125	66	949
Book. Check	I. B. Alter	517,323	Mar. 27	2668	626	66	2002
Book. Check	E. D. Middlekauff and A. N. Aitken	526,787	Oct. 2	198	46	69	38
Book. Check	R. W. Morgan	521,727	June 19	1729	411	67	1545
Book. Check or voucher	D. A. McIntyre	523,000	July 17	1422	355	68	300
Book. Check, receipt, or other stub	H. Loevenbach	519,769	May 15	1475	357	67	840
Book-cover	H. K. Greble	521,539	June 19	1413	327	67	1485
Book-cover	W. Thompson	520,171	May 22	2171	529	67	983
Book-cover. Adjustable locking	M. W. Cummings and T. F. Jordan	522,152	June 26	2492	597	67	1703
Book-cover. Detachable	J. S. McDonald, Jr.	513,814	Jan. 30	3470	855	66	787
Book-covers. Machine for making	C. J. and A. E. Coles, J. C. Smith, W. Jamieson, and A. I. Jacobs.	513,453	Jan. 23	2857	701 702 703	66	639
Book. Duplicating cash or receipt	E. E. Garrett	521,879	June 26	1987	480	67	1610
Book. Duplicating check	J. Oldfield	517,359	Mar. 27	2725	640 641	66	2014
Book. Duplicating order	E. D. Gibbs	518,400	Apr. 17	1675	414	67	339
Book. Flat-opening	W. A. Palmer	528,340	Oct. 30	2816	681	69	578
Book-holder	A. A. Ambler	520,627	May 29	2924	707 708	67	1140
Book-holder	B. I. Gilman	529,442	Nov. 20	1668	397	69	990
Book-holder	J. C. Gooding	515,209	Feb. 20	2023	505	66	1265
Book-holder for desks	G. W. Paisley	528,488	Oct. 30	3074	746	69	625
Book-holder for reading-stands	F. J. Anderson and W. M. Erick	524,926	Aug. 21	1643	402	68	990
Book-holder, index, and writing-tablet. Combined	C. F. Johnson	527,114	Oct. 9	717	175	69	148
Book holder. Open	L. L. D. Elderkin	527,524	Oct. 16	1400	341	69	288
Book. Indexed	E. Lefebvre, Jr.	512,724	Jan. 16	1646	395	60	338
Bookkeeping. System of	W. Himrod	521,882	June 26	1993	481	67	1611
Book-leaf holder	J. Meyer	519,540	May 8	1101	264	67	760
Book-mark	P. J. Platt	512,747	Jan. 16	1695	405	66	347
Book. Memorandum-sales-slip	W. M. Kinnard	514,937	Feb. 20	1591	400	66	1186
Book. Mercantile check and advertising	J. McKinley	513,436	Jan. 23	2817	692	66	632
Book. Mileage	W. Boll	514,538	Feb. 13	936	237	66	1047
Book or paper hanger	S. F. Milliron	520,856	June 5	188	41	67	1231
Book. Order	J. P. Brownlee	522,963	July 17	1360	337	68	289
Book-rack	G. W. Parker	518,573	Apr. 17	1967	486	67	390
Book-rack. Sample	J. Reading	527,809	Oct. 23	1864	448	69	391
Book-rest and table or stand. Combination	B. V. Fitzhugh	518,594	Apr. 24	2004	497	67	413
Book-rest for hotel-registers	C. A. Thompson and O. G. Emshivel-ler.	521,488	June 19	1327	309	67	1470
Book-stack for libraries	B. R. Green. (Reissue)	11,401	Jan. 30	3715	915	66	837
Book-stapling machine	E. T. Greenfield	520,734	May 29	3112	754	67	1174
Book-stapling machine	J. T. O. Orloff	512,741	Jan. 16	1670	401	66	343
Book-support	G. Stikeman	527,897	Oct. 23	2027	487	69	420

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Book-support	C. L. Work	517,255	Mar. 27	2556	599	66	1981
Book-support and leaf-holder	J. M. Lloyd	513,402	Jan. 23	2770	676	66	622
Book. Wall	J. B. Nash	517,123	Mar. 27	2334	549	66	1938
Books and carbon-sheets. Holder for manifold	J. S. McDonald	522,237	July 3	89	21	68	18
Books. Blotter attachment for check	M. R. Toland and J. F. Conkey	526,121	Sept. 18	1392	324	68	1429
Books. Cover for memorandum-sales-slip	W. M. Kinnard	526,397	Sept. 25	1884	448	68	1536
Boom for holding and towing logs or timbers	W. F. Stevens	525,122	Aug. 28	2004	490	68	1072
Bootjack	C. Bisanz	530,080	Dec. 4	7	3	69	1216
Bootjack attachment	W. H. Cole	528,363	Oct. 30	2857	692	69	585
Boot or leggin for ladies or children. Rain	E. A. Bailey	529,352	Nov. 20	1481	356	69	957
Boot or shoe	S. Annenberg and E. Stahl	518,579	Apr. 24	1985	491	67	409
Boot or shoe	H. Briggs and C. Dancel	525,974	Sept. 11	1142	259	68	1372
Boot or shoe	A. A. Collins	524,886	Aug. 21	1567	383	68	977
Boot or shoe	O. P. Hurd	528,724	Nov. 6	349	85	69	710
Boot or shoe	J. M. Thompson	512,412	Jan. 9	1134	275	66	226
Boot or shoe	E. A. Thurston	524,620	Aug. 14	1126	277	68	885
Boot or shoe and making same. Waterproof	C. W. Shippee	529,880	Nov. 27	2402	575	69	1134
Boot or shoe attachment	J. H. Johnson	523,578	July 24	2430	610	68	500
Boot or shoe nailing machine	F. D. Locke	520,437	May 29	2611	632	67	1082
Boot or shoe polishing device	E. Stanwood	528,349	Oct. 30	2827	683	69	579
Boot or shoe polishing machine	E. O. Bicknell	526,361	Sept. 18	1807	428	68	1509
Boot or shoe polishing machine	E. O. Bicknell	526,362	Sept. 18	1810	428	68	1509
Boot or shoe shank buffer	G. Therrien	529,510	Nov. 20	1797	428	69	1012
Boot or shoe sole cutting machine	H. B. Steele	524,286	Aug. 7	529	124	68	757
Boot or shoe soles. Cutter for trimming	J. J. Mabray	530,699	Dec. 11	1112	270	69	1432
Boot or shoe stretcher	R. T. Bear	515,857	Mar. 6	202	48	66	1490
Boot or shoe stretcher	L. B. Cobb	517,210	Mar. 27	2484	584	66	1967
Boot or shoe upper packing machine	F. L. Conant	513,763	Jan. 30	3394	837	66	772
Boot or shoe uppers. Machine for creasing	G. Knight	518,410	Apr. 17	1690	419	67	342
Boot or shoe. Waterproof	C. W. Shippee	529,881	Nov. 27	2403	575	69	1134
Boot protector. Lady's	H. J. Wescott	519,053	May 1	185	44	67	572
Boot. Quarter	T. Morgan	524,555	Aug. 14	1020	251	68	865
Boot. Soaking	M. N. Rogers	519,047	May 1	176	42	67	570
Boot-tree	H. L. Lee	523,535	July 24	2365	594	68	488
Boot-tree	J. Macdonald	522,069	June 26	2346	564	67	1675
Boot-tree	G. H. Stephens	519,877	May 15	1655	402	67	874
Boot-tree	W. J. Yapp	525,934	Sept. 11	1068	243	68	1357
Boot-tree clasp	A. D. Warner	513,253	Jan. 23	2545	612	66	579
Boot-treeing machine	C. L. Heisler	512,193	Jan. 2	771	188	66	146
Boot. Wool or felt	J. Pendergast	527,717	Oct. 16	1705	411	69	345
Boots or shoes. Machine for splitting insoles for	F. L. Stone	527,299	Oct. 9	1021	248	69	204
Boots or shoes. Means for attaching india-rubber, &c., to the soles of	H. Menier	522,477	July 3	518	131	68	103
Booth. Portable	J. W. Ernest	523,141	July 17	1676	419	68	348
Borer with diamond bit. Rotary	F. J. G. Fromholt	530,408	Dec. 4	579	144	69	1321
Boring and mortising machine. Portable	E. K. Thoden	513,348	Jan. 23	2681	650	66	606
Boring-bit	A. A. Bourgeois	521,430	June 12	1201	285	67	1430
Boring-bit	E. C. Phillips	524,052	Aug. 21	1676	410	68	996
Boring-brace	G. D. Strayer	512,237	Jan. 2	839	203	66	159
Boring frames to be caned. Machine for	K. F. G. Maier	514,762	Feb. 13	1314	327	66	1119
Boring-machine	H. W. Crane	513,088	Jan. 23	2265	547	66	523
Boring-machine	A. Frazer	524,138	Aug. 7	295	69	68	716
Boring-machine	C. W. Meggenhofen and A. S. Court-right	518,262	Apr. 17	1426	356	67	292
Boring-machine	J. Miner	518,195	Apr. 10	1311	328	67	237
Boring-machine	G. W. Pringle and W. Brodie	526,198	Sept. 18	1527	358	68	1453
Boring-machine	N. N. Riddell	529,506	Nov. 20	1784	425	69	1009
Boring-machine	H. C. Schulz	528,307	Oct. 30	2765	668	69	569
Boring-machine	B. D. Whitney	514,579	Feb. 13	1002	253	66	1059
Boring-machine. Multiple	C. Cristadoro	529,712	Nov. 27	2118	508	69	1081
Boring-mill	C. L. Libby	514,719	Feb. 13	1247	310	66	1106
Boring or drilling machine	W. S. Sherman	515,506	Feb. 27	2322	625	66	1371
Boring or drilling tools. Composition for	O. Terp	515,698	Feb. 27	2840	707	66	1434
Boring-tool	C. E. Blue	524,375	Aug. 14	719	175	68	809
Boring-tool	F. H. Richards	525,116	Aug. 28	1993	487	68	1070
Borings at bottom of deep waters and in tideways. Means for making	A. W. Palmer	525,795	Sept. 11	822	187	68	1314
Bosh-plate. Combination	W. Rothhoff	515,694	Feb. 27	2834	705	66	1432
Bottle	H. A. Bierley	523,956	July 31	3118	776	68	644
Bottle	F. E. Blaisdell	525,128	Aug. 28	2011	491	68	1073
Bottle	F. E. Blaisdell	525,129	Aug. 28	2012	492	68	1073
Bottle	C. Clark	521,636	June 19	1579	369	67	1515
Bottle	J. L. Friedman and J. W. Keiler	517,800	Apr. 3	641	160	67	125
Bottle, &c.	H. R. Harper	512,374	Jan. 9	1061	259	66	212
Bottle	H. A. Hayden	525,543	Sept. 4	383	93	68	1222
Bottle	S. Howes	527,494	Oct. 16	1343	327	69	280
Bottle	F. H. Hutchinson	518,606	Apr. 24	2021	502	67	415
Bottle, &c.	D. E. Kempster	528,544	Nov. 6	36	9	69	653
Bottle	G. F. Kinney	530,429	Dec. 4	612	152	69	1327
Bottle	W. B. and W. H. Rand	520,219	May 22	2256	540	67	999
Bottle	E. C. Shumard	530,288	Dec. 4	379	93	69	1284
Bottle	C. H. Van Wie	529,762	Nov. 27	2203	525	69	1095
Bottle	W. Von Bokern	524,694	Aug. 14	1244	307	68	906
Bottle	W. Von Bokern	529,821	Nov. 27	2309	550	69	1116
Bottle	J. Walton	525,570	Sept. 4	426	102	68	1230

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Bottle.....	R. B. Yerby.....	516,006	Mar. 6	441	101	66	1534
Bottle and stopper therefor.....	G. B. Barnes.....	526,674	Oct. 2	7	2	69	4
Bottle. Barber's.....	J. B. Edmunds.....	517,849	Apr. 10	717	181	67	153
Bottle-cap. Cork-holding.....	W. H. Northall.....	528,380	Oct. 30	2884	698	69	590
Bottle-capping apparatus.....	N. B. Abbott and H. Rau.....	521,751	June 19	1785	{ 423 204	67	1554
Bottle-capping machine.....	A. L. Bernardin.....	527,193	Oct. 9	837	204	69	171
Bottle-capping machine.....	F. M. Leavitt.....	527,209	Oct. 9	863	{ 210 211	69	176
Bottle-capping machine.....	G. W. Lebolt.....	528,329	Oct. 30	2798	675	69	574
Bottle-case.....	J. H. Nellis.....	516,218	Mar. 13	792	185	66	1616
Bottle-closing device.....	W. W. Dixon.....	524,632	Aug. 14	1144	281	68	889
Bottle-closing device.....	R. Herz.....	515,472	Feb. 27	2475	612	66	1362
Bottle-closing device.....	A. W. Schroedter.....	526,329	Sept. 18	1749	415	68	1498
Bottle-closing device.....	R. A. Wittemann.....	519,827	May 15	1570	384	67	859
Bottle-closure.....	R. Flanigan.....	521,728	June 26	1847	440	67	1582
Bottle. Composite.....	A. Dryfoos.....	519,601	May 8	1201	290	67	778
Bottle-corking apparatus.....	E. J. Boyd.....	527,477	Oct. 16	1323	322	69	276
Bottle-corking machine.....	A. A. Pindstoffe.....	525,279	Aug. 28	2263	551	68	1120
Bottle-corking machine.....	S. B. Smallwood.....	523,015	July 17	1448	{ 361 362	68	305
Bottle-corking machine.....	A. Tagliabue.....	522,808	July 10	1099	271	68	223
Bottle cover or cap.....	A. Assorati.....	515,069	Feb. 20	1797	454	66	1223
Bottle. Drenching.....	J. T. Turner.....	529,978	Nov. 27	2572	620	69	1165
Bottle-elevating device.....	F. McLaughlin.....	522,693	July 10	884	218	68	186
Bottle-filling apparatus.....	C. W. Clayton.....	523,973	Aug. 7	8	3	68	664
Bottle-filling apparatus.....	S. B. Smallwood.....	523,014	July 17	1445	361	68	304
Bottle-filling machine.....	S. B. Smallwood.....	523,013	July 17	1441	{ 360 361	68	303
Bottle-filling machine.....	S. B. Smallwood.....	523,016	July 17	1455	362	68	306
Bottle-forming machine.....	R. T. Beckett.....	529,693	Nov. 27	2088	{ 499 500	69	1076
Bottle-guard.....	C. M. Boscowitz.....	529,317	Nov. 13	1426	343	69	926
Bottle-holder.....	V. V. Bacon.....	517,833	Apr. 10	688	172	67	148
Bottle lock-stopper.....	J. A. Shephard.....	516,027	Mar. 6	478	111	66	1541
Bottle-mouths. Stopper or cover for.....	T. B. Birnbaum.....	524,159	Aug. 7	333	79	68	722
Bottle. Mucilage.....	E. Terry.....	519,051	May 1	182	43	67	571
Bottle. Non-filling.....	H. I. Leith.....	529,035	Nov. 13	924	219	69	834
Bottle-neck.....	L. A. Pells and L. Steiner.....	523,728	July 31	2707	670	68	566
Bottle. Nursing.....	W. M. Decker.....	521,773	June 19	1827	435	67	1561
Bottle. Nursing.....	H. Herrmann.....	527,284	Oct. 9	998	242	69	200
Bottle. Nursing.....	R. Turck.....	514,974	Feb. 20	1652	413	66	1197
Bottle. Nursing.....	E. H. Turner.....	514,575	Feb. 13	997	251	66	1059
Bottle opener. Capped.....	W. Painter.....	514,200	Feb. 6	336	92	66	926
Bottle or can case.....	J. H. Nellis.....	520,007	May 15	1862	455	67	912
Bottle or jar closure.....	R. M. Howe.....	518,953	May 1	26	7	67	541
Bottle or vessel holding device.....	F. G. Kammerer.....	527,334	Oct. 9	1076	260	69	214
Bottle-packing case.....	W. P. Lowrie, R. Barr, and G. Scott.....	523,673	July 31	2603	649	68	548
Bottle-packing wrapper.....	J. T. Ferris.....	515,668	Feb. 27	2783	693	66	1423
Bottle. Prescription.....	C. D. Dickerson.....	526,772	Oct. 2	174	41	69	33
Bottle-protector.....	R. T. Davison.....	512,812	Jan. 16	1830	433	66	373
Bottle-rack.....	J. E. Goerger.....	526,309	Sept. 18	1716	{ 404 405	68	1492
Bottle safety closing device.....	R. P. de Sennevoy.....	523,153	July 17	1693	424	68	351
Bottle-sealing and stopper-retaining device.....	N. B. Abbott.....	521,752	June 19	1787	424	67	1554
Bottle-sealing device.....	J. S. Detrick.....	524,690	Aug. 21	1571	384	68	978
Bottle. Self-sealing.....	H. P. Roberts.....	525,364	Sept. 4	77	21	68	1165
Bottle-shaping implement.....	A. L. Straus.....	512,409	Jan. 9	1130	273	66	225
Bottle. Siphon.....	J. Mersereau.....	523,727	July 31	2706	670	68	565
Bottle-stopper.....	O. G. Ahlstrom.....	523,449	July 24	2212	556	68	400
Bottle-stopper.....	B. Boley.....	521,779	June 26	1838	438	67	1580
Bottle-stopper.....	C. N. Brisco.....	525,863	Sept. 11	997	225	68	1345
Bottle-stopper.....	C. H. Davis.....	513,674	Jan. 30	3255	799	66	746
Bottle-stopper.....	C. De Witt.....	527,672	Oct. 16	1633	394	69	331
Bottle-stopper.....	J. C. Gout.....	521,649	June 19	1598	374	67	1519
Bottle-stopper.....	C. Huch.....	512,652	Jan. 9	1534	388	66	302
Bottle-stopper.....	C. Huch.....	516,488	Mar. 13	1243	298	65	1700
Bottle-stopper.....	P. M. T. Imbaud.....	519,910	May 15	1702	415	67	884
Bottle-stopper.....	L. Kalling.....	523,474	July 24	2262	569	68	468
Bottle-stopper.....	L. Kalling.....	523,475	July 24	2263	569	68	468
Bottle-stopper.....	G. L. Mathews.....	521,473	June 19	1297	302	67	1464
Bottle-stopper.....	G. L. Mathews.....	526,247	Sept. 18	1608	377	68	1469
Bottle-stopper.....	C. F. Möller.....	517,958	Apr. 10	901	225	67	185
Bottle-stopper.....	C. O. Niendorf.....	524,971	Aug. 21	1708	419	68	1002
Bottle-stopper.....	G. S. Norris.....	516,726	Mar. 20	1661	394	66	1793
Bottle-stopper.....	F. W. Palmer.....	523,918	July 31	3042	757	68	629
Bottle-stopper.....	J. Roginger.....	525,470	Sept. 4	259	63	68	1199
Bottle-stopper.....	J. Rosenfeld and S. W. Mackey.....	525,286	Aug. 28	2272	553	68	1122
Bottle-stopper.....	A. Schneider and D. W. Bromley.....	527,726	Oct. 16	1722	416	69	348
Bottle-stopper.....	C. B. Schoenmehl.....	524,096	Aug. 7	212	49	68	700
Bottle-stopper.....	C. B. Schoenmehl.....	527,161	Oct. 9	791	193	69	162
Bottle-stopper.....	C. and B. Schramm.....	519,777	May 15	1490	361	67	843
Bottle-stopper.....	T. Schwer.....	515,723	Feb. 27	2876	717	66	1440
Bottle-stopper.....	C. B. Sheldon.....	529,813	Nov. 27	2290	546	69	1111
Bottle-stopper.....	F. T. Smith.....	512,126	Jan. 2	660	158	66	127
Bottle-stopper.....	W. B. Stevens.....	519,510	May 8	1026	248	67	746
Bottle-stopper.....	A. Stutzer and J. Schäfer.....	515,626	Feb. 27	2718	677	66	1410
Bottle-stopper.....	F. B. Thatcher.....	517,968	Apr. 10	915	229	67	167
Bottle stopper and filler. Combined.....	I. Pomeroy.....	531,133	Dec. 18	1849	438	69	1582
Bottle-stopper and ink-filler.....	R. G. Hopkins.....	515,587	Feb. 27	2657	659	66	1398
Bottle-stopper and syringe. Combined.....	W. F. Ware.....	526,880	Oct. 2	350	87	69	66
Bottle-stopper and vent combined.....	M. L. Bergman.....	523,967	Aug. 7	2	1	68	663
Bottle stopper. Mucilage.....	J. S. Blinn.....	513,608	Jan. 30	3140	771	66	726
Bottle stopper or cap.....	F. W. Fletcher.....	528,470	Oct. 30	3046	739	69	619
Bottle-stopper. Valve.....	J. H. Gault and C. F. Schrader.....	522,203	July 3	34	9	68	9

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Bottle-stopper. Valve	N. F. T. Hunt	515,879	Mar. 6	229	54	66	1496
Bottle-stoppers. Machine for feeding crown	N. Muslar	531,001	Dec. 18	1607	382	69	1538
Bottle-stopple	H. C. F. E. Snowman	518,081	Apr. 10	1104	279	67	217
Bottle-support. Nursing	F. H. Lowerre	530,435	Dec. 4	622	155	69	1329
Bottle-washer	F. E. Anderson	524,053	Aug. 7	136	31	68	687
Bottle-washer	M. E. Donally	525,139	Aug. 28	2038	498	68	1078
Bottle-washer	A. F. and A. C. Dumke	530,583	Dec. 11	913	224	69	1398
Bottle-washer	J. P. Grünig	513,502	Jan. 30	2955	727	66	692
Bottle-washer	C. Hnether and J. E. Gross	513,640	Jan. 30	3195	723	66	736
Bottle-washer	H. La Casse	518,322	Apr. 17	1526	380 381	67	311
Bottle-washer	H. Portevin	514,334	Feb. 6	615	156 157	66	968
Bottle-washer	W. J. Smealie	515,556	Feb. 27	2610	647	66	1388
Bottle-washer	T. Wendling	526,277	Sept. 18	1651	390	68	1478
Bottle-washer	A. R. Wiens	529,823	Nov. 27	2311	550	69	1147
Bottle-wrapper	T. F. W. Schmidt	515,721	Feb. 27	2874	717	66	1410
Bottle-wrapper	T. F. W. Schmidt	524,219	Aug. 7	430	102	68	740
Bottles, &c. Antifilling device for	E. S. Reed and A. J. Stoops	520,831	June 5	138	30	67	1222
Bottles. Device for preventing refilling of	W. L. Davis and E. F. Leach	527,777	Oct. 23	1809	436	69	381
Bottles. Device for preventing refilling of	F. W. Johnson	527,992	Oct. 23	2219	555	69	455
Bottles. Device to prevent fraudulent filling of	N. W. Crandall and E. A. Russell	522,405	July 3	400	102	68	79
Bottles, jars, &c. Device for closing	A. Lasch	520,854	June 5	187	41	67	1230
Bottles, jars, &c. Stopper for	P. H. Holmes	512,705	Jan. 16	1618	389	66	333
Bottles, jars, &c. Stopper for	J. J. Varley	525,370	Sept. 4	89	23	68	1167
Bottles. Machine for removing tin-foil from	E. Rantz	518,275	Apr. 17	1448	362	67	298
Bottles. Machine for siruping and filling siphon	T. Ferguson	526,861	Oct. 2	320	79	69	61
Bottles. Machine for washing and removing labels from	H. W. Wills	525,377	Sept. 4	103	26	68	1169
Bottles. Machine for wiring corks in	G. C. Coon	512,281	Jan. 9	910	221 222	66	184
Bottles. Manufacture of	R. S. Wiesenfeld	512,137	Jan. 2	677	162	66	129
Bottles or other glass articles. Apparatus for the manufacture of	J. B. Vernay	523,607	July 24	2472	621	68	507
Bottling apparatus	D. Doyle	526,773	Oct. 2	175	41	69	33
Bottling apparatus	A. A. Pindstoffe	526,086	Sept. 18	1331	309	68	1418
Bottling-machine	W. Jr., and S. C. Childs	512,432	Jan. 9	1175	285	66	234
Bottling-machine	M. P. Heddy	519,060	May 1	197	46, 47	67	574
Bottling-machine	R. Kolliker	518,527	Apr. 17	1892	469	67	377
Bottling-machine	E. Stahl	525,869	Sept. 11	976	218 219	68	1341
Bottling-machine	A. Werner	526,595	Sept. 25	2208	528	68	1595
Bottling-machine	H. Wuelfing	523,392	July 24	2101	527 528	68	442
Bouquet-holder	A. L. Marston	522,910	July 10	1257	310	68	253
Bouquet-holder	A. Mente	520,650	May 29	2960	716	67	1146
Bouquet holder. Buttonhole	G. E. Wells	512,779	Jan. 16	1774	421	66	363
Bowl or washbasin. Set	S. P. Crosswell	514,214	Feb. 6	417	101	66	930
Bowling-alley	A. B. Crounse	513,988	Feb. 6	26	6	66	859
Bowling-alley	M. Knollmüller	529,392	Nov. 20	1572	374	69	972
Bowling-alley	W. H. Wiggins and T. H. Vanderhoef	525,172	Aug. 28	2105	512	68	1088
Bowling-ball	F. G. Dokkenwadel	531,103	Dec. 18	1789	426	69	1570
Box:							
See Advertising match-box.	Hat-box.						
Alarm-box.	Knockdown box.						
Annealing-box.	Letter-box.						
Axle-box.	Loan-box.						
Ballot-box.	Locking-box.						
Bicycle tool-box.	Lunch-box.						
Bread or cake box.	Mail-box.						
Butter-box.	Miter-box.						
Call-box.	Music-box.						
Car sand-box.	Packing-box.						
Cash-box.	Paper box.						
Cigar-box.	Paper match-box.						
Clothes-pin box.	Powder-box.						
Cock-box.	Self-fastening box.						
Collapsible box.	Sheet-metal box.						
Dice-box.	Shipping-box.						
Display-box.	Shipping or service box.						
Electric distribution-box.	Signal-box.						
Electric-switch box.	Spool-box.						
Fare-box.	Stuffing-box.						
Feed-box.	Tobacco-box.						
Fire-alarm box.	Tooth-powder box.						
Flower-box.	Toy money-box.						
Fruit or berry box.	Twine-box.						
	Whist-box.						
	Work-box.						
Box	T. Drummond	521,156	June 12	720	169	67	1341
Box	A. M. Galland	528,935	Nov. 13	766	180	69	807
Box	S. E. Hurlbut	519,578	May 8	1164	280	67	771
Box	Z. B. Webb	531,083	Dec. 18	1752	418	69	1564
Box-binding implement	J. R. Burkholder	523,971	Aug. 7	6	2	68	664
Box-binding machine	A. A. Wood	527,574	Oct. 16	1472	359 360	69	302
Box-blanks. Machine for cornering	A. L. Kingsbury	530,780	Dec. 11	1246	301 302	69	1458
Box-blanks. Machine for forming	J. T. Robinson and H. J. Chamberlain	516,709	Mar. 20	1623	387	66	1787
Box-blanks. Machine for making	T. L. Knudtson and J. Uhl	518,038	Apr. 10	1033	261 262 263 264 265	67	207
Box-blocking machine	C. Cristadoro	519,035	May 1	157	37, 38	67	566

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Box-blocking machine.....	J. Hande.....	521,025	June 5	483	115	67	1284
Box-closure.....	R. W. Johnson.....	515,865	Mar. 6	212	50	66	1493
Box-corner binder.....	A. A. Wood.....	527,308	Oct. 9	1038	252	69	207
Box-corner binding.....	A. A. Wood.....	515,310	Feb. 20	2200	545	66	1299
Box-cover. Adjustable.....	G. W. Stoker.....	518,554	Apr. 17	1932	477	67	384
Box-cover. Removable.....	D. Cree.....	514,144	Feb. 6	268	66	66	904
Box-covering machine.....	J. Weber.....	527,913	Oct. 23	2056	493	69	425
Box-fastener.....	E. A. Beck.....	527,043	Oct. 9	613	148	69	130
Box-fastener.....	W. T. Cottier.....	511,933	Jan. 2	352	82	66	67
Box-fastener.....	J. Davy.....	514,416	Feb. 6	728	185	66	991
Box-fastener.....	A. W. Jones.....	526,491	Sept. 25	2057	489	68	1566
Box-fastener.....	L. Leber.....	523,434	July 24	2177	549	68	455
Box-fastener.....	A. Ottenheimer.....	512,517	Jan. 9	1321	319	66	261
Box-fastener.....	D. E. J. Wellhoener.....	524,876	Aug. 21	1549	379	68	974
Box-fastening.....	N. Nilsson.....	515,156	Feb. 20	1938	485	66	1249
Box-fastening.....	E. F. Tubach.....	512,766	Jan. 16	1756	416	68	359
Box for cigars or other articles.....	J. Frazee.....	512,609	Jan. 9	1453	351	66	286
Box for pattern or other cards.....	C. F. G. R. Schwerdt.....	516,452	Mar. 13	1184	284	66	1689
Box-lid holder.....	W. W. Fowler.....	527,274	Oct. 9	986	239	69	197
Box-lifter.....	H. Eddishaw.....	525,949	Sept. 11	1687	248	68	1361
Box-machine.....	C. B. Southard.....	521,224	June 12	839	{ 196 197 }	67	1362
Box-machine.....	A. Kingsbury.....	515,341	Feb. 27	2262	561	66	1322
Box-nailing machine.....	W. S. Deig.....	518,002	Apr. 10	982	{ 244 245 }	67	198
Box or package.....	G. P. Cato, Jr.....	529,033	Nov. 13	922	219	69	834
Box or coop. Convertible.....	G. Bernhard.....	512,599	Jan. 9	1439	347	66	283
Box or drawer.....	J. S. Bennett.....	512,091	Jan. 2	605	145	66	116
Box-partition.....	J. M. Leaver.....	517,007	Mar. 20	2111	499	66	1879
Box-pile.....	A. H. Moore.....	520,487	May 29	2700	654	67	1098
Box-shaping machine.....	G. Patureau.....	513,528	Jan. 30	3002	{ 740 741 742 743 }	66	701
Box-strap.....	J. A. Bowler.....	522,875	July 10	1189	296	68	241
Box-strap.....	V. Schmelz.....	522,354	July 3	305	78	68	61
Box-strap and corner-iron.....	R. C. Snowden.....	513,210	Jan. 23	2458	594	66	562
Box-top.....	L. Miller.....	525,917	Sept. 11	1046	237	68	1353
Box wiring or hooping machine.....	E. A. Cooley.....	529,247	Nov. 13	1299	312	69	901
Boxes, &c. Adjustable partition for packing.....	J. V. Coleman.....	524,163	Aug. 7	338	80	68	723
Boxes, &c. Corner-stay for.....	H. G. and C. B. Alexander.....	529,057	Nov. 13	967	228	69	842
Boxes. Machine for manufacturing.....	R. Schleicher.....	515,026	Feb. 20	1732	437	66	1211
Boxes. Opener and handle for shoe-polish or other.....	J. F. Smith.....	514,285	Feb. 6	534	131	66	953
Boxes or plates. Machine for manufacturing.....	M. Eschenbeck.....	527,146	Oct. 9	768	{ 187 188 }	69	157
Brace:							
See Back-brace. Door-brace.							
Bed-brace. Gage-brace.							
Bedstead-brace. Shoulder-brace.							
Boring-brace. Vehicle-brace.							
Corner-brace.							
Brace and bit.....	J. W. Banner.....	528,137	Oct. 30	2473	598	69	516
Brace-and-bit gage.....	C. Whitus, J. W. Wilks, and N. J. Whitus.	521,997	June 26	2237	537	67	1655
Brace-drill.....	E. E. Anthony.....	521,327	June 12	1020	240	67	1395
Brace for boring holes, &c.....	S. McClellan.....	514,660	Feb. 13	1142	285	66	1026
Bracket:							
See Adjustable bracket. Shade-roller bracket.							
Car-door bracket. Shelf-bracket.							
Corner-bracket. Shingle-bracket.							
Curtain-bracket. Staging-bracket.							
Dental bracket. Trolley and feed wire							
Inkstand-bracket. bracket.							
Lamp-bracket. Trolley-wire bracket.							
Shade-bracket.							
Bracket.....	J. R. Barry.....	522,283	July 3	191	52	68	39
Bracket.....	W. D. Gridley.....	520,564	May 29	2827	682	67	1122
Bracket and card-holder.....	F. J. McArdle and J. B. Furay.....	518,326	Apr. 17	1535	382	67	312
Bracket or rest for work-benches, &c.....	A. Griesemer.....	525,014	Aug. 28	1805	440	68	1037
Braid.....	G. Quambusch.....	513,278	Jan. 23	2583	625	66	587
Braiding-machine.....	J. Drnek.....	521,019	June 5	474	113	67	1282
Braiding-machine.....	J. McCahey.....	522,481	July 3	524	133	68	104
Braiding-machine spool-holder.....	W. Mundt.....	520,655	May 29	2966	718	67	1148
Brake:							
See Air-brake. Hay-frame brake.							
Automatic brake. Ink-roller brake.							
Bicycle-brake. Locomotive-brake.							
Bicycle-wheel brake. Pneumatic brake.							
Car-brake. Pressure-brake.							
Car air-brake. Rail-brake.							
Car and air brake. Railway-brake.							
Car-grip slot-brake. Safety-brake.							
Carriage-brake. Sulky-brake.							
Differential brake. Train-brake.							
Elevator-brake. Vacuum-brake.							
Elevator safety-brake. Vehicle-brake.							
Engine-brake. Vehicle band-brake.							
Fly-wheel band-brake. Velocipede-brake.							
Friction-brake. Vessel-brake.							
Windmill-brake.							
Brake.....	H. Büssing.....	516,912	Mar. 20	1955	{ 460 461 }	66	1849
Brake.....	H. Kleiman.....	514,940	Feb. 20	1597	401	66	1187
Brake.....	C. C. Osgord.....	528,019	Oct. 23	2261	{ 545 546 }	69	462

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Brake.....	W. Schmid.....	516,122	Mar. 6	620	145	66	1568
Brake.....	F. D. Verran.....	522,682	July 10	868	215	68	183
Brake-actuating mechanism.....	T. Conway.....	517,112	Mar. 27	2317	{ 545 546 }	66	1935
Brake apparatus. Fluid-pressure.....	J. K. Lencke.....	517,953	Apr. 10	885	{ 221 222 }	67	183
Brake apparatus. Vacuum automatic.....	J. Gresham.....	516,863	Mar. 20	1873	443	66	1834
Brake beam.....	D. L. Barnes.....	528,522	Nov. 6	2	1, 2	69	647
Brake-beam.....	G. W. Ettenger.....	515,666	Feb. 27	2780	{ 692 693 }	66	1422
Brake-beam.....	C. B. King.....	513,942	Jan. 30	3668	903	66	827
Brake-beam.....	C. T. Schoen.....	522,032	June 26	2290	548	67	1664
Brake-beam and reinforcing-clamp therefor.....	H. B. Robischung.....	528,238	Oct. 30	2647	638	69	547
Brake-beams. Finger-guard clamp for.....	H. B. Robischung.....	527,159	Oct. 9	789	193	69	161
Brake for cycles or other wheeled vehicles.....	R. S. Erskine.....	514,819	Feb. 13	1402	{ 353 354 }	66	1136
Brake-handle.....	P. G. Emery.....	531,612	Dec. 25	2703	648	69	1759
Brake-handle.....	J. W. Paterson.....	531,596	Dec. 25	2675	643	69	1753
Brake-handle.....	H. S. Teal.....	531,577	Dec. 25	2644	633	69	1747
Brake-lever.....	C. A. Anderson.....	521,252	June 12	886	209	67	1371
Brake mechanism.....	J. S. Copeland.....	528,854	Nov. 6	608	{ 144 145 }	69	757
Brake mechanism.....	J. T. Macdonald, Jr.....	523,362	July 24	2055	517	68	433
Brake mechanism. Automatic fluid-pressure.....	H. Guels.....	526,187	Sept. 18	1502	352	68	1448
Brake mechanism. Hydraulic.....	J. Keller.....	520,001	May 15	1852	453	67	910
Brake mechanism. Slack-adjusting device for.....	M. J. Grier.....	518,919	Apr. 24	2561	633	67	513
Brake-shoe.....	E. Cliff.....	529,897	Nov. 27	2429	584	69	1139
Brake-shoe.....	A. W. Field.....	529,372	Nov. 20	1526	365	69	965
Brake-shoe.....	H. A. Lewis.....	530,783	Dec. 11	1252	302	69	1458
Brake-shoe.....	J. O'Brien.....	528,553	Nov. 6	49	13	69	655
Brake-shoe.....	W. D. Sargent.....	516,992	Mar. 20	2089	494	66	1874
Brake-shoe.....	W. D. Sargent.....	523,084	July 17	1549	388	68	325
Brake-shoe.....	C. T. Schoen.....	513,656	Jan. 30	3229	793	66	741
Brake-shoe.....	C. T. Schoen.....	520,900	June 5	267	64	67	1246
Brake-shoe clamp.....	E. H. Kinnaman.....	527,662	Oct. 23	1964	472	69	408
Brake shoe. Vehicle.....	H. F. Shephard.....	527,296	Oct. 9	1018	247	69	203
Brake-shoes. Making.....	C. T. Schoen.....	513,655	Jan. 30	3228	793	66	741
Brake slack-adjuster.....	W. H. Marshall.....	518,110	Apr. 10	1156	290	67	227
Branding-iron.....	J. L. Torrey.....	520,503	May 29	2726	661	67	1102
Brazing or smelting apparatus.....	M. S. Thompson.....	524,450	Aug. 14	849	208	68	834
Bread-cutter.....	S. Strande.....	529,537	Nov. 20	1842	439	69	1020
Bread in ovens. Means for deodorizing and sweetening.....	M. Zoeller.....	523,846	July 31	2925	{ 728 729 }	68	607
Bread. Method of and apparatus for producing letters or characters in.....	R. M. Shaffer.....	527,027	Oct. 2	582	141	69	110
Bread or cake box.....	J. M. Wheat.....	517,085	Mar. 27	2273	536	66	1925
Bread or cake knife.....	J. W. Hurd.....	527,175	Oct. 9	812	197	69	166
Bread or cakes. Apparatus for the manufacture of aerated.....	J. Childs.....	526,377	Sept. 25	1845	439	68	1529
Bread-raiser.....	L. Leitch.....	530,231	Dec. 4	275	68	69	1265
Bread-tray and rolling-board. Combined.....	T. Collins.....	515,858	Mar. 6	203	48	66	1491
Breast-compressor.....	T. R. Chambers.....	513,086	Jan. 23	2263	546	66	523
Breast-supporter.....	M. Tuck.....	525,241	Aug. 28	2202	536	68	1106
Breathing-tube.....	J. T. Wilhide.....	515,637	Feb. 27	2731	680	66	1412
Breech-bolt.....	F. J. Penn and J. Deeley, Sr.....	522,121	June 26	2430	524	67	1691
Brewers' grains. Apparatus for drying.....	A. Mason.....	512,673	Jan. 9	1561	375	66	307
Brewers' grains. Method of and apparatus for treating.....	J. J. Hayes.....	511,949	Jan. 2	373	88	66	72
Brewing-vat.....	H. Strater.....	513,215	Jan. 23	2468	596	66	563
Brick.....	H. Lofte.....	523,076	July 17	1540	386	68	323
Brick and tile kiln.....	G. N. Phares.....	517,883	Apr. 10	761	190	67	161
Brick-drier.....	A. F. Barron.....	514,406	Feb. 6	716	{ 181 182 }	66	988
Brick-drier car.....	A. T. Bemis.....	529,675	Nov. 20	2055	492	69	1060
Brick-drying tunnel.....	J. Starkey.....	513,738	Jan. 30	3361	829	66	766
Brick from city refuse. Manufacture of.....	E. L. Ransome.....	516,112	Mar. 6	605	.....	66	1566
Brick-kiln.....	J. Conley.....	513,034	Jan. 16	2195	524	66	440
Brick-kiln.....	J. Conley.....	513,035	Jan. 16	2196	{ 524 525 }	66	441
Brick-kiln.....	J. Conley.....	513,036	Jan. 16	2197	525	66	441
Brick-kiln.....	J. Conley.....	513,037	Jan. 16	2198	{ 525 526 }	66	441
Brick-kiln.....	J. Conley.....	513,038	Jan. 16	2199	526	66	442
Brick-kiln.....	C. Forrester and A. H. Donecken.....	512,106	Jan. 2	633	152	66	121
Brick-kiln.....	C. E. Frost.....	531,371	Dec. 25	2290	546	69	1678
Brick-kiln.....	P. Gonder.....	523,275	July 17	1907	460	68	369
Brick-kiln.....	T. Green.....	514,709	Feb. 13	1227	305	66	1103
Brick-kiln.....	H. L. Hayes.....	516,306	Mar. 13	929	218	66	1643
Brick-kiln.....	C. F. Kaul.....	524,442	Aug. 14	830	203	68	831
Brick-kiln.....	C. Krahe.....	519,677	May 8	1326	320	67	800
Brick-kiln.....	F. Macarthy.....	518,153	Apr. 10	1920	306	67	239
Brick-kiln.....	N. Merley.....	527,703	Oct. 16	1689	406	69	341
Brick-kiln.....	W. H. Noye.....	513,719	Jan. 30	3335	{ 823 824 }	66	761
Brick-kiln.....	G. S. M. Rutter.....	528,113	Oct. 23	2421	536	69	492
Brick-kiln.....	J. M. Shuck and T. E. Martin.....	516,615	Mar. 13	1458	{ 344 345 }	66	1740
Brick-kiln.....	C. A. Snow.....	512,334	Jan. 9	998	244	66	201
Brick-kiln.....	W. A. Wilford.....	527,255	Oct. 9	942	{ 228 229 }	69	190
Brick-kiln. Combination.....	G. C. Firestone.....	518,690	Apr. 24	2195	542	67	441
Brick-kiln. Continuous.....	T. Green.....	513,999	Feb. 6	41	9, 10	66	862
Brick-kiln furnace.....	B. W. May.....	529,931	Nov. 27	2483	599	69	1148
Brick-kiln furnace.....	R. B. Morrison.....	512,891	Jan. 16	1972	468	66	400

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Brick-machine	H. G. Gilbert	518,597	Apr. 24	2006	498	67	413
Brick-machine	C. H. Horton	524,438	Aug. 14	823	{ 201 202 }	68	829
Brick-machine	J. J. Kulage	516,375	Mar. 13	1056	251	66	1665
Brick-machine	J. J. Kulage	516,376	Mar. 13	1059	252	66	1665
Brick-machine	J. D. Pace	520,023	May 15	1893	462	67	918
Brick-machine	E. G. Rankin and J. Tempest	519,590	May 8	1179	{ 284 285 108 }	67	774
Brick-machine	N. B. Rice	516,023	Mar. 6	470	{ 109 110 }	66	1540
Brick-machine	P. L. Simpson	513,444	Jan. 23	2836	{ 696 697 }	66	634
Brick-machine	H. Stuckey	521,349	June 12	1073	{ 251 252 }	67	1407
Brick-machine	W. Zortman and G. R. Ward	516,883	Mar. 20	1904	{ 449 450 }	66	1840
Brick-machine cut-off table	W. W. Wallace and R. C. Penfield	515,383	Feb. 27	2336	580	66	1336
Brick-machine mold	E. Fernholtz	518,185	Apr. 10	1278	323	67	248
Brick-machine mold	J. Leenhardt	518,461	Apr. 17	1784	443	67	358
Brick-machine plunger	J. Leonhardt	518,460	Apr. 17	1783	442	67	358
Brick-machine. Re-press	D. Brown	518,643	Apr. 24	2088	{ 520 521 }	67	427
Brick-making-machine attachment	L. Patterson	517,010	Mar. 20	2116	500	66	1880
Brick. Manufacturing	J. J. Kulage	516,378	Mar. 13	1063	.....	66	1666
Brick-mold	D. J. C. Arnold	524,927	Aug. 21	1645	403	68	990
Brick or terra-cotta house	G. E. Hagerman	521,710	June 19	1698	399	67	1539
Brick or tile cutting table	J. D. Fate	515,934	Mar. 6	315	75	66	1512
Brick or tile machine	J. J. Kulage	516,377	Mar. 13	1060	252	66	1665
Brick-press	L. F. Gerding and E. C. Harrison	525,199	Aug. 28	2137	{ 521 522 }	68	1094
Brick-press	E. W. Seamans	516,453	Mar. 13	1185	284	66	1689
Brick-presses. Sectional mold for	P. L. Simpson	520,455	May 29	2642	638	67	1088
Brick-pressing machine	J. S. Pullan, W. H. Mann, and J. Gill	514,772	Feb. 13	1328	{ 332 333 }	66	1121
Brick-truck	D. M. Warner and C. E. Hammond	521,196	June 12	787	184	67	1353
Bricks from coal-dust. Making	B. Müller	526,936	Oct. 2	449	.....	69	84
Bricks. Manufacture of	C. B. Coxo	521,535	June 19	1407	325	67	1484
Bricks. Manufacturing porous	H. Maurer	520,266	May 22	2334	.....	67	1014
Bricks. Method of and apparatus for forming	H. H. Keller	514,421	Feb. 6	733	{ 186 187 }	66	992
Bricks, tiles, &c. Facing	A. L. R. Van den Berghen	521,226	June 12	843	.....	67	1363
Bricks, tiles, &c. Machine for pressing	J. Leenhardt	523,797	July 31	2825	{ 702 703 }	68	588
Bricks, tiles, &c. Making enameled	A. M. Strusholm	520,868	June 5	207	.....	67	1235
Bridge	J. C. Feun	530,265	Dec. 4	333	82	69	1276
Bridge	F. H. Hopler	518,648	Apr. 24	2095	523	67	428
Bridge. Draw	N. C. Jessup	514,754	Feb. 13	1304	325	66	1117
Bridge. Draw	M. G. Schinke	517,809	Apr. 3	657	{ 164 165 }	67	127
Bridge-gate	H. F. Barndt	516,179	Mar. 13	724	170	66	1603
Bridge-gate	F. Carlson	514,064	Feb. 6	137	33	66	879
Bridge-gate	G. Lant	515,834	Mar. 6	164	40	66	1484
Bridge-gate	B. Moore	518,111	Apr. 10	1158	291	67	227
Bridge-gate	T. J. O'Brien and E. J. Wilson	530,348	Dec. 4	485	120	69	1303
Bridge-gate	G. F. Ryan	516,121	Mar. 6	616	{ 144 145 }	66	1568
Bridge-gate	J. Sego and C. Faucher	519,274	May 1	600	145	67	653
Bridge girder. Truss	E. Keating	530,425	Dec. 4	607	151	69	1326
Bridge, scaffold, tower, &c. Extensible structure for use as a	J. O. Oakley	530,120	Dec. 4	78	{ 21 22 }	69	1229
Bridge-shoe	G. S. Seaman	517,938	Apr. 10	852	215	67	178
Bridge-signal	J. E. Zimmerman	520,286	May 22	2366	574	67	1020
Bridge. Suspension	W. H. C. Greer	513,369	Jan. 23	2748	670	66	619
Bridge. Suspension	D. B. McHenry	524,486	Aug. 14	900	222	68	843
Bridge. Transportable metallic	F. Prasil	513,445	Feb. 27	2434	603	66	1354
Bridge. Truss	D. F. Lane	531,048	Dec. 18	1694	403	69	1554
Bridge. Truss	J. A. L. Waddell	529,220	Nov. 13	1250	301	69	892
Bridges, roofs, &c. Construction of	J. E. Greiner	528,940	Nov. 13	723	183	69	809
Bridle	T. Marcum	522,021	June 26	2273	545	67	1661
Bridle	J. R. McLeod	518,423	Apr. 17	1711	426	67	346
Bridle-bit	M. F. Bigelow	529,472	Nov. 20	1722	410	69	999
Bridle-bit	E. L. Cruger	529,022	Nov. 13	903	215	69	831
Bridle-bit	R. M. Devereaux	515,326	Feb. 27	2239	554	66	1318
Bridle-bit	T. D. Gordon	519,112	May 1	293	70	67	591
Bridle-bit	M. Lesser	526,241	Sept. 18	1599	375	68	1468
Bridle-bit	R. Sears	514,779	Feb. 13	1344	336	66	1124
Bridle-bit	R. A. Shute	529,814	Nov. 27	2292	547	69	1112
Bridle-bit	W. H. Smith and S. D. Freeman	511,811	Jan. 2	97	25	66	82
Bridle-bit	F. Swales	531,230	Dec. 18	2033	485	69	1615
Bridle-bit	E. E. Withey	523,612	July 24	2485	625	68	510
Bridle-bit	W. C. Wittmann	522,572	July 3	677	172	68	132
Bridle-bits. Machine for making	G. B. Freeman	512,875	Jan. 16	1944	{ 460 461 }	66	395
Bridle brow-band	C. H. Hartwig	526,706	Oct. 2	61	16	69	14
Bridle for horses. Controlling	W. A. Lewis	515,593	Feb. 27	2665	662	66	1399
Broiler	W. Hailes	518,243	Apr. 17	1397	350	67	228
Broiler or toaster	F. Groos	513,103	Jan. 23	2288	554	66	524
Broiler or toaster	W. T. Russell	514,568	Feb. 13	947	249	66	1057
Brooch-pin	D. Metzger	529,743	Nov. 27	2172	518	69	1099
Brooch-pin safety attachment	A. F. Bock	521,598	June 19	1514	354	67	1503
Brooder	D. O. Brunner	525,255	Aug. 28	2218	540	68	1109
Brooder	S. Q. Duncan	518,003	Apr. 10	964	245	67	198
Brooder. Chicken	L. C. Billings	531,255	Dec. 18	2074	496	69	1622

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Brooder. Chicken.....	J. C. Nicholls.....	516,976	Mar. 20	2061	{ 487 488 }	66	1869
Brooder. Chicken.....	F. J. Wiegand.....	527,822	Oct. 23	1881	451	69	393
Broom.....	D. A. McDonel.....	531,056	Dec. 13	1705	405	69	1556
Broom and lantern holder. Combination.....	J. C. Huxhold.....	514,122	Feb. 6	923	53	66	897
Broom. Corn.....	J. L. Stevenson.....	520,546	May 29	2796	675	67	1115
Broom-corn. Machine for removing stems from.....	P. Lamboy.....	520,568	May 29	2833	{ 653 654 }	67	1123
Broom-corn-sizing machine.....	G. F. McCombs.....	517,761	Apr. 3	582	{ 143 144 }	67	112
Broom-head.....	J. R. Gilbert.....	521,161	June 12	728	172	67	1342
Broom-heads. Means for attaching handles to.....	S. Green.....	520,984	June 5	421	101	67	1273
Broom-holder.....	F. E. Allen.....	512,597	Jan. 9	1438	347	66	283
Broom-making machine.....	P. B. Donahoo.....	521,853	June 26	1947	462	67	1601
Broom or brush.....	J. C. Morgel, A. T. Ball, and H. M. Nagel.....	513,024	Jan. 16	2183	520	66	438
Broom-rest.....	M. Loftin.....	513,022	Jan. 16	2181	520	66	438
Broom. Rotary.....	N. C. Bassett.....	516,793	Mar. 20	1756	414	66	1810
Brooms. Manufacture of.....	A. Stephen.....	513,837	Jan. 30	3507	863	66	795
Brooms. Manufacturing.....	D. A. McDonel.....	531,055	Dec. 13	1704	405	69	1556
Brush.....	H. B. Ashton.....	517,994	Apr. 10	969	241	67	195
Brush.....	F. J. Clarke.....	512,363	Jan. 9	1043	254	66	209
Brush.....	A. W. Hahn.....	519,948	May 15	1763	432	67	894
Brush.....	A. E. Magoris.....	520,740	May 29	3125	756	67	1176
Brush.....	A. E. Magoris.....	528,730	Nov. 6	359	88	69	712
Brush.....	C. W. Roche.....	527,456	Oct. 16	1291	316	69	270
Brush.....	J. A. Sampsell.....	522,535	July 3	610	156	68	120
Brush.....	J. L. Shute.....	524,654	Aug. 14	1177	289	68	895
Brush.....	W. Wallach.....	523,053	July 17	1516	379	68	318
Brush. Air.....	J. S. Overman and W. T. Woolston.....	528,686	Nov. 6	298	73	69	700
Brush and comb. Combination.....	C. D. Hoagland.....	524,023	Aug. 7	91	20	68	679
Brush and scraper for cleaning boots or shoes. Combined.....	J. C. Wood.....	529,541	Nov. 20	1849	440	69	1021
Brush. Bath.....	G. W. Worden and H. Huettig.....	522,174	June 26	2527	606	67	1710
Brush. Bath or flesh.....	G. S. Gladding.....	511,769	Jan. 2	43	11	66	11
Brush. Bathing or flesh.....	F. Neidl.....	513,718	Jan. 30	3334	823	66	761
Brush binder. Paint.....	T. W. Frost.....	519,996	May 15	1846	451	67	909
Brush bridle. Paint.....	C. Boeckh, Jr.....	529,018	Nov. 13	903	213	69	830
Brush bridle. Paint.....	C. Boeckh, Jr.....	530,326	Dec. 4	549	136	69	1315
Brush. Cleansing.....	G. W. Park.....	520,440	May 29	2628	636	67	1086
Brush cutter. Sage.....	F. K. Froman and H. C. Murray.....	515,546	Feb. 27	2593	641	66	1384
Brush-cutting machine.....	M. P. Kelly and C. Holloway.....	515,866	Mar. 6	213	50	66	1493
Brush. Dust.....	H. Z. Ziegler and A. I. Wood.....	523,754	Nov. 6	406	98	69	720
Brush. Folding.....	E. W. Frank.....	516,483	Mar. 13	1231	295	66	1693
Brush for doors. Fly.....	A. J. and A. J. Park, Jr.....	514,604	Feb. 13	1057	264	66	1069
Brush. Fountain.....	T. D. Constant.....	524,132	Aug. 7	284	66	68	714
Brush. Fountain.....	H. Ott.....	520,241	May 22	2290	556	67	1005
Brush. Fountain cleansing.....	G. W. Park.....	524,094	Aug. 7	210	48	68	700
Brush. Fountain marking.....	R. G. Bailey.....	519,223	May 1	512	124	67	637
Brush. Fountain marking.....	A. G. Carling.....	525,259	Aug. 28	2224	541	68	1110
Brush. Fountain or hydraulic.....	W. H. Miller.....	524,448	Aug. 14	846	208	68	833
Brush handle. Flue.....	E. P. Hunt.....	531,039	Dec. 18	1676	397	69	1550
Brush-holder.....	M. Wool.....	528,267	Oct. 30	2691	649	69	556
Brush. Horse.....	H. L. Barney.....	521,078	June 5	580	136	67	1302
Brush-machine.....	H. Besson.....	521,630	June 19	1568	{ 366 367 }	67	1513
Brush-machine.....	M. Young.....	530,151	Dec. 4	125	32, 33	69	1238
Brush-machine.....	M. Young.....	530,152	Dec. 4	126	33, 34	69	1238
Brush-making. Method of and means for preparing bristles for.....	A. S. Miles.....	522,609	July 10	750	{ 190 191 }	68	162
Brush. Paint.....	G. A. Krichbaum.....	517,868	Apr. 10	737	185	67	156
Brush. Revolving cleaning.....	W. R. Nightingale.....	518,352	Apr. 17	1597	395	67	325
Brush. Shoe.....	J. Knoepfel.....	516,541	Mar. 13	1336	318	66	1717
Brush. Stencil.....	L. W. Baldwin.....	513,071	Jan. 23	2246	541	66	519
Brush-support.....	G. F. Whiting.....	527,032	Oct. 2	592	143	69	111
Brush. Tooth.....	O. F. Hager.....	520,593	May 29	2877	696	67	1131
Brush. Tooth.....	S. Zucker.....	530,153	Dec. 4	129	34	69	1239
Brushes. Manufacture of.....	J. Stander.....	527,251	Oct. 9	938	227	69	190
Bubble-blower.....	P. D. Horton.....	517,118	Mar. 27	2327	548	66	1937
Bubble-blowing device.....	G. Bronsseau.....	513,479	Jan. 30	2913	717	66	684
Bubbles. Composition for blowing soap.....	E. E. McNaughton.....	519,923	May 15	1721	68	67	887
Bucket.....	A. Mitchell.....	526,084	Sept. 18	1320	308	68	1417
Bucket. Coal-handling.....	W. G. Curtis and J. D. Isaacs.....	515,117	Feb. 20	1870	469	66	1236
Bucket cover. Sap.....	D. S. Sperry and G. R. Hannum.....	524,356	Aug. 14	684	166	68	802
Bucket. Elevating.....	T. L. Marvel.....	524,043	Aug. 7	121	27	68	684
Bucket-fastener.....	H. L. R. Wolf.....	528,316	Oct. 30	2780	671	69	571
Bucket hoisting and tripping apparatus.....	W. E. Ludlow.....	519,723	May 15	1405	{ 339 340 }	67	828
Bucket mechanism. Drop-bottom.....	G. H. Hallett.....	513,327	Jan. 23	2650	642	66	600
Bucket. Milk.....	M. E. Thomas and W. H. Denison.....	516,319	Mar. 13	947	222	66	1646
Bucket. Oyster.....	W. E. Crume.....	515,820	Mar. 6	147	36	68	1480
Buckle.....	G. E. Adams.....	517,421	Apr. 3	1	1	67	3
Buckle.....	G. M. Aylsworth.....	524,298	Aug. 14	563	134	68	783
Buckle.....	C. A. Conger.....	520,588	May 29	2867	694	67	1130
Buckle.....	D. F. Dalton.....	514,706	Feb. 13	1223	304	66	1102
Buckle.....	D. F. Dalton.....	523,465	July 24	2240	563	68	464
Buckle.....	C. R. Harris.....	513,780	Jan. 30	3418	843	66	776
Buckle.....	C. R. Harris.....	519,889	May 15	1675	408	67	879
Buckle.....	H. W. Hoeft.....	525,547	Sept. 4	388	94	68	1223
Buckle.....	J. A. King.....	518,999	May 1	100	24	67	554
Buckle.....	A. E. McClure.....	519,542	May 8	1103	{ 264 265 }	67	760
Buckle.....	A. E. McClure.....	519,543	May 8	1105	265	67	761
Buckle.....	A. E. McClure.....	519,544	May 8	1107	265	67	761

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Buckle.....	A. E. McClure.....	519,545	May 8	1108	265 266	67	761
Buckle.....	A. E. McClure.....	519,546	May 8	1110	266	67	761
Buckle.....	A. E. McClure.....	519,547	May 8	1111	266	67	761
Buckle.....	A. E. McClure.....	520,373	May 22	2511	608	67	1049
Buckle.....	A. E. McClure.....	520,374	May 22	2513	608	67	1049
Buckle.....	A. E. McClure.....	520,375	May 22	2514	609	67	1049
Buckle.....	J. F. Molloy.....	528,006	Oct. 23	2245	542	69	459
Buckle.....	A. Morris.....	518,113	Apr. 10	1164	292	67	228
Buckle.....	F. C. Ruffhead and W. F. Anthony.....	531,336	Dec. 25	2224	531	69	1666
Buckle.....	D. L. Smith.....	518,125	Apr. 10	1180	296	67	231
Buckle.....	D. L. Smith.....	523,550	July 24	2386	599	68	492
Buckle.....	D. F. Stayman.....	524,618	Aug. 14	1123	276	68	885
Buckle.....	A. Steiner.....	530,363	Dec. 4	510	126	69	1308
Buckle.....	C. W. Stimson.....	514,516	Feb. 13	902	229	66	1041
Buckle.....	F. G. Winkfield.....	519,518	May 8	1066	256	67	753
Buckle and trace-support. Harness- Buckle attachment.....	W. Brady.....	522,876	July 10	1190	297	68	241
Buckle. Back-band.....	S. C. Anderson.....	513,068	Jan. 23	2243	541	66	519
Buckle. Back-band.....	C. E. Krouse.....	512,038	Jan. 2	517	122	66	99
Buckle-fastener.....	W. J. Ware.....	515,067	Feb. 20	1795	453	66	1222
Buckle. Self clamping and locking trace- Buckle. Suspender.....	W. B. H. Dowse.....	520,018	May 15	1878	459	67	915
Buckle. Suspender.....	F. D. Clark.....	517,435	Apr. 3	20	5	67	6
Buckle. Suspender.....	W. L. Doran.....	527,170	Oct. 9	803	196	69	164
Buckle. Suspender.....	D. L. Durand.....	521,084	June 5	593	140	67	1304
Buckle. Trace.....	J. N. McGriff.....	530,960	Dec. 18	1535	363	69	1525
Buckle. Trace.....	L. L. Booth.....	525,973	Sept. 11	1141	259	68	1371
Buckle. Wire suspender.....	G. V. Martin.....	515,780	Mar. 6	89	21	66	1470
Buckles. Clinch-back for suspender.....	J. F. Molloy.....	517,875	Apr. 10	747	187	67	158
Buckles. Manufacture of sheet-metal suspender- Buckle.....	G. E. Adams.....	520,025	May 22	1899	464	67	935
Buddle.....	G. E. Adams.....	528,625	Nov. 6	178	44	69	678
Buff-wheel.....	J. Radermacher.....	525,363	Sept. 4	75	20	68	1164
Buffing-pad holder.....	W. T. Heylman.....	520,679	May 29	3028	733	67	1158
Buffing-machine.....	A. E. Perry.....	528,024	Oct. 23	2268	548	69	463
Buffing-machines. Abrasive cover for.....	S. W. Winslow.....	526,137	Sept. 18	1416	330	68	1434
Buffing-roll.....	A. W. Rogers.....	523,594	July 24	2456	616	68	505
Buffing-wheel.....	H. A. Webster.....	523,157	July 17	1702	427 428	68	352
Buggy-boot.....	T. J. Cleary.....	520,516	May 29	2743	664	67	1105
Buggy-cushion.....	W. J. Kauffman.....	526,233	Sept. 18	1584	372	68	1464
Buggy-seat.....	F. Long.....	526,041	Sept. 18	1252	290	68	1404
Buggy-top attachment.....	C. Gussett.....	523,835	July 31	2898	722	68	602
Buggy-top prop.....	J. D. Axline and J. L. Baillie.....	531,493	Dec. 25	2506	597	69	1720
Buggy-top rest.....	L. C. Pollard.....	527,183	Oct. 9	823	200	69	168
Buggy-top support.....	J. Heilrath.....	525,545	Sept. 4	385	94	68	1222
Buggy-top support.....	W. W. Krutsch.....	525,986	Sept. 11	1158	263	68	1375
Buggy-top support.....	T. MacGlashan.....	521,415	June 12	1172	279	67	1426
Buggy-tops. Lever attachment for raising or lower- ing.....	A. N. Rooks.....	528,032	Oct. 23	2282	550	69	466
Building.....	J. B. Aton.....	526,430	Sept. 25	1960	467	68	1549
Building-block.....	C. A. Praray.....	518,274	Apr. 17	1446	361	67	297
Building-block.....	P. A. Cuenot.....	520,136	May 22	2110	514	67	971
Building-block.....	A. Federici.....	527,416	Oct. 16	1217	297	69	254
Building-block.....	J. E. Meyenberg.....	512,043	Jan. 2	523	123	66	100
Building-block.....	O. B. Schmall.....	513,423	Jan. 23	2796	685	66	628
Building-block.....	E. Smith.....	518,630	Apr. 24	2062	513	67	422
Building-block and apparatus for manufacturing same.....	H. Behrens.....	522,143	June 26	2478	594	67	1700
Building construction.....	T. O'Shea.....	522,613	July 10	762	192	68	164
Building construction.....	E. L. Ransome.....	516,111	Mar. 6	604	142	66	1566
Building construction.....	E. R. Storm.....	524,472	Aug. 14	876	216	68	839
Building construction. Fireproof.....	T. Bailey.....	527,649	Oct. 16	1600	386	69	325
Building constructions. Composition for.....	W. R. Forbush.....	531,369	Dec. 25	2288	657	69	1678
Building. Fireproof.....	M. F. McCarthy.....	520,469	May 29	2703	655	67	1098
Building-mat. Composite.....	D. Neale.....	526,457	Sept. 25	2010	478	68	1555
Buildings. Constructing.....	H. Klein and E. Rowenhagen.....	525,847	Sept. 11	934	209	68	1333
Buildings. Construction of.....	J. M. Cornell.....	523,425	July 24	2159	542 543	68	452
Bullet-mold.....	G. P. Riggs.....	521,819	June 26	1897	455	67	1592
Bullion. Refining base.....	C. V. Petraeus.....	515,164	Feb. 20	1931	66	66	1252
Bumping-post.....	A. Ewaldt.....	524,416	Aug. 14	795	194 195	68	823
Bunch-shaper.....	E. Barth.....	529,544	Nov. 20	1853	441	69	1022
Bundle-carrier.....	W. W. Burson.....	519,534	May 15	1580	387	67	861
Bundling-machine.....	W. F. Hutchinson and A. J. Tyler.....	518,248	Apr. 17	1402	351	67	289
Bung.....	J. Baemle.....	525,533	Sept. 11	902	201	68	1327
Bung.....	N. Fuchs.....	518,811	Apr. 24	2389	590	67	480
Bung.....	M. Kragen.....	518,610	Apr. 24	2027	504	67	416
Bung.....	P. J. Layden.....	512,832	Jan. 16	1863	441	66	380
Bung.....	H. A. Lewie.....	515,003	Feb. 20	1686	423	66	1204
Bung and bushing.....	G. H. Merrick.....	520,372	May 22	2509	608	67	1048
Bung-closure.....	E. Hazlehurst.....	517,160	Mar. 27	2397	565	66	1949
Bung. Expansible.....	L. Wagner.....	517,781	Apr. 3	615	153	67	119
Bung-extracting machine.....	J. U. Kraft.....	519,021	May 1	133	33	67	561
Bung-making machine.....	E. E. Elder.....	527,952	Oct. 23	2123	511 513	69	439
Bung-stopper.....	B. Rubenstein.....	527,888	Oct. 23	2013	483	69	416
Bung-stopper and bung-bush.....	S. Schlagen and I. Neumann.....	526,464	Sept. 25	2017	480	68	1559
Bung. Vent.....	R. Schaefer.....	515,095	Feb. 20	1831	462	66	1230
Bung. Vent.....	L. Wagner.....	516,667	Mar. 20	1558	370	66	1776
Bunging apparatus.....	L. Wagner and J. Marr.....	516,668	Mar. 20	1559	370 371	66	1776
Burglar-alarm.....	L. S. Buffington.....	521,151	June 12	706	165 166	67	1338
Burglar-alarm.....	P. Byrne.....	525,530	Sept. 4	350	56	68	1216

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Burglar-alarm.....	N. Hamlet.....	521,024	June 5	482	115	67	1234
Burglar-alarm.....	J. F. Harvey and D. Shields.....	515,677	Feb. 27	2600	698	66	1426
Burglar-alarm.....	C. R. Hoopes.....	521,239	June 12	861	203	67	1366
Burglar-alarm.....	P. H. Lindsey and C. H. Squires.....	522,953	Nov. 13	803	187	69	813
Burglar-alarm.....	J. H. Lowe.....	530,434	Dec. 4	620	155	69	1328
Burglar-alarm.....	C. J. Lyons.....	518,614	Apr. 24	2032	506	67	417
Burglar-alarm.....	G. W. McLaughen and W. L. Galant.....	518,532	Apr. 17	1900	470	67	379
Burglar-alarm.....	H. A. Moore.....	519,265	May 1	583	142	67	650
Burglar-alarm.....	W. Ritzmann.....	516,771	Mar. 20	1728	406	66	1805
Burglar-alarm.....	H. C. F. E. Snowman and N. E. Lacey.....	515,558	Feb. 27	2612	648	66	1388
Burglar-alarm.....	J. A. Spurlock.....	514,513	Feb. 13	898	239	66	1040
Burglar-alarm.....	A. N. Woodard.....	515,851	Mar. 6	196	46	66	1429
Burglar-alarm. Detonating.....	L. B. Burrill.....	530,012	Nov. 27	2655	367	69	1183
Burglar-alarm. Detonating.....	J. W. Horn.....	530,947	Dec. 18	1516	359	69	1522
Burglar-alarm. Detonating.....	W. S. McClintock.....	516,215	Mar. 13	788	184	66	1616
Burglar-alarm. Detonating.....	S. D. Silver.....	531,428	Dec. 25	2380	569	69	1696
Burglar-alarm. Door-locking.....	H. J. Mitchell.....	522,206	Oct. 30	2591	626	69	536
Burglar-alarm. Electric.....	W. A. Brownell and J. B. Seager.....	522,589	Nov. 6	108	27	69	666
Burglar-alarm. Electric.....	J. Frame and R. B. Morden.....	517,450	Apr. 3	65	14	67	14
Burglar-alarm. Electric.....	A. Stromberg. (Reissue).....	11,423	June 26	2543	611	67	1713
Burglar-alarm. Portable.....	L. G. Larson.....	527,998	Oct. 23	2232	538	69	457
Burglar-alarm. Portable.....	S. C. Lawlor.....	517,869	Apr. 10	738	155	67	156
Burglar-alarm. Safe.....	J. W. and W. D. Gilstrap.....	530,411	Dec. 4	582	145	69	1322
Burglar-alarm spring.....	M. T. Gordon.....	517,547	Apr. 3	214	49	67	43
Burglar-alarm system.....	A. Stromberg.....	530,976	Dec. 18	1567	371	69	1530
Burglar-alarm systems. Circuit-closer for.....	A. Stromberg.....	530,975	Dec. 18	1566	371	69	1530
Burglar-alarms. Window-spring for.....	J. Steiner.....	522,277	July 3	184	50	68	33
Burial apparatus.....	T. Martin.....	529,456	Nov. 20	1696	405	69	995
Burial apparatus.....	A. E. Whitney.....	518,976	May 1	63	16	67	548
Burial case.....	J. F. Hobson.....	521,568	June 19	1463	342	67	1494
Burial-casket.....	M. M. Hoffmann.....	524,762	Aug. 21	1362	332	68	940
Burial-casket.....	L. Stein and N. Rappleyea.....	518,553	Apr. 17	1930	477	67	384
Burial-casket flower-bracket.....	R. F. Glesson.....	519,426	May 8	889	215	67	722
Burial-casket pedestal.....	S. N. Hiser.....	514,651	Feb. 13	1461	367	66	1147
Burner.							
See Bagasse-burner. Injector-burner.							
Duplex burner. Lamp-burner.							
Flash-light burner. Oil-burner.							
Fluid-fuel burner. Oil or gas burner.							
Gas-burner. Stove gas-burner.							
Hydrocarbon-burner. Vapor-burner.							
Hydrocarbon injector burner.							
Burner for burning gaseous fuel.....	J. F. Hewitt.....	523,036	July 17	1487	370	68	312
Burner for the combustion of gas or vapor for heating purposes.....	H. A. and H. A. House, Jr.....	521,165	June 12	732	173	67	1343
Burning city refuse.....	E. L. Ransome.....	524,687	Aug. 14	1226	300	68	903
Burning garbage, &c. Apparatus for.....	J. C. Anderson.....	526,284	Sept. 18	1664	393	68	1480
Burning garbage, &c. Method of and apparatus for.....	J. C. Anderson.....	526,283	Sept. 18	1661	392	68	1479
Burning granular fuel. Apparatus for.....	C. W. Claybourne.....	531,160	Dec. 18	1897	452	69	1591
Burnishing-machine.....	T. Gare.....	521,977	June 26	2191	527	67	1647
Bus-bar switch for central stations.....	A. B. Herrick.....	524,383	Aug. 14	730	177	68	812
Bushing and faucet. Barrel.....	G. H. Merrick.....	520,239	May 22	2286	555	67	1004
Bushing and tap. Bung.....	J. Mohn.....	530,703	Dec. 11	1117	271	69	1433
Bushing. Barrel.....	A. Kuehne.....	518,194	Apr. 10	1310	328	67	256
Bushing. Barrel.....	G. H. Merrick.....	520,240	May 22	2289	556	67	1004
Bushing for drums or pulleys.....	J. Walker.....	515,563	Feb. 27	2618	649	66	1389
Bustle.....	E. Case.....	517,434	Apr. 3	19	4	67	6
Butchering apparatus.....	M. Cherry and D. Dysert.....	527,320	Oct. 9	1056	255	69	210
Butchering apparatus.....	P. A. Davis.....	529,367	Nov. 20	1513	363	69	964
Butter, &c. Apparatus for molding pats or blocks of.....	W. Hucks, Jr.....	526,902	Oct. 2	390	97	69	73
Butter-box lining.....	G. W. White.....	524,231	Aug. 7	446	105	68	743
Butter box or case.....	C. L. Sims.....	515,258	Feb. 20	2109	523	66	1281
Butter-extractor. Centrifugal.....	G. M. Andersson.....	519,691	May 15	1353	327	67	819
Butter-extractor. Centrifugal.....	G. M. Andersson.....	520,102	May 22	2027	495	67	959
Butter-extractor. Centrifugal.....	G. M. Andersson.....	520,131	May 22	2098	510	67	969
Butter-extractor. Centrifugal.....	O. Ohlsson.....	528,682	Nov. 6	291	71	69	698
Butter-extractor. Centrifugal.....	A. Ponten.....	521,043	June 5	522	123	67	1292
Butter-mold.....	W. Dorsey and J. E. Brenneisen.....	519,495	May 8	1007	243	67	742
Butter-mold.....	F. W. Eggeling.....	520,917	June 5	303	74	67	1252
Butter-mold. Adjustable.....	H. S. Maltby.....	524,147	Aug. 7	310	73	68	718
Butter molding and cutting device.....	L. L. Mivellaz.....	523,584	July 24	2439	611	68	502
Butter-package cover.....	O. W. Stearns.....	525,032	Aug. 28	1838	449	68	1044
Butter. Preserving or renovating.....	W. N. Blakeman, Jr.....	520,513	May 29	2740	627	67	1105
Butter. Producing sterilized.....	G. Müller.....	523,587	July 24	2446	612	68	503
Butter-worker.....	D. J. Davis.....	518,588	Apr. 24	1997	494	67	411
Butter-worker.....	R. B. Disbrow.....	527,673	Oct. 16	1635	394	69	332
Butter-worker.....	F. B. Fargo.....	515,667	Feb. 27	2722	693	66	1422
Button.....	J. W. Beaumont.....	515,188	Feb. 20	1985	495	66	1258
Button.....	T. W. Crozier.....	519,668	May 8	1310	313	67	797
Button.....	W. S. Godfrey.....	519,946	May 15	1760	431	67	894
Button.....	H. W. Libbey.....	527,432	Oct. 16	1244	306	69	259
Button.....	P. Neidhardt.....	527,502	Oct. 16	1359	331	69	282
Button.....	J. V. Pilcher.....	521,042	June 5	520	123	67	1201
Button.....	J. V. Pilcher.....	521,418	June 12	1178	280	67	1427
Button.....	R. Pöschel.....	526,739	Oct. 2	117	28	69	23
Button.....	C. Radcliffe.....	520,697	June 5	263	63	67	1245
Button.....	A. J. Shipley and T. R. Hyde, Jr.....	522,239	July 3	110	26	68	21
Button.....	J. Skilling.....	523,397	Oct. 30	2915	705	69	595
Button.....	C. E. Stowe.....	520,621	May 29	2915	705	67	1138
Button and fastening therefor.....	J. Bernstein and M. Kohn.....	525,527	Sept. 4	346	85	68	1215

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Button-attaching machine	E. N. Barber and J. H. Whitehead	516,959	Mar. 20	2034	481	66	1865
Button-attaching machine	C. E. Denton	518,182	Apr. 10	1272	320	67	247
Button-attaching machine	W. E. Elliott	526,012	Sept. 11	1195	275	68	1381
Button-attaching machine	F. A. Ryno	517,485	Apr. 3	116	26	67	24
Button-blank-forming machine	E. J. Pope	529,950	Nov. 27	2521	608	69	1155
Button clasp. Collar	J. B. Wolgemuth and G. S. Engle	525,039	Aug. 28	1855	453	68	1047
Button. Collar	B. Hurst and L. Rosenberg	516,663	Mar. 20	1583	377	66	1780
Button. Covered	A. M. Lougee	523,149	July 17	1689	422	68	350
Button. Cuff	J. A. Flomerfelt	518,595	Apr. 24	2004	497	67	413
Button. Detachable	W. J. Moore	531,466	Dec. 25	2462	586	69	1711
Button-drilling machine	G. Carlyle	520,914	June 5	298	72	67	1251
Button-drilling machine	J. Webb	522,036	June 26	2296	549	67	1605
Button-fastener	R. M. Bell	513,866	Jan. 30	3558	876	66	805
Button-fastener	H. Thier	529,974	Nov. 27	2568	619	69	1164
Button-fastening machine	J. H. F. Dick	517,604	Apr. 3	304	70, 71	67	60
Button-fastening machine. Automatic	I. J. Saunders	529,139	Nov. 13	1104	267	69	868
Button-finishing machine	H. A. Berger	518,340	Apr. 17	1560	387	67	317
Button-holder	W. Lerch	519,582	May 8	1171	281	67	772
Buttonhole-cutter	C. A. Shultz	512,452	Jan. 9	1217	294	66	241
Buttonhole repair-patch	E. P. Roche	522,768	July 10	1041	257	68	212
Buttonhole-strip and making same	F. A. Cook	514,415	Feb. 6	727	185	66	990
Button-machine	G. Carlyle	520,913	June 5	296	72	67	1251
Button or stud. Collar or cuff	T. W. Jones	524,277	Aug. 7	519	121	68	755
Button or stud. Cuff	C. C. Champenois	524,523	Aug. 14	964	237	68	854
Button or stud. Cuff	C. C. Champenois	528,715	Nov. 6	334	82	69	707
Button parts. Mechanism for assembling	I. G. Platt	520,999	June 5	443	106	67	1277
Button-riveting machine	F. A. Ryno	520,451	May 29	2631	636	67	1086
Button. Separable	T. E. Anderson	521,776	June 26	1834	437	67	1579
Button. Separable	J. Holmes	527,555	Oct. 16	1444	352	69	297
Button. Separable	J. Rodriguez	520,122	May 22	2065	504	67	965
Button-separator	J. W. Holman	527,394	Oct. 9	1178	288	69	254
Button-setting apparatus	W. B. Merritt	517,758	Apr. 3	578	142	67	112
Button-setting machine	I. G. Platt	517,622	Apr. 3	337	79	67	66
Button-setting machine	A. J. Shipley	531,224	Dec. 18	2022	482	69	1613
Button-setting machine	A. G. Wilkins	518,708	Apr. 24	2203	550	67	447
Button-setting machines. Tube loader for	A. W. Ham	530,105	Dec. 4	48	13, 14	69	1224
Buttons. Apparatus for forming pearl	G. Carlyle	522,044	June 26	2307	553	67	1668
Buttons. Detachable cover or appliance for covering	W. C. Cooke	516,787	Mar. 20	1749	412	66	1809
Buttons. Holding device for cleaning uniform	E. A. J. Meredith	514,863	Feb. 13	1474	376	66	1150
Buttons to garments. Machine for attaching	D. A. Carpenter	519,788	May 15	1513	368	67	848
Buttons to garments. Machine for attaching	D. A. Carpenter	525,133	Aug. 28	2023	495	68	1075
Buttuner. Combined shoe and glove	I. E. Mushette	525,154	Aug. 28	2060	502	68	1081
Buttuner. Shoe	D. H. Muir	518,619	Apr. 24	2042	508	67	419
Cabinet	P. Marvel	514,126	Feb. 6	234	54	66	898
Cabinet and index-file	I. E. Edgar	529,251	Nov. 13	1307	314	69	903
Cabinet. Copy-book	R. E. Ashbrook and M. H. Ingram	525,935	Sept. 11	1070	243	68	1357
Cabinet. Grocer's	J. M. Goff	529,528	Nov. 20	1828	434	69	1018
Cabinet. Housekeeping	B. S. Wilkins	521,628	June 19	1566	366	67	1512
Cabinet-maker's clamp	F. F. Houston	511,844	Jan. 2	152	38, 39	66	32
Cabinet-maker's clamp	F. F. Houston	511,845	Jan. 2	154	39, 40	66	32
Cabinet. Parasol or umbrella	A. Bever	518,390	Apr. 17	1662	410	67	336
Cabinet. Record, biographical, and memorial	J. E. Whalen	523,755	July 31	2755	684	68	575
Cabinet. Revolving ribbon	J. A. N. Lindsey	528,685	Nov. 6	661	159	69	767
Cabinet. Stationery	L. C. Beardsley	531,250	Dec. 18	2064	493	69	1620
Cabinet. Street-vender's	D. P. Pierson	522,486	July 3	529	134	68	105
Cabinet. Work	J. Priest	514,771	Feb. 13	1327	331	66	1121
Cabinets, &c. Secret compartment for	J. F. Slater	513,061	Jan. 16	2233	537	66	449
Cable-carrier	H. H. Bliss	516,698	Mar. 20	1606	383	66	1784
Cable-conveyers, &c. Coupler for	M. Garland	516,568	Mar. 13	1353	329	66	1726
Cable-conveyers, &c. Coupling for	M. Garland	517,338	Mar. 27	2690	631	66	2007
Cable-grip	F. T. Hogg	513,014	Jan. 16	2171	517	66	436
Cable-grip	A. N. Humphreys	512,112	Jan. 2	643	154	66	123
Cable-grip	G. C. Ormerod and J. H. Charles	528,384	Oct. 30	2893	700	69	991
Cable-grip	J. A. Tauberschmidt	514,389	Feb. 6	691	174	66	583
Cable-grip for logging and other purposes	G. Gagnon	526,224	Sept. 18	1572	369	68	1462
Cable-gripper	J. Whitall	528,313	Oct. 30	2776	670	69	570
Cable-hanger	A. E. Johnson	516,205	Mar. 13	773	180	66	1613
Cable-replacer	J. Z. Murphy	519,586	May 8	1174	282	67	773
Cable. Running and carrying	J. P. Roe	530,902	Dec. 11	1431	340	69	1491
Cable-stop mechanism	E. Neil	527,069	Oct. 9	643	156	69	135
Cable-support	E. G. P. Wern	527,306	Oct. 9	1036	251	69	206
Cable-switch	G. C. Ormerod	529,530	Nov. 20	1831	435	69	1018
Cable traction. Overhead	W. G. Berg	519,561	May 8	1130	271	67	765
Cables. Apparatus for transporting loads by traveling	J. P. Roe	530,720	Dec. 11	1146	272	69	1438
Cables. Tension device for towing	W. F. Humphrey and S. V. Hoffman	530,995	Dec. 18	1599	379	69	1536
Cableway	T. S. Miller	523,364	July 24	2059	517	68	434
Caddy. Flour	A. Palmer	518,271	Apr. 17	1442	360	67	297

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Caisson air-lock.....	W. C. Barr.....	514,843	Feb. 13	1447	364	60	1145
Cake-machine.....	P. D. Harton.....	516,648	Mar. 20	1521	361	66	1768
Cake-machine.....	P. D. Harton.....	524,022	Aug. 7	90	20	68	679
Cakes, &c., with icing. Machine for coating.....	J. H. Mitchell.....	525,053	Aug. 28	1885	461	68	1051
Calclimine.....	G. S. Adams.....	525,804	Sept. 11	842	.....	68	1318
Calclimbing. Manufacture of material for.....	E. Watson.....	522,634	July 10	794	.....	68	170
Calclime-furnace.....	J. Prud'homme.....	522,853	July 10	1161	299	68	235
Calclining apparatus.....	W. S. Pierce.....	530,125	Dec. 4	87	23	69	1231
Calcium bisulfite liquor. Making.....	M. L. Griffin.....	526,076	Sept. 18	1313	304	63	1415
Calcnlating apparatus.....	W. T. Odhner.....	514,725	Feb. 13	1259	314	66	1108
Calcnlating apparatus.....	P. Soulier.....	517,308	Mar. 27	2642	620	66	1997
Calcnlating-machine.....	J. A. Sewell.....	519,973	May 15	1808	443	67	902
Calcnlating-machine.....	S. R. Stallard.....	516,284	Apr. 17	1461	365	67	300
Calcnlating-machines. Mechanical movement for.....	L. Ehrlich.....	520,040	May 22	1920	471	67	939
Calcnlating system. Electrical.....	H. Hollerith.....	518,604	Apr. 24	2015	500	67	414
Calculator.....	W. H. Clark.....	527,943	Oct. 23	2114	507	69	436
Calculator.....	F. G. Nelson.....	526,196	Sept. 18	1522	357	68	1452
Calculator for wages.....	D. L. Albert.....	518,438	Apr. 17	1744	433	67	352
Calculator. Logarithmic.....	J. Billeter.....	513,172	Jan. 23	2405	581	66	552
Calendar.....	W. K. David.....	527,413	Oct. 16	1212	296	69	253
Calendar-holder.....	L. G. Fouse.....	522,251	July 3	131	31	68	25
Calendar holder. Memorandum.....	R. L. Crampton.....	529,366	Nov. 20	1517	363	69	963
Calendar. Perpetual.....	C. E. Vawter.....	529,979	Nov. 27	2573	620	69	1165
Calender-roll.....	N. D. Ingram and G. H. Moore.....	516,490	Mar. 13	1245	298	66	1700
Calendering-machine.....	R. Butterworth.....	528,920	Nov. 13	746	175	69	803
Calendering-machine.....	P. Dillon.....	525,679	Sept. 4	600	143	68	1261
Calendering-machine.....	H. J. Frink.....	516,646	Mar. 20	1518	361	66	1767
Caliper-gage.....	C. E. Billings.....	517,208	Mar. 27	2480	544	66	1966
Calipers.....	J. Bath.....	527,651	Oct. 16	1601	377	69	325
Calipers.....	G. Oberbeck.....	530,713	Dec. 11	1130	274	69	1435
Calipers.....	J. Randa.....	517,066	Mar. 27	2240	531	66	1918
Calipers and dividers.....	R. A. Saddler.....	524,611	Aug. 14	1109	273	68	882
Calipers. Micrometer.....	J. D. Sloane.....	517,073	Mar. 27	2253	533	66	1921
Calipers or gage. Sliding.....	P. Reber.....	514,685	Feb. 13	1186	296	66	1094
Calipers. Watchmaker's.....	A. F. Brockway.....	520,558	May 29	2816	680	67	1120
Calipers. Watchmaker's.....	G. B. Farrell.....	528,535	Nov. 6	18	6	69	649
Calking-hub with soldering nipple or ferrule.....	G. W. Young.....	519,372	May 8	798	195	67	706
Calking-tool.....	D. Falvey.....	531,411	Dec. 25	2350	561	69	1690
Calking vessels.....	A. J. Brooks.....	527,169	Oct. 9	803	195	69	164
Call-box. Magnet.....	C. E. Scribner.....	523,132	July 17	1662	416	68	345
Call. Electric.....	P. M. Randall.....	512,217	Jan. 2	810	196	66	154
Cambering-machine.....	H. C. Ryding.....	520,708	May 29	3078	744	67	1167
Cambering-machine.....	H. C. Ryding.....	531,448	Dec. 25	2433	579	69	1706
Camera:							
See Folding camera. Panoramic camera.							
Lamp sketching-camera. Photographic camera.							
Magazine-camera. Roll-holder camera.							
Camera.....	J. E. Blackmore.....	528,140	Oct. 30	2476	599	69	517
Camera.....	H. Casler.....	517,539	Apr. 3	198	45	67	40
Camera.....	T. M. Clark.....	520,950	June 5	363	88	67	1263
Camera.....	A. Delug.....	529,369	Nov. 20	1521	364	69	964
Camera-shutter.....	J. E. Blackmore.....	525,439	Sept. 4	208	51, 52	68	1169
Camera-shutter.....	H. B. Carlton.....	512,601	Jan. 9	1441	348	66	284
Camera-shutter.....	L. F. Eiden.....	519,247	May 1	558	136	67	645
Camera-shutter.....	J. C. Hegelein.....	524,143	Aug. 7	304	72	68	718
Camera-shutter.....	W. J. McCollom.....	520,696	May 29	3058	740	67	1164
Camera-shutter.....	G. A. Waters.....	526,471	Sept. 25	2027	483	68	1561
Camera-shutter mechanism.....	T. V. Jensen.....	530,486	Dec. 4	729	178	69	1348
Camera tripod or support.....	E. W. Perry, Jr.....	517,360	Mar. 27	2726	641	66	2014
Camp-chair. Folding.....	C. A. Fairbanks.....	516,763	Mar. 20	1717	404	66	1803
Can:							
See Baking-powder can. Seamless self-opening							
Fruit-can. can.							
Garbage-can. Shipping-can.							
Milk-can. Self-closing can.							
Oil-can. Sheet-metal can.							
Oil or gasoline can. Shipping-can.							
Paper-can. Tin can.							
Sealed can. Valved can.							
Can-bodies, &c. Machine for making.....	W. H. Smyth.....	529,215	Nov. 27	2294	547	69	1112
Can-body-crimping machine.....	H. Schaake.....	528,305	Oct. 30	2753	548	69	568
Can-body-forming machine.....	F. M. Leavitt and J. G. Hodgson.....	522,261	July 3	150	37	68	30
Can-body-forming machine.....	J. K. Underdown.....	528,192	Oct. 30	2560	620	69	532
Can-body-making machine.....	C. M. Symonds.....	515,136	Feb. 20	1901	478	66	1242
Can-body-making machine.....	C. M. Symonds.....	516,033	Mar. 6	489	113	66	1542

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Can-capping machine	T. Van Kannel	512,073	Jan. 2	575	136 137	66	109
Can-cleaning machine	J. R. Rowlands	523,713	July 31	2684	665 666	68	562
Can-crimping machine	J. W. Roberts	521,893	June 26	2014	486	67	1616
Can-discharge attachment. Oil	W. Mathews	517,618	Apr. 3	328	78	67	64
Can-feeding machine	H. R. Stickney	523,554	July 24	2393	600	68	493
Can-filling apparatus	G. H. Perkins	519,307	May 1	665	161	67	666
Can-filling device	E. C. Hillyer	527,982	Oct. 23	2193	528	69	450
Can-filling machine	H. C. Baxter and H. R. Stickney	516,326	Mar. 13	962	226 227	66	1649
Can-filling machine	C. S. Bucklin	515,283	Feb. 20	2146	534 535	66	1289
Can-filling machine	J. W. Kales	520,683	May 29	3033	734 735	67	1159
Can-filling machine	H. R. Stickney	515,062	Feb. 20	1785	450 451	66	1220
Can-filling machine	H. R. Stickney	523,553	July 24	2392	599	68	493
Can-filling machine	A. J. Tanner	518,973	May 1	57	14, 15	67	547
Can-fluxing mechanism	J. Solter	512,403	Jan. 9	1120	270	66	223
Can for paint, putty, lard, &c.	M. A. Marzynski	521,033	June 5	496	118	67	1286
Can-forming and soldering machine. Fruit-	E. Eisenbraun	514,453	Feb. 13	786	201	66	1019
Can-guard	B. F. Cockayne and A. L. Baron	516,965	Mar. 30	2045	484	66	1867
Can-head cutting and shaping die	B. W. Morfoot	518,724	Apr. 24	2241	558	67	453
Can-head flanges. Machine for crimping	H. Schaafe	528,306	Oct. 30	2762	667	69	568
Can-head-forming die	N. Troyer	531,451	Dec. 25	2438	580	69	1707
Can-heading machine	J. Gould, Jr.	525,100	Aug. 28	1968	481	68	1065
Can-heading machine	M. Jensen	518,105	Apr. 10	1148	288 289	67	226
Can-heading machine	E. Norton and J. G. Hodgson	522,270	July 3	171	46, 47	68	35
Can-heading machine	D. D. Ranney	515,362	Feb. 27	2299	571	66	1329
Can-holder	W. V. McKenzie	528,259	Oct. 30	2681	646	69	555
Can-key. Self-opening	E. Norton	517,637	Apr. 3	413	100	67	79
Can-labeling machine	C. R. Frazer	529,257	Nov. 13	1319	317 318	69	905
Can-labeling machine	F. X. Gandrie	527,843	Oct. 23	1920	462	69	400
Can-labeling machine	F. Tardif and W. Wethered	524,916	Aug. 21	1612	395 396	68	985
Can-making machine	R. D. Hume	528,673	Nov. 6	274	67	69	695
Can-making machine	A. Johnson and H. C. Black	526,925	Oct. 2	430	106 107	69	80
Can-making machines. Carrier for	R. D. Hume	529,269	Nov. 13	1340	321	69	909
Can-opener	J. Bien	529,249	Nov. 27	2355	562	69	1125
Can-opener	M. Dallas	521,643	June 19	1590	372	67	1517
Can-opener	G. L. Donovan	517,268	Mar. 27	2574	603	66	1984
Can-opener	D. Earl and A. Goodman	515,663	Feb. 27	2777	691	66	1422
Can-opener	C. A. and O. W. Hult	522,213	July 3	69	15	68	14
Can-opener	C. F. Keller	528,371	Oct. 30	2871	695	69	588
Can-opener	T. B. Lepley	511,959	Jan. 2	391	91	66	74
Can-opener	I. W. Low	514,014	Feb. 6	61	15	66	866
Can-opener	C. H. Winchester	515,983	Mar. 6	406	94	66	1528
Can-opener	F. W. Wright	528,582	Nov. 6	99	25	69	664
Can-opener and vegetable-parer. Combined	G. H. Mitchell	528,517	Oct. 30	3118	756	69	632
Can or vessel	G. Brinton	529,677	Nov. 20	2057	493	69	1061
Can-testing machine	J. Black	531,616	Dec. 25	2703	649	69	1760
Can-testing machine	J. B. Clot	522,107	June 26	2411	579	67	1686
Can-testing machine	J. G. Hodgson	522,259	July 3	147	36, 37	68	29
Can-testing machine	W. B. Mann	521,935	June 26	2106	505 506	67	1633
Can-testing machine	D. D. Ranney	528,987	Nov. 13	854	202 203	69	822
Can-top-cleaning machine	C. A. Burt	528,462	Oct. 30	3035	736	69	617
Can-topping machine	C. A. Burt	514,702	Feb. 13	1214	302 303	66	1100
Can-washer	M. Letson and F. Burpee	525,022	Aug. 28	1820	443 444	68	1039
Cans and cooking the contents thereof. Apparatus for filling	F. Strattnr	512,919	Jan. 16	2018	479	66	408
Cans. Apparatus for plugging and topping tomatoes, &c., in	J. T. Sollenberger	512,913	Jan. 16	2009	477	66	407
Cans. Closing	J. Banbury	527,650	Oct. 16	1600	386	69	325
Cans. Direct bail attachment for	F. Westerbeck	512,998	Jan. 16	2142	510	66	431
Cans, &c. Frame for carrying	P. Scholten	521,554	June 19	1438	334	67	1489
Cans. Key for opening metal	A. Kleinfeldt	517,523	Apr. 3	173	39	67	36
Cans. Liquid-emptying device for	A. F. Chable	524,754	Aug. 21	1348	329	68	938
Cans. Manufacture of metallic preserving	A. W. Livingston	517,580	Apr. 3	269	62	67	53
Cans. Pneumatic tester for	W. B. Page. (Reissue)	11,443	Sept. 25	2350	560 561	68	1621
Canning apparatus. Fruit	E. M. Williston	524,052	Aug. 7	135	31	68	687
Canning machinery	E. R. Pruitt	512,323	Jan. 9	979	240	66	197
Canal, sewer, and rain gage or meter. Self-recording	A. J. Grover	530,337	Dec. 4	460	115 116	69	1298
Canal traction device	F. A. Pocock	521,865	June 26	1967	475	67	1605
Canceled machine. Card	A. A. Low	517,051	Mar. 27	2215	525	66	1914
Candle-extinguisher	J. Boyle	529,107	Nov. 13	1050	253	69	857
Candle-extinguisher	D. Curran	515,575	Feb. 27	2638	655	66	1394
Candle-grasp	H. Gläser	531,028	Dec. 18	1658	393	69	1547
Candle-holder	R. H. Hepburn	516,330	Mar. 13	969	229 230	66	1650
Candle-shade holder	R. W. Morgan	521,726	June 19	1728	410	67	1545
Candles. Apparatus for manufacturing hollow	L. J. B. Fournier	521,407	June 12	1161	275 276	67	1424
Candelabrum	A. C. McKercher	518,650	Apr. 24	2097	523	67	428

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Candlestick and match-box. Combined.....	A. Nittinger, Sr.....	531,467	Dec. 25	2463	586	69	1712
Candy. Machine for cutting stick.....	J. M. Allardye.....	531,064	Dec. 18	1753	418	69	1564
Candy scouring and cleaning apparatus.....	G. Carlson.....	527,662	Oct. 16	1617	390	69	328
Candy scouring or cleaning machine.....	G. Carlson.....	527,590	Oct. 16	1503	366	69	307
Candy whistles. Manufacture of.....	C. E. Gardiner.....	530,039	Nov. 27	2698	648	69	1191
Cane and camera-tripod. Combined.....	B. Rahmer.....	513,058	Jan. 16	2229	536	66	443
Cane carriers. Apparatus for charging sugar.....	O. Carr.....	517,730	Apr. 3	528	128	67	103
Cane fabrics. Device for weaving diagonal strands into.....	D. E. Warfield.....	517,082	Mar. 27	2266	129		
Cane-feeders. Electric alarm for.....	A. F. Slingerup.....	511,866	Jan. 2	195	48	66	41
Cane-juice. Defecating.....	J. Koebig.....	517,820	Apr. 3	670	.....	67	130
Cane strips for splicing. Machine for scarfing ends of.....	H. B. Morris.....	517,876	Apr. 10	749	188	67	159
Cane-transferring device. Sugar.....	C. D. Armstrong.....	520,720	May 29	3093	749	67	1171
Cane-transferring device. Sugar.....	A. Sanchez.....	520,271	May 22	2342	568	67	1015
Cane. Umbrella.....	R. Waples, Jr.....	517,315	Mar. 27	2651	569		
Cane. Walking.....	M. Forst.....	524,678	Aug. 14	1214	296	66	1999
Cane-weaving machine. Diagonal.....	H. B. and E. Morris.....	522,740	July 10	978	244	68	201
Canister and measure.....	G. R. Connally.....	522,969	July 17	1368	245		
Canister. Soap-powder.....	B. R. Foster.....	527,329	Oct. 9	1070	339	63	290
Cannon. Breech-loading.....	S. Seabury.....	514,967	Feb. 20	1638	258	69	213
Canopy.....	W. Cole, Jr.....	513,984	Feb. 6	18	411	66	1195
Caut-hook.....	W. L. Gatewood.....	514,455	Feb. 13	792	41	66	854
Canteen.....	M. Lara.....	517,108	Mar. 27	2310	202	66	1020
Caoutchouc-mixing mill.....	G. Watkinson.....	525,638	Sept. 4	525	544	66	1933
Cap, pillow, and life-preserver. Combined.....	F. Frank.....	529,119	Nov. 13	1067	127	68	1249
Capacity of hollow vessels. Apparatus for ascertaining the.....	G. Völlner.....	516,248	Mar. 13	845	258	69	860
Capo tasto.....	L. L. Filstrup.....	514,263	Feb. 6	499	197	66	1626
Capo tasto.....	F. R. and R. Whelan.....	513,165	Jan. 23	2392	122	66	946
Capstan.....	W. H. Harfield.....	515,935	Mar. 6	317	577	66	549
Capsule.....	R. P. Hobbs.....	525,845	Sept. 11	931	76	66	1512
Capsule-closer.....	K. Morstadt.....	514,842	Feb. 13	1445	208	68	1332
Capsule-pin and capsule.....	R. P. Hobbs.....	525,844	Sept. 11	929	364	66	1144
Car air-brake. Street.....	R. S. Judson and G. D. Holmes.....	530,422	Dec. 4	604	207	68	1332
Car and air-brake coupling. Combined.....	S. J. Galloway.....	514,184	Feb. 6	344	150	69	1325
Car and air-brake coupling. Combined.....	G. R. J. Newman.....	514,769	Feb. 13	1325	82	83	66
Car and air-brake coupling. Combined.....	S. W. Summers.....	526,119	Sept. 18	1388	331	66	1121
Car and attachment. Dumping.....	S. W. Beatty.....	529,583	Nov. 20	1916	323	68	1428
Car and pipe coupling. Combined.....	G. T. McCrea.....	512,619	Jan. 9	1469	457	69	1034
Car and train-pipe coupling. Combined.....	W. N. Sewell.....	513,249	Jan. 23	2535	66	66	829
Car antioscillating attachment. Street.....	B. F. Chollar.....	522,929	July 10	1291	611	66	577
Car attachment.....	C. K. Sherwood.....	530,359	Dec. 4	504	320	68	260
Car attachment. Express.....	F. W. Koehler and F. W. Marten.....	525,713	Sept. 11	685	124	69	1367
Car-axles. Means for transmitting power from.....	E. H. Johnson.....	513,046	Jan. 16	2211	158	68	1289
Car bell-cord hanger.....	A. H. Marden.....	518,787	Apr. 24	2343	529	66	444
Car-body bolster.....	L. K. Jewett.....	512,968	Jan. 16	2100	530		
Car-bolster.....	C. T. Westlake.....	514,797	Feb. 13	1371	580	67	472
Car bolster. Railway.....	C. T. Schoen.....	529,809	Nov. 27	2274	498	66	422
Car-brake.....	E. Allen.....	531,287	Dec. 18	2137	345	66	1130
Car-brake.....	T. H. Allen.....	520,384	May 22	2528	543	69	1109
Car-brake.....	S. V. Bahme.....	513,228	Jan. 23	2483	512	69	1634
Car-brake.....	G. F. Brandau.....	513,298	Jan. 23	2611	611	67	1051
Car-brake.....	G. M. Brill.....	513,229	Jan. 23	2484	600	66	593
Car-brake.....	C. W. Carter.....	520,821	June 5	116	633		
Car-brake.....	H. B. Cary.....	517,601	Apr. 3	300	600	66	567
Car-brake.....	G. W. Chandler and J. C. Dale.....	517,916	Apr. 10	820	601	66	567
Car-brake.....	E. Cliff.....	525,533	Sept. 4	355	25	67	1218
Car-brake.....	L. H. Cole.....	517,212	Mar. 27	2487	69	67	172
Car-brake.....	H. E. Collett.....	513,670	Jan. 30	3246	87	68	1217
Car-brake.....	W. Curtiss.....	513,672	Jan. 30	3250	585	66	1967
Car-brake.....	J. T. Duff.....	523,763	July 31	2768	797	66	744
Car-brake.....	K. G. Fieke.....	519,993	May 15	1842	798	66	745
Car-brake.....	F. E. Gilling.....	518,401	Apr. 17	1677	687	68	577
Car-brake.....	R. S. Haines.....	514,926	Feb. 20	1578	450	67	909
Car-brake.....	D. Hazard.....	516,636	Mar. 13	1494	414	67	339
Car-brake.....	A. Hendee.....	512,376	Jan. 9	1065	415	66	1184
Car-brake.....	C. Keiner.....	523,039	July 17	1491	356	66	1747
Car-brake.....	J. Kerwin.....	514,655	Feb. 13	1132	260	66	212
Car-brake.....	G. W. Kramer.....	522,665	July 10	837	371	68	313
Car-brake.....	C. Leach.....	516,684	Mar. 20	1534	283	66	1084
Car-brake.....	P. Leon.....	523,219	July 17	1814	208		
Car-brake.....	S. S. Leonard.....	531,418	Dec. 25	2364	209	68	177
Car-brake.....	G. W. MacKenzie, T. C. Sloane, and M. B. Sloan.....	515,692	Feb. 27	2830	377	66	1781
Car-brake.....	J. Mayer.....	521,034	June 5	497	455	68	372
Car-brake.....	R. W. McKee.....	531,550	Dec. 25	2597	565	69	1693
Car-brake.....	P. McMullen.....	528,302	Oct. 30	2755	704	66	1431
Car-brake.....	M. McNulty.....	523,775	July 31	2787	705	67	1286
Car-brake.....	J. C. Miner.....	526,934	Oct. 2	447	118		
Car-brake.....	F. P. Musser.....	519,587	May 8	1176	119	69	1738
Car-brake.....	H. H. Sessions.....	515,555	Feb. 27	2608	665	69	567
					666	69	567
					692	68	581
					110	69	84
					283	67	773
					646	66	1387
					647		

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Car-brake	J. Smith	514,286	Feb. 6	535	131	66	954
Car-brake	G. F. Steedman and J. H. Brook- mire, Jr.	528,116	Oct. 23	2426	587 588	69	493
Car-brake	J. F. Stevens	511,373	Jan. 2	413	96	66	79
Car-brake	H. Thompson	512,588	Jan. 9	1426	343	66	280
Car-brake	P. D. Van Vradenburg	517,904	Apr. 10	799	200	67	168
Car-brake	S. G. Wilber	526,513	Sept. 25	2086	497	68	1573
Car-brake adjuster	J. Howard	515,079	Feb. 20	1809	456 457	66	1225
Car-brake adjuster	J. W. Winters	517,088	Mar. 27	2279	537 538	66	1927
Car brake and power controller. Electric	A. W. Mitchell	531,268	Dec. 18	2096	503 504	69	1626
Car-brake. Automatic	J. C. Deyerle	526,384	Sept. 25	1859	442	68	1531
Car-brake. Automatic	H. E. Olson	531,131	Dec. 18	1843	437	69	1581
Car brake-beam. Railway	D. L. Barnes	512,497	Jan. 9	1294	311	66	256
Car-brake. Electromagnetic	R. T. Murray and C. M. Allen	525,505	Sept. 4	307	76	68	1209
Car-brake handle.	A. B. Collett	513,033	Jan. 16	2194	524	66	440
Car-brake handle.	J. Marrissett	514,763	Feb. 13	1318	328	66	1119
Car-brake. Hydraulic	W. L. Fitzhugh	527,743	Oct. 16	1753	422	69	353
Car-brake mechanism	W. Lawrence	517,871	Apr. 10	741	186	67	157
Car brake mechanism	B. Wolhaupter	516,257	Mar. 13	858	200	66	1629
Car-brake-operating mechanism	T. F. Kenney	524,329	Aug. 14	615	149	68	792
Car brake. Railway	W. S. G. Baker	530,378	Dec. 4	534	133	69	1312
Car brake. Railway	W. S. G. Baker	530,379	Dec. 4	537	134	69	1313
Car brake. Railway	W. Baxter, Jr.	531,582	Dec. 25	2649	635	69	1748
Car brake. Railway	J. R. Cribbs	528,860	Nov. 6	626	148	69	760
Car brake. Railway	G. W. Dickinson and H. H. Warner	531,588	Dec. 25	2663	639	69	1751
Car brake. Railway	A. Fahrney	530,171	Dec. 4	157	41	69	1244
Car brake. Railway	H. Hinckley	527,749	Oct. 16	1762	424	69	355
Car brake. Railway	G. H. Kinter and G. D. Teller	530,185	Dec. 4	192	47, 48	69	1250
Car brake. Railway	A. F. Letson	531,319	Dec. 25	2197	526	69	1661
Car brake. Railway	L. Roberts	529,082	Nov. 13	1012	244	69	849
Car brake. Railway	G. Rony	530,460	Dec. 4	657	163 164	69	1336
Car brake. Railway	B. W. Smith	512,760	Jan. 16	1744	413	66	357
Car brake. Railway	J. A. Webber	530,912	Dec. 11	1447	344	69	1494
Car-brake-ratchet handle	J. Seeburger	528,492	Oct. 30	3080	747	69	626
Car-brake shoe and dresser	J. E. Warswick	528,198	Oct. 30	2571	622	69	553
Car-brake-staff ratchet	A. D. Gerbig	517,405	Mar. 27	2836	663 664	66	2036
Car-brake system	N. Lombard	523,436	July 24	2180	549	68	455
Car-buffer	C. A. Gould	529,857	Nov. 27	2368	566	69	1127
Car-buffer	W. F. Richards	520,573	May 29	2840	685 686	67	1124
Car-buffer	W. F. Richards	520,574	May 29	2842	686	67	1125
Car-buffer	W. F. Richards	520,575	May 29	2843	686 687	67	1125
Car-buffer	W. F. Richards	524,217	Aug. 7	427	101 102	68	740
Car-buffing mechanism	H. C. Buhoup	517,378	Mar. 27	2755	648	66	2020
Car-chair	E. Pyncheon	516,110	Mar. 6	603	141	66	1565
Car-chair. Reversible	P. Little	521,120	June 5	653	153	67	1314
Car-chair. Revolvable reclining	A. B. Macklin	522,608	July 10	748	129	68	162
Car. Combined sleeping and parlor	L. F. Ruth	529,961	Nov. 27	2542	612 613	69	1158
Car construction	W. E. Coffin	531,510	Dec. 25	2532	605	69	1725
Car construction	L. K. Jewett	512,969	Jan. 16	2102	498 499	66	423
Car construction. Railway	C. A. Smith	530,969	Dec. 18	1556	368 369	69	1528
Car controller. Electric	M. B. Monroe	524,785	Aug. 21	1397	341	68	947
Car. Convertible fruit	D. E. Barton	523,065	July 17	1525	321 322	68	319
Car-coupling	E. N. Anderson	519,520	May 8	1068	256	67	754
Car-coupling	C. H. Andrus	522,095	June 26	2384	574	67	1683
Car-coupling	L. T. Backus	523,564	July 24	2407	603	68	496
Car-coupling	L. T. Backus	531,145	Dec. 18	1871	444	69	1586
Car-coupling	G. W. Barfield	521,094	June 5	614	145	67	1308
Car-coupling	D. L. Barnes	518,873	Apr. 24	2477	613 614	67	497
Car-coupling	G. W. Bartlett	531,430	Dec. 25	2384	570	69	1697
Car-coupling	T. P. Beadle	531,497	Dec. 25	2512	598	69	1721
Car-coupling	C. L. Beck	524,127	Aug. 7	274	64	68	712
Car-coupling	L. O. Beebee	525,327	Sept. 4	7	1	68	1152
Car-coupling	R. Bennett	525,249	Aug. 28	2210	538	68	1108
Car-coupling	C. Bickmeier	518,910	Apr. 24	2549	630	67	511
Car-coupling	O. C. Billman	513,868	Jan. 30	3561	876	66	806
Car-coupling	J. Bird	528,460	Oct. 30	3031	735	69	616
Car-coupling	J. C. Bishop	530,081	Dec. 4	8	3	69	1216
Car-coupling	E. L. Bolles	521,631	June 19	1573	368	67	1514
Car-coupling	B. Bonnans	519,600	May 8	1199	289	67	777
Car-coupling	D. Boyer	520,842	June 5	160	35	67	1236
Car-coupling	V. Brett	516,429	Mar. 13	1139	271	66	1681
Car-coupling	H. Bridge	519,231	May 1	524	126	67	639
Car-coupling	E. D. Bronner	520,765	June 5	6	2	67	1198
Car-coupling	W. Brooking	521,699	June 19	1679	394	67	1534
Car-coupling	W. S. Brooks and T. M. McDon- ough	514,587	Feb. 13	1024	258	66	1063
Car-coupling	P. C. Brown. (Reissue)	11,403	Feb. 6	750	191	66	995
Car-coupling	P. C. Brown	519,300	May 1	646	158	67	662
Car-coupling	D. W. Brunton	515,419	Feb. 27	2398	595	66	1347
Car-coupling	E. Buckley	525,529	Sept. 4	349	86	68	1216
Car-coupling	E. R. Burden	530,065	Nov. 27	2748	659	69	1200

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Car-coupling	W. E. Burriess	513,875	Jan. 30	3575	879	66	808
Car-coupling	R. C. Butts	515,144	Feb. 20	1921	481	66	1246
Car-coupling	E. N. and J. J. Byers	525,734	Sept. 11	725	167	68	1296
Car-coupling	C. B. Calhoun	515,704	Feb. 27	2248	709	66	1435
Car-coupling	T. P. Carroll	519,696	May 15	1362	329	67	820
Car-coupling	W. H. Castle	512,242	Jan. 2	846	205	66	160
Car-coupling	A. G. Clark	529,020	Nov. 13	906	214	69	831
Car-coupling	J. Clark	531,099	Dec. 18	1783	425	69	1569
Car-coupling	J. Cochran, Jr.	518,832	Apr. 24	2417	599	67	484
Car-coupling	F. M. Coombs	520,393	May 22	2539	613	67	1053
Car-coupling	F. M. Coombs	520,394	May 22	2540	614	67	1054
Car-coupling	J. Coup	519,105	May 1	281	67	67	589
Car-coupling	J. Coup	519,106	May 1	284	68	67	590
Car-coupling	A. L. Croft	515,933	Mar. 6	313	75	66	1512
Car-coupling	S. Crowell	515,750	Mar. 6	27	8	66	1460
Car-coupling	W. W. Culbreath	523,268	July 17	1898	477	68	388
Car-coupling	J. Davis	512,466	Jan. 9	1243	300	66	274
Car-coupling	H. Deitz	515,903	Mar. 6	269	62, 63	66	1504
Car-coupling	H. Deitz	521,433	June 12	1,009	286	67	1431
Car-coupling	G. W. Dickey and T. A. Harding	519,700	May 15	1367	330	67	821
Car-coupling	R. Dinsmore	517,448	Apr. 3	62	13	67	14
Car-coupling	P. J. Dockray	515,487	Feb. 27	2497	618	66	1366
Car-coupling	W. F. Drew	526,303	Sept. 18	1708	402	68	1490
Car-coupling	G. M. Dry	511,939	Jan. 2	360	84	66	68
Car-coupling	N. S. Duggan	526,102	Sept. 18	1357	315	68	1423
Car-coupling	H. L. Dunlap	523,626	July 24	2511	630	68	515
Car-coupling	W. Dunlap	518,492	Apr. 17	1826	453	67	366
Car-coupling	A. S. Edey	526,011	Sept. 11	1194	{ 273 } 274	68	1381
Car-coupling	C. E. C. Edey	512,507	Jan. 9	1308	316	66	258
Car-coupling	W. H. Edwards	528,466	Oct. 30	3040	738	69	616
Car-coupling	J. W. Elliott	531,522	Dec. 25	2555	611	69	1729
Car-coupling	F. Enos	515,577	Feb. 27	2640	656	66	1394
Car-coupling	V. Erbach	512,017	Jan. 2	482	115	66	92
Car-coupling	V. Erbach	512,103	Jan. 2	623	150	66	120
Car-coupling	J. Evans	513,098	Jan. 23	2281	551	66	527
Car-coupling	S. J. Ford	518,140	Apr. 10	1201	301	67	235
Car-coupling	T. Forstner	512,286	Jan. 9	923	224	66	187
Car-coupling	H. Gallager	528,124	Oct. 23	2442	591	69	495
Car-coupling	T. M. Gallagher	512,692	Jan. 16	1601	384	66	329
Car-coupling	J. Gates	513,677	Jan. 30	3258	800	66	747
Car-coupling	J. A. Gendron	516,158	Mar. 6	683	161	66	1581
Car-coupling	G. Gladfelter	529,029	Nov. 13	918	218	69	833
Car-coupling	J. D. Gooley	521,262	June 12	906	214	67	1374
Car-coupling	J. Grauvogl	516,680	Mar. 20	1579	376	66	1780
Car-coupling	T. A. Griffith	515,215	Feb. 20	2030	507	66	1266
Car-coupling	D. G. Gross	531,375	Dec. 25	2296	548	69	1680
Car-coupling	L. Grunwald	530,413	Dec. 4	586	146	69	1322
Car-coupling	A. Gudmunsen	516,704	Mar. 13	927	218	66	1643
Car-coupling	J. Haish	514,826	Feb. 13	1413	357	66	1138
Car-coupling	J. R. Hall, Jr.	518,754	Apr. 24	2293	569	67	462
Car-coupling	B. Halstead	515,765	Mar. 6	64	15	66	1465
Car-coupling	R. Haub	515,771	Mar. 6	74	17, 18	66	1467
Car-coupling	B. B. Haydon	530,843	Dec. 11	1335	320	69	1474
Car-coupling	E. Hays	513,395	Jan. 23	2761	673	66	621
Car-coupling	A. R. Heath	519,575	May 8	1159	279	67	770
Car-coupling	J. S. Heaton	529,443	Nov. 20	1670	397	69	990
Car-coupling	I. N. Hinshaw	515,830	Mar. 6	160	39	66	1483
Car-coupling	C. W. Hinton	515,864	Mar. 6	210	50	66	1492
Car-coupling	C. W. Hinton	517,950	Apr. 10	878	220	67	181
Car-coupling	F. H. Hitchcock	526,128	Sept. 18	1400	326	68	1431
Car-coupling	J. W. Holmes	512,029	Jan. 2	501	119	66	96
Car-coupling	O. Hood	522,984	July 17	1394	348	68	295
Car-coupling	T. J. W. Howard	516,159	Mar. 6	684	161	66	1581
Car-coupling	D. Hunt	512,194	Jan. 2	773	188	66	147
Car-coupling	J. C. Hurley	525,549	Sept. 4	391	95	68	1223
Car-coupling	G. W. Jackson, R. Smith, and E. A. Bennett	516,601	Mar. 13	1435	{ 340 } 341	66	1735
Car-coupling	F. Jobert	522,343	July 3	288	75	68	58
Car-coupling	J. Q. A. Johnston	512,114	Jan. 2	645	154	66	124
Car-coupling	T. Johnston	519,861	May 15	1628	396	67	870
Car-coupling	E. W. Kelley	513,019	Jan. 16	2177	519	66	437
Car-coupling	E. W. Kelley	520,601	May 29	2887	698	67	1133
Car-coupling	G. Ker	520,928	June 5	333	81	67	1257
Car-coupling	F. Kerlin	525,658	Sept. 4	566	136	68	1255
Car-coupling	W. K. Kight	522,940	July 10	1310	326	68	263
Car-coupling	E. R. Kirby	530,186	Dec. 4	194	48	69	1250
Car-coupling	J. P. Kirk	523,667	July 31	2595	647	68	547
Car-coupling	C. G. Kleinneck	512,717	Jan. 16	1637	393	66	337
Car-coupling	J. La Burt	518,256	Apr. 17	1413	354	67	291
Car-coupling	A. La Rue	521,376	June 12	1114	263	67	1415
Car-coupling	E. J. Laban	517,753	Apr. 3	570	140	67	110
Car-coupling	J. T. Lampp	523,403	July 24	2128	534	68	446
Car-coupling	J. W. Lang	519,022	May 1	134	33	67	562
Car-coupling	E. Latham	530,697	Dec. 11	1109	269	69	1432
Car-coupling	D. W. Lawhon	516,099	Mar. 6	585	137	66	1562
Car-coupling	G. B. Leonard	525,951	Nov. 13	800	187	69	812
Car-coupling	J. Lessard	529,924	Nov. 27	2472	595	69	1146
Car-coupling	M. Lewis	514,942	Feb. 20	1599	401	66	1188
Car-coupling	J. D. Locke	517,389	Mar. 27	2810	655	66	2031
Car-coupling	B. Lohr	529,396	Nov. 20	1578	375	69	973
Car-coupling	R. F. Ludlow	515,346	Feb. 27	2270	563	66	1323
Car-coupling	R. F. Ludlow	519,721	May 15	1407	340	67	828

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Car-coupling	R. F. Ludlow	519,725	May 15	1408	340	67	828
Car-coupling	H. M. Marquell	516,607	Mar. 13	1445	342	66	1737
Car-coupling	J. McDonogh	530,708	Dec. 11	1123	273	69	1434
Car-coupling	M. McPhail and F. Kopicke	526,632	Sept. 25	2266	543	68	1607
Car-coupling	M. H. Merrill	514,483	Feb. 13	847	216	66	1031
Car-coupling	J. O. Miller	526,250	Sept. 18	1611	378	68	1470
Car-coupling	W. S. Miller	520,443	May 29	2620	634	67	1084
Car-coupling	M. Mills	529,335	Nov. 13	1448	349	69	931
Car-coupling	J. O. Mitchell	521,887	June 26	2002	483	67	1613
Car-coupling	W. H. Mooers and E. A. Richell	526,840	Oct. 2	279	67	69	53
Car-coupling	L. D. Murphy	513,131	Jan. 23	2342	564	66	540
Car-coupling	S. P. Nelson	520,376	May 22	2515	609	67	1049
Car-coupling	W. C. Nelson	521,545	June 19	1421	330	67	1486
Car-coupling	W. Newell	512,738	Jan. 16	1667	400	66	342
Car-coupling	D. D. Nolley	519,092	May 1	262	62	67	586
Car-coupling	G. A. Norcross	529,045	Nov. 13	947	224	69	838
Car-coupling	O. G. Ogden	528,383	Oct. 30	2891	700	69	591
Car-coupling	O. Olmstead	527,392	Oct. 9	1174	288	69	233
Car-coupling	A. C. Packer	530,795	Dec. 11	1264	305	69	1461
Car-coupling	C. W. Patton	517,059	Mar. 27	2230	529	66	1916
Car-coupling	J. H. Pearson	528,798	Nov. 6	491	119	69	735
Car-coupling	S. Pennington	524,863	Aug. 21	1531	374	68	971
Car-coupling	L. Pix	512,661	Jan. 9	1545	371	66	304
Car-coupling	J. W. Ramsey	518,355	Apr. 17	1600	396	67	326
Car-coupling	J. Rawles	512,393	Jan. 9	1101	266	66	220
Car-coupling	H. Raymond	530,055	Nov. 27	2738	656	69	1198
Car-coupling	P. M. Reagan	515,719	Feb. 27	2872	716	66	1439
Car-coupling	J. Reed	525,796	Sept. 11	825	188	68	1315
Car-coupling	J. Reel	530,457	Dec. 4	652	162	69	1335
Car-coupling	C. H. W. Relyea	518,745	Apr. 24	2279	566	67	460
Car-coupling	R. J. Reynolds and G. M. Jones	518,968	May 1	49	13	67	545
Car-coupling	W. H. Robinson	514,964	Feb. 20	1634	409	66	1194
Car-coupling	J. A. Roosevelt	520,380	May 22	2520	610	67	1050
Car-coupling	A. Root	521,529	June 19	1399	323	67	1482
Car-coupling	J. C. Rose	516,943	Mar. 20	2009	474	66	1859
Car-coupling	H. Saamkopf	515,251	Feb. 20	2095	520	66	1278
Car-coupling	H. Schaeffer	527,376	Oct. 9	1148	292	69	228
Car-coupling	J. J. Schairer	536,202	Sept. 18	1538	361	68	1455
Car-coupling	F. Schalcke	527,725	Oct. 16	1721	415	69	348
Car-coupling	E. W. Schmitz and J. Wallmann	516,123	Mar. 6	623	145	66	1569
Car-coupling	L. H. Segrest	517,666	Apr. 3	425	103	67	82
Car-coupling	G. A. Seidel	525,430	Sept. 4	191	48	68	1166
Car-coupling	S. Selden	528,346	Oct. 30	2824	682	69	579
Car-coupling	T. Seyfried	525,234	Aug. 28	2190	534	68	1104
Car-coupling	T. Shea	519,480	May 8	978	236	67	737
Car-coupling	J. L. Shough	524,030	Aug. 7	105	22	68	681
Car-coupling	L. Showalter	525,802	Sept. 11	838	190	68	1317
Car-coupling	D. K. Slawson	515,305	Feb. 20	2194	544	66	1298
Car-coupling	J. W. Smart	513,657	Jan. 30	3231	793	66	741
Car-coupling	C. H. Smith	519,205	May 1	476	116	67	629
Car-coupling	S. T. Smith	518,631	Apr. 24	2063	513	67	422
Car-coupling	S. T. Smith	530,558	Dec. 11	870	214	69	1390
Car-coupling	G. Souer	529,207	Nov. 13	1228	296	69	888
Car-coupling	J. M. Stark	522,954	July 10	1337	332	68	269
Car-coupling	D. J. Stevenson	516,457	Mar. 13	1192	286	66	1691
Car-coupling	C. B. and T. D. Stewart	512,068	Jan. 2	567	134	66	108
Car-coupling	G. F. Sudheimer, F. Thon, and M. Richter	516,458	Mar. 13	1195	286	66	1691
Car-coupling	H. C. Swan	516,881	Mar. 20	1900	449	66	1840
Car-coupling	P. Sweeney	515,603	Mar. 6	121	29	66	1476
Car-coupling	G. Switzer	517,967	Apr. 10	913	229	67	187
Car-coupling	C. H. Taylor	517,670	Apr. 3	436	105	67	83
Car-coupling	H. W. Taylor	529,427	Nov. 20	1633	378	69	983
Car-coupling	J. C. Taylor	512,630	Jan. 9	1484	358	66	292
Car-coupling	G. A. Theobald	522,439	July 3	464	117	68	92
Car-coupling	C. T. Thompson	525,062	Aug. 28	1898	465	68	1054
Car-coupling	W. V. S. Thorne	512,765	Jan. 16	1754	416	66	359
Car-coupling	J. W. Tolar and B. D. Langston	524,919	Aug. 21	1621	397	68	966
Car-coupling	C. A. Tower	521,092	June 5	609	144	67	1307
Car-coupling	H. C. Trask	514,291	Feb. 6	542	133	66	935
Car-coupling	J. D. Tunnell	528,623	Nov. 6	175	43	69	678
Car-coupling	J. W. Unruh	519,747	May 15	1437	347	67	833
Car-coupling	A. W. Van Dorston	517,178	Mar. 27	2429	572	66	1956
Car-coupling	A. W. Van Dorston	517,179	Mar. 27	2433	573	66	1957
Car-coupling	A. J. Walker	525,036	Aug. 28	1848	451	68	1045
Car-coupling	J. A. Ward	516,619	Mar. 13	1465	347	66	1742
Car-coupling	C. Washburn	512,495	Jan. 9	1292	310	66	255
Car-coupling	S. N. Washburn	530,565	Dec. 11	884	217	69	1392
Car-coupling	J. L. Wheeler	512,928	Jan. 16	2034	482	66	411
Car-coupling	J. L. and J. E. White	531,490	Dec. 25	2502	596	69	1719
Car-coupling	W. F. White	514,296	Feb. 6	559	140	66	958
Car-coupling	B. M. Whitlock	517,504	Apr. 3	149	32	67	30
Car-coupling	B. M. Whitlock	517,505	Apr. 3	150	33	67	31

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Car-coupling	B. M. Whitlock	517,506	Apr. 3	152	33	67	31
Car-coupling	D. Wholey	513,961	Jan. 30	3696	{ 910 911	{ 66	833
Car-coupling	S. G. Wilber	513,185	Feb. 20	1982	494	68	1258
Car-coupling	S. G. Wilber	524,452	Aug. 14	851	209	68	834
Car-coupling	W. T. Wilson	521,968	June 26	2172	521	67	1644
Car-coupling	H. A. Winternight	526,550	Sept. 25	2140	513	68	1582
Car-coupling	W. V. Wolcott and H. O'Hara	519,216	May 1	505	122	67	635
Car-coupling	A. I. Worthington	531,492	Dec. 25	2504	596	69	1719
Car-coupling	F. H. Yinger	518,684	Apr. 24	2159	540	67	440
Car coupling and bumper. Combined	W. Wallace	526,796	Oct. 2	210	50	69	40
Car-coupling. Automatic	J. P. McMullan	512,389	Jan. 9	1097	265	66	219
Car-coupling-hook blanks. Making	H. W. Wyman and L. F. Gordon	524,879	Aug. 21	1556	381	68	975
Car-coupling hooks. Die for forging	H. W. Wyman and L. F. Gordon	524,880	Aug. 21	1557	381	68	975
Car-coupling. Link and pin	J. Wright	528,896	Nov. 6	677	163	69	770
Car-coupling safety attachment	J. A. Markley	521,243	June 12	870	206	67	1368
Car-coupling safety device	J. L. Arter	527,136	Oct. 9	751	184	69	154
Car-couplings. Draft-iron for	J. Timms	530,211	Dec. 4	238	59	69	1259
Car-curtain fixture	W. H. Bean	528,501	Oct. 30	3094	750	69	628
Car-door	F. E. Canda	512,004	Jan. 2	459	{ 109 110	{ 66	88
Car-door	R. T. Garland	531,110	Dec. 18	1806	429	69	1574
Car-door	H. E. and H. E. Hoke, Jr.	522,061	June 26	2332	560	67	1673
Car-door	I. V. Kelly	523,211	July 17	1798	451	68	369
Car-door	P. T. Mooney	521,383	June 12	1123	265	67	1416
Car-door	E. L. Phipps	513,414	Jan. 23	2786	622	66	626
Car-door	E. L. Phipps	515,248	Feb. 20	2090	519	66	1277
Car-door	W. L. Ransome	521,296	June 12	965	229	67	1385
Car door. Box	J. L. Wagner	512,074	Jan. 2	580	138	66	110
Car-door bracket	E. A. Hill	527,792	Oct. 23	1841	443	69	387
Car-door fastener	T. Eubank	512,467	Jan. 9	1944	300	66	247
Car door. Freight	J. J. Mulligan	513,336	Jan. 23	2666	646	66	603
Car door. Grain	J. H. Goode, W. H. Anthony, and T. S. Lloyd	515,672	Feb. 27	2788	{ 694 695	{ 66	1424
Car-door-operating mechanism	A. M. King	523,213	July 17	1801	452	68	369
Car doors. Means for operating dumping	N. Barney	515,853	Mar. 6	198	47	66	1490
Car draft-rigging	A. E. Mitchell	517,145	Mar. 27	2366	559	66	1944
Car draft-rigging	A. E. Mitchell	517,146	Mar. 27	2367	559	66	1944
Car draw-bar	J. H. and G. L. Vogan	512,925	Jan. 16	2029	481	66	410
Car draw-bar. Railway	J. A. Sample	512,488	Jan. 9	1281	308	66	254
Car draw-bar. Railway	A. G. Steinbrenner	528,117	Oct. 23	2430	588	69	493
Car draw-gear. Railway	A. J. Shaw	512,756	Jan. 16	1733	{ 411 412	{ 66	355
Car. Dump	P. Peterson	522,026	June 26	2279	546	67	1662
Car. Dump	G. A. Roberts	528,279	Oct. 30	2716	655	69	560
Car-dump	H. P. Williams	514,800	Feb. 13	1376	346	66	1131
Car. Dumping	H. H. Brown	529,108	Nov. 13	1051	253	69	857
Car. Dumping	R. C. Davison	524,520	Aug. 14	1052	259	68	871
Car. Dumping	W. G. Lane	528,546	Nov. 6	39	10	69	553
Car. Dumping	W. McMahon	530,198	Dec. 4	213	53	69	1254
Car. Dumping	W. McMahon	530,199	Dec. 4	215	54	69	1254
Car. Dumping	G. T. Morris	525,741	Sept. 11	732	169	68	1297
Car. Dumping	E. A. Trapp	513,446	Jan. 23	2842	698	66	636
Car. Dumping	E. A. Trapp	513,447	Jan. 23	2846	698	66	636
Car. Dumping	E. A. Trapp	525,727	Sept. 11	708	{ 163 164	{ 68	1293
Car-dumping apparatus	P. H. Hageney	519,257	May 1	572	139	67	648
Car-dumping apparatus	J. M. Phillips	529,305	Nov. 13	1410	{ 337 338	{ 69	922
Car dumping apparatus. Railway	T. Long	527,117	Oct. 9	720	176	69	149
Car-dumping device. Hydraulic	N. H. Pine	514,662	Feb. 13	1145	285	66	1087
Car. Electric-motor	H. P. Brown	518,221	Apr. 17	1362	{ 339 340 341	{ 67	282
Car. Electric-railway	J. C. Henry	524,823	Aug. 21	1467	358	68	960
Car. Elevated-railway	A. L. Widdis	528,407	Oct. 30	2933	{ 709 710	{ 69	598
Car elevator and dumper	L. E. and H. Hoy	529,618	Nov. 20	1965	468	69	1044
Car elevator. Railway	G. T. McLauthlin, M. W. E. Brunk- horst, and M. B. McLauthlin.	524,344	Aug. 14	665	{ 162 163	{ 68	799
Car. Express	F. D. Gildersleeve	516,007	Mar. 6	443	102	66	1535
Car. Express	M. Morell and R. M. Ferrer	526,191	Sept. 18	1510	{ 353 354	{ 68	1450
Car-fender	C. P. Anderson	517,638	Apr. 3	367	87	67	71
Car-fender	A. J. B. Berger	526,851	Oct. 2	296	72	69	56
Car-fender	C. Bersch	519,562	May 8	1131	272	67	765
Car-fender	H. G. Chatain	522,149	June 26	2488	597	67	1702
Car-fender	A. L. Clarke	522,194	July 3	14	4	68	5
Car-fender	W. V. Cleary	522,449	July 3	477	121	68	95
Car-fender	B. Cron and W. von Münchhausen	520,354	May 22	2479	601	67	1041
Car-fender	S. A. Darrach	525,977	Sept. 11	1144	260	68	1372
Car-fender	J. T. Duff	524,316	Aug. 14	595	143	68	789
Car-fender	W. F. Duncker	529,370	Nov. 20	1524	365	69	964
Car-fender	H. W. Eaton	525,592	Sept. 4	457	109	68	1236
Car-fender	G. W. Engel and W. C. Joram	531,026	Dec. 18	1656	{ 392 393	{ 69	1546
Car-fender	W. B. George	531,374	Dec. 25	2294	547	69	1679
Car-fender	E. B. Graff	529,260	Nov. 13	1325	318	69	906
Car-fender	C. R. Hall	523,427	July 24	2162	545	68	452
Car-fender	F. S. Hogg	523,526	July 24	2356	591	68	486
Car-fender	A. H. Jelly	519,472	May 8	968	{ 233 234	{ 67	735
Car-fender	W. G. Kerr	528,298	Oct. 30	2750	664	69	566
Car-fender	A. Kidd	524,175	Aug. 7	354	83	68	726

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Car-fender	S. C. Kindig	519,128	May 1	338	60	67	603
Car-fender	L. Q. C. Lamar	522,905	July 10	1249	309	68	252
Car-fender	M. and V. F. Maidhof	522,070	June 26	2347	564	67	1676
Car-fender	J. McCarthy	529,041	Nov. 13	939	222	69	837
Car-fender	J. F. McDonough	524,503	Aug. 14	926	229	68	848
Car-fender	W. V. McManus	518,115	Apr. 10	1166	293	67	229
Car-fender	G. W. Oakley	529,460	Nov. 20	1702	406	69	995
Car-fender	H. B. Ogden	527,715	Oct. 16	1701	409	69	344
Car-fender	R. Raphael	527,004	Oct. 2	543	133	69	102
Car-fender	W. J. Rau	520,335	May 22	2448	594	67	1036
Car-fender	W. F. S. Robinson	525,285	Aug. 23	2271	553	68	1192
Car-fender	T. Ross	525,516	Sept. 4	327	81	68	1212
Car-fender	J. Rumrell	524,841	Aug. 21	1501	367	68	965
Car-fender	W. L. Shockley	526,949	Oct. 2	463	114	69	87
Car-fender	A. D. Smith	531,395	Dec. 25	2326	555	69	1686
Car-fender	E. J. Smith	523,551	July 24	2387	599	68	492
Car-fender	C. E. Struck	525,167	Aug. 23	2095	510	68	1087
Car-fender	C. F. Thomas	518,904	Apr. 24	2538	628	67	509
Car-fender	E. Thomas	523,693	July 31	2639	655	68	554
Car-fender	R. Thomson	524,918	Aug. 21	1618	397	68	986
Car-fender	J. Tobin	521,741	June 19	1752	416	67	1549
Car-fender	E. B. and F. S. Towne	530,140	Dec. 4	106	28	69	1234
Car-fender	B. Tranter	518,126	Apr. 10	1181	296	67	231
Car-fender	H. P. Weale	528,048	Oct. 23	2306	556	69	471
Car-fender	F. D. Weber	529,052	Nov. 13	960	227	69	840
Car-fender	S. D. Wright	528,057	Oct. 23	2321	560	69	473
Car-fender and automatic brake	W. L. Fitzhugh	517,798	Apr. 3	637	159	67	124
Car fender and brake	H. Maass	522,530	July 3	603	154	68	119
Car fender and brake. Combined	H. W. Evans	525,071	Aug. 28	1914	469	68	1057
Car fender and brake. Street	J. S. Detrick	523,766	Nov. 6	433	105	69	725
Car fender. Automatic street	J. T. Van Gestel	531,234	Dec. 18	2039	486	69	1615
Car fender or guard. Street or railway	E. Kemnitz	524,207	Aug. 7	412	98	68	736
Car fender. Railway	J. W. T. Gilliam	520,230	May 22	2270	552	67	1001
Car fender. Railway	J. W. Madden	520,739	May 29	3123	756	67	1176
Car fender. Railway	J. E. McBride	520,857	June 5	189	42	67	1231
Car-fender. Safety	F. I. Clark	520,255	May 22	2314	561	67	1009
Car-fender. Safety	F. De Fontes	515,198	Feb. 20	1998	493	66	1260
Car-fender. Safety	W. R. Fowler	515,581	Feb. 27	2646	657	66	1396
Car-fender. Safety	D. Harding and W. L. Fitzhugh	522,412	July 3	409	104	68	81
Car-fender. Safety	G. Latz	514,234	Feb. 6	447	107	66	936
Car-fender. Safety	W. J. Ogden	515,157	Feb. 20	1939	485	66	1249
Car-fender. Safety	F. H. Reich	521,670	June 19	1632	382	67	1526
Car-fender. Safety	G. C. Schmidt	519,648	May 8	1284	307	67	791
Car-fender. Safety	G. Q. Seaman, A. Wilson, and W. Jones	516,408	Mac. 13	1107	263	66	1674
Car-fender. Safety	A. W. Stiefel	518,796	Apr. 24	2356	584	67	474
Car fender. Street	A. F. Boardman	529,357	Nov. 20	1490	358	69	959
Car fender. Street	W. H. Brock	515,728	Feb. 27	2883	719	66	1442
Car fender. Street	W. H. Brock	531,258	Dec. 18	2079	497	69	1623
Car fender. Street	T. Davies	516,266	Mar. 13	874	205	66	1632
Car fender. Street	H. Griesser	529,726	Nov. 27	2142	513	69	1085
Car fender. Street	H. C. Kennedy and G. W. Rolet-ter	529,275	Nov. 13	1349	323	69	910
Car fender. Street	R. C. Lothrop	515,868	Mar. 6	216	51	66	1494
Car fender. Street	W. W. Peay	515,609	Feb. 27	2690	669	66	1404
Car fender. Street	T. C. Rice	524,734	Aug. 21	1314	322	68	932
Car fender. Street	H. F. Rooney	518,926	Apr. 24	2576	637	67	515
Car fender. Street-railway	J. B. Bailey	519,803	May 15	1534	374	67	852
Car fender. Street-railway	A. J. Hollingsworth and J. A. Weaver	525,902	Sept. 11	1022	231	68	1350
Car fender. Street-railway	E. J. Smith	517,894	Apr. 10	779	195	67	164
Car fender. Tram	W. Dryden	524,198	Aug. 7	396	94	68	734
Car fender. Tram	F. S. Hogg	518,571	Apr. 17	1965	485	67	390
Car fender. Tram	S. J. Rosenfeld	521,672	June 19	1674	383	67	1526
Car fender. Trolley	C. F. Haug	530,223	Dec. 4	260	65	69	1262
Car fender. Trolley or other	E. Bockman and J. E. Hagan	524,883	Aug. 21	1564	382	68	976
Car for elevated structures	H. W. Kirchner and G. N. Chase	513,268	Jan. 23	2570	620	66	585
Car. Freight	J. J. McCliment and P. Marron	521,036	June 5	501	119	67	1287
Car. Freight	G. T. Morris	512,734	Jan. 16	1658	398	66	340
Car. Freight	J. Rhoads	526,261	Sept. 18	1629	382	68	1473
Car. Fruit	H. A. Smith	513,308	Jan. 23	2455	593	66	561
Car-gate	A. M. Black	526,214	Sept. 18	1536	365	68	1459
Car-gate attachment. Railway	H. Tesseyman	514,519	Feb. 13	911	230	66	1042
Car grain-door. Box	C. F. Langell	518,528	Apr. 17	1894	460	67	378
Car grip. Cable	W. H. Russell	513,283	Jan. 23	2588	626	66	588
Car-grip slot-brake. Cable	J. T. Marlin	526,453	Sept. 25	2000	477	68	1536
Car-guard	G. Boehm	522,003	June 26	2247	539	67	1656
Car-guard	J. H. Jennings	526,532	Sept. 25	2114	506	68	1577
Car guard. Street	C. A. Barrett	523,507	July 24	2322	585	68	479
Car. Hand	C. Benesh	514,844	Feb. 13	1449	365	66	1144
Car. Hand	J. McMurrin	525,919	Sept. 11	1049	238	68	1354
Car. Hand	C. Roberts	514,729	Feb. 13	1266	316	66	1109
Car. Hand	T. Talbot	522,438	July 3	462	117	68	92
Car-heater	R. M. Dixon	522,923	Nov. 13	758	177	69	805

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Car-heater	E. H. Gold	529,723	Nov. 27	2137	{ 511 512	69	1085
Car-heater	G. W. Rodgers	519,644	May 8	1279	{ 307 308	67	791
Car heater and ventilator	L. A. Peckham	531,553	Dec. 25	2613	{ 625 626	69	1741
Car heater. Street	M. K. Bowen	529,158	Nov. 13	1137	{ 275 276	69	873
Car-heating apparatus	J. F. McElroy	523,588	July 24	2447	{ 613 614	68	503
Car-heating system	E. H. Gold	528,158	Oct. 30	2498	{ 604 605	69	520
Car indicator. Electric	H. C. Beckmann	515,274	Feb. 20	2134	{ 530 531	66	1286
Car-jack	W. Jewell	524,440	Aug. 14	828	{ 202 203	68	830
Car life-guard	J. J. Beals	522,099	June 26	2395	{ 576 577	67	1684
Car life-guard	J. Schneider	531,391	Dec. 25	2320	{ 554 555	69	1685
Car life-guard. Street	J. Campbell	519,402	May 8	851	{ 206 207	67	715
Car life-guard. Street	M. W. Lydon	529,657	Nov. 20	2029	{ 486 487	69	1055
Car life-guard. Street	T. Euphrat	514,749	Feb. 13	1297	{ 323 324	66	1115
Car life-guard. Street	G. A. Parmenter and C. S. Gooding	523,683	July 31	2622	{ 651 652	68	551
Car life-guard. Street	J. F. Ryan	527,813	Oct. 23	1869	{ 449 450	69	392
Car life-saver	F. M. Chapman	524,190	Aug. 7	377	{ 89, 90 91	68	730
Car life-saving guard	L. E. Dubois	527,270	Oct. 9	974	{ 236 237	69	195
Car-lighting	I. N. Lewis	516,496	Mar. 13	1255	{ 300 301	66	1702
Car-lighting	W. M. Miner	516,336	Mar. 13	977	{ 232 233	66	1651
Car lighting, heating, &c. System of	I. N. Lewis	516,495	Mar. 13	1251	{ 300 301	66	1702
Car lighting or heating system	C. R. Arnold	520,403	May 29	2559	{ 619 620	67	1073
Car-lighting system. Electric	W. Biddle and P. Kennedy	517,998	Apr. 10	976	{ 243 244	67	196
Car-loader	F. W. Bond	512,575	Jan. 9	1402	{ 339 340	66	276
Car-loading machine	T. Beck	515,181	Aug. 28	2116	{ 515 516	68	1090
Car-lock	C. E. Buckley	525,256	Aug. 28	2320	{ 540 541	68	1110
Car. Mail and express	F. Rowley	530,243	Dec. 4	295	{ 73 74	69	1269
Car. Mail or express	W. D. Patterson	517,234	Mar. 27	2518	{ 591 592	66	1973
Car. Mail or express	C. Zimmerman	518,477	Apr. 17	1809	{ 448 449	67	363
Car mechanism for operating switches. Street	E. A. Barber and A. B. Babbitt	527,262	Oct. 9	956	{ 232 233	69	192
Car-motor. Electric	N. C. Bassett	527,927	Oct. 23	2079	{ 497 498	69	429
Car motor. Electric-railway	J. C. Henry	521,651	June 19	1600	{ 374 375	67	1519
Car-motor. Electrohydraulic	C. E. Emery	519,469	May 8	961	{ 232 233	67	734
Car-motor. Steam	J. A. Barhydt	528,067	Oct. 23	2334	{ 563 564	69	476
Car motor. Street	H. S. Park	528,796	Nov. 6	484	{ 118 119	69	734
Car motor. Street	J. Radomski	531,275	Dec. 18	2109	{ 506 507	69	1628
Car-mover	A. Kuebeler	528,171	Oct. 30	2521	{ 610 611	69	525
Car or locomotive fender	J. B. Krause and R. H. Crosby	521,503	June 19	1352	{ 314 315	67	1475
Car. Ore	M. C. Ensuing and J. W. Smitham	512,173	Jan. 2	741	{ 180 181	66	141
Car. Ore	C. G. Soderstrom	515,306	Feb. 20	2195	{ 544 545	66	1298
Car-pilot	R. A. Crawford	522,932	July 10	1297	{ 323 324	68	261
Car pilot or guard	E. A. Crawford	521,307	June 12	987	{ 233 234	67	1389
Car-platform	J. Krebbiel	528,170	Oct. 30	2519	{ 610 611	69	525
Car-platform	L. S. Manning	515,600	Feb. 27	2676	{ 665 666	66	1401
Car-platform door	L. S. Manning	515,602	Feb. 27	2679	{ 665 666	66	1402
Car-platform gate	J. Krebbiel	519,066	May 1	219	{ 51, 52 53	67	578
Car poling device. Railway	W. C. Boswell	529,060	Nov. 13	972	{ 229 230	69	843
Car protector. Automatic railway	C. Klettner	528,254	Oct. 30	2672	{ 643 644	69	553
Car provided with fenders	A. H. Jelly	519,714	May 15	1391	{ 336 337	67	826
Car. Railway	E. G. Allen	513,471	Jan. 30	2893	{ 713 714	66	681
Car. Railway	G. W. Bancroft	529,012	Nov. 13	897	{ 211 212	69	829
Car. Railway	C. H. Barrows	528,945	Nov. 6	594	{ 140 141	69	754
Car. Railway	H. C. Buhoup	515,322	Feb. 27	2234	{ 553 554	66	1317
Car. Railway	O. G. Cates, Jr	517,517	Apr. 3	166	{ 37 38	67	34
Car. Railway	H. K. Ingram	513,235	Jan. 23	2503	{ 604 605	66	571
Car. Railway	P. M. Kling	516,935	Mar. 20	1995	{ 469 470	66	1856
Car. Railway	M. Le Grand	514,196	Feb. 6	373	{ 89 90	66	924
Car. Railway	H. W. Libbey	523,435	July 24	2178	{ 549 550	68	455
Car. Railway	C. H. Newbury	514,332	Feb. 6	612	{ 155 156	66	968
Car. Railway	C. A. Smith	524,355	Aug. 14	663	{ 166 167	68	802
Car. Railway	J. Timms	514,634	Feb. 13	1102	{ 274 275	66	1078
Car. Railway passenger	J. Krebbiel	526,156	Sept. 18	1449	{ 338 339	68	1440
Car register. Street	E. Catlin and G. Rein	530,067	Nov. 27	2751	{ 660 661	69	1200
Car register. Street	W. D. Forbes	526,567	Sept. 25	2168	{ 518 519	68	1587
Car-replacer	R. E. Alexander	523,563	July 24	2406	{ 602 603	68	495
Car-replacer	C. W. Archer	515,946	Mar. 6	333	{ 80 81	66	1515
Car-replacer	A. S. Debose	514,816	Feb. 13	1399	{ 352 353	66	1136
Car-replacer	F. W. Reaney	513,531	Jan. 30	3014	{ 744 745	66	703
Car-replacer	P. J. Schmidt and G. Weber	515,620	Feb. 27	2709	{ 674 675	66	1408
Car-roof	C. M. Jennings	521,087	June 5	599	{ 141 142	67	1305
Car running-gear	W. H. Daniell	518,752	Apr. 24	2290	{ 569 570	67	462
Car safety apparatus. Street	J. J. Andrews and T. Mott	527,646	Oct. 16	1595	{ 385 386	69	324
Car safety appliance. Street-railway	O. R. Routh	521,477	June 19	1303	{ 304 305	67	1466
Car safety attachment. Street	H. A. Howe	520,233	May 22	2274	{ 553 554	67	1002
Car safety attachment. Street	H. A. Howe	515,588	Feb. 27	2558	{ 650 651	66	1398
Car safety device. Electric	J. M. Kelly	528,438	Oct. 30	2984	{ 721 722	69	607
Car. Safety express	B. J. Tegethoff	525,634	Sept. 4	517	{ 125 126	68	1248

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Car safety-gate. Railway.....	T. J. Morgan.....	516,505	Mar. 13	1274	{ 303 304 }	{ 66 67 }	1706
Car safety-guard.....	J. W. Betz.....	522,100	June 26	2397	576	67	1685
Car safety-guard.....	A. Soffel.....	521,966	June 26	2169	520	67	1643
Car safety-guard.....	F. Zorn.....	529,095	Nov. 13	1035	{ 249 250 }	{ 69 68 }	854
Car safety-guard. Freight.....	M. Fitzsimmons.....	517,519	Apr. 3	169	38	67	35
Car safety-guard. Open.....	W. H. Hart.....	517,339	Mar. 27	2691	{ 631 632 }	{ 66 67 }	2007
Car safety-guard. Railway.....	W. J. Foster.....	512,181	Jan. 2	749	{ 182 183 }	{ 66 67 }	143
Car safety-guard. Street.....	G. T. Foster.....	514,121	Feb. 6	227	52, 53	66	897
Car safety-guard. Street.....	D. A. Freeman.....	530,174	Dec. 4	161	42	69	1244
Car safety-guard. Street.....	S. Norton.....	519,046	May 1	174	42	67	570
Car safety-guard. Street.....	S. Norton and W. H. Rice.....	521,294	June 12	962	228	67	1384
Car safety-guard. Street.....	W. H. Rice.....	525,115	Aug. 28	1992	487	68	1069
Car. Safety non-telescoping railway.....	L. M. Worden.....	514,142	Feb. 6	266	66	66	903
Car. Safety railway.....	C. R. McManis.....	518,854	Apr. 24	2447	606	67	490
Car safety-stop.....	A. B. Trenner.....	512,341	Jan. 9	1007	246	66	202
Car sand-box.....	A. Garing.....	528,904	Nov. 6	711	168	69	776
Car sand-box.....	E. Heiz.....	529,444	Nov. 20	1671	398	69	990
Car sand-box.....	H. McPherson.....	512,480	Jan. 9	1267	305	66	251
Car sand-boxes. Electric heater for.....	J. M. Christopher.....	520,253	May 22	2230	560	67	1009
Car sand-delivering mechanism. Street.....	A. Parrant.....	527,446	Oct. 16	1260	310	69	263
Car sanding device.....	J. Ballard.....	516,515	Mar. 13	1295	309	66	1709
Car sanding device.....	C. E. Holbert.....	517,044	Mar. 27	2191	519	66	1910
Car sanding device.....	I. Mowder.....	519,818	May 15	1555	381	67	856
Car sanding device.....	H. F. Rooney.....	524,735	Aug. 21	1316	322	68	932
Car sanding device. Street.....	W. C. Fisher.....	531,613	Dec. 25	2705	648	69	1759
Car-seat.....	M. N. Forney.....	527,842	Oct. 23	1916	{ 460 461 }	{ 69 68 }	400
Car-seat.....	P. Little.....	521,121	June 5	654	154	67	1315
Car-seat.....	A. Sekyra.....	515,098	Feb. 20	1834	463	66	1230
Car-seat.....	M. Weber.....	512,240	Jan. 2	842	204	66	159
Car-seat.....	C. Wowra.....	527,095	Oct. 9	678	{ 167 168 }	{ 69 68 }	142
Car-seat. Folding.....	W. Sutton.....	531,573	Dec. 25	2635	631	69	1746
Car-seat locking and turning apparatus.....	J. S. Winsor.....	519,370	May 8	794	{ 194 195 }	{ 67 66 }	705
Car seat. Railway.....	E. B. Cushing.....	512,539	Jan. 9	1349	325	66	266
Car seat. Railway.....	J. Krebbel.....	515,832	Mar. 6	162	39	66	1483
Car-seat. Reversible.....	S. Hoffman.....	531,122	Dec. 18	1827	{ 433 434 }	{ 69 68 }	1578
Car-seat. Reversible.....	J. Lemman.....	515,937	Mar. 6	319	76	66	1513
Car-seat. Reversible.....	R. H. Weatherly.....	522,173	June 26	2526	606	67	1710
Car-signal.....	F. Nicholson.....	525,357	Sept. 4	56	16	68	1161
Car signal-light. Street.....	J. A. Trimble.....	512,921	Jan. 16	2023	{ 479 480 }	{ 66 67 }	409
Car signaling apparatus. Street.....	G. B. St. John.....	527,461	Oct. 16	1298	317	69	271
Car spring-buffer. Street.....	H. A. Howe.....	527,203	Oct. 9	853	208	69	174
Car-standard.....	A. Johnson.....	520,434	May 29	2608	631	67	1082
Car-starter.....	T. C. Wright.....	530,150	Dec. 4	123	32	69	1238
Car starter and brake.....	R. Clegg.....	520,134	May 22	2106	{ 512 513 514 }	{ 67 68 67 }	971
Car starter and brake.....	C. H. O. Leverkus.....	518,371	Apr. 17	1635	403	67	331
Car starter and propeller. Electric.....	E. Schmitz and J. Mendenhall.....	513,598	Jan. 30	3120	767	66	723
Car-step.....	L. S. Manning.....	515,599	Feb. 27	2674	664	66	1401
Car. Stock.....	J. M. Burton.....	525,314	Aug. 28	2319	562	68	1130
Car. Street.....	P. M. Kling.....	516,934	Mar. 20	1394	469	66	1856
Car. Street.....	W. F. S. Robinson.....	525,284	Aug. 28	2270	553	68	1122
Car. Street.....	T. H. Wickes.....	515,567	Feb. 27	2623	{ 651 652 653 }	{ 66 67 66 }	1390
Car switch-actuator. Street.....	F. Sparling.....	518,972	May 1	56	14	67	547
Car switch-operating device. Railway.....	B. B. Breed.....	525,253	Aug. 28	2216	539	68	1109
Car switching device. Street.....	J. Brautigam.....	526,481	Sept. 25	2041	486	68	1563
Car. Tank.....	E. W. Mackenzie-Hughes.....	512,297	Jan. 9	939	{ 228 229 230 }	{ 66 67 66 }	190
Car-tilting device.....	U. Frantz.....	529,549	Nov. 20	1863	{ 442 443 }	{ 69 68 }	1024
Car transfer device. Cable.....	J. T. Schweizer and J. H. Burger.....	512,910	Jan. 16	1999	474	66	405
Car-transom.....	T. C. Salveter.....	523,378	July 24	2080	524	68	438
Car. Trolley.....	H. J. Lycett.....	522,224	July 3	85	19, 20	68	17
Car-unloading device.....	G. H. Huelt.....	516,053	Mar. 6	520	{ 121 122 }	{ 66 67 }	1549
Car. Ventilated freight.....	W. T. Cottier.....	517,794	Apr. 3	632	158	67	123
Car-ventilating apparatus.....	G. A. Geer.....	526,702	Oct. 2	55	14	69	13
Car-ventilating device.....	C. B. Hutchins.....	521,617	June 19	1548	362	67	1509
Car-ventilator.....	G. A. Boyden.....	518,220	Apr. 17	1360	339	67	282
Car-ventilator.....	O. H. Goldberg.....	527,241	Oct. 9	921	232	69	186
Car-ventilator.....	B. F. Hughson.....	527,987	Oct. 23	2207	532	69	452
Car-ventilator.....	T. L. Merrill.....	516,058	Mar. 6	531	123	66	1551
Car-ventilator.....	A. A. Miller.....	513,407	Jan. 23	2776	678	6	624
Car. Ventilator.....	H. H. Love.....	528,231	Oct. 30	2633	635	69	545
Car-ventilator. Filtering.....	C. E. Robbins.....	514,277	Feb. 6	518	127	66	951
Car ventilator. Railway passenger.....	J. Krebbel.....	523,167	July 17	1737	432	62	356
Car-vestibule.....	G. Abel.....	515,510	Feb. 27	2328	{ 626 627 }	{ 66 67 }	1372
Car-vestibule.....	L. S. Manning.....	515,601	Feb. 27	2677	665	66	1402
Car. Vestibule.....	J. Meehan.....	512,513	Jan. 9	1317	318	66	260
Car. Vestibule.....	W. F. Richards.....	526,540	Sept. 25	2125	509	68	1579
Car-vestibule diaphragm.....	H. C. Buhoup.....	530,745	Dec. 11	1186	299	69	1445

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Car-vestible diaphragm or face-plate.....	H. C. Buhoup	526,803	Oct. 2	218	52, 53	69	41
Car-wheel	L. J. Hirt	521,587	June 19	1498	351	67	1500
Car-wheel	C. Roberts	528,278	Oct. 30	2715	654	69	560
Car-wheel	L. Roll	513,623	Jan. 30	3165	777	66	730
Car-wheel	N. Washburn	513,546	Jan. 30	3036	748	66	708
Car-wheel	H. X. Zimmerman	512,855	Jan. 16	1914	452	66	389
Car-wheel-fender	G. Blakistone	513,702	Jan. 30	3304	814	66	755
Car-wheel fender	S. A. Breen	518,642	Apr. 24	2087	520	67	426
Car wheel fender or guard	G. Blakistone	513,701	Jan. 30	3303	813	66	755
Car-wheel-grinding machine	W. P. Barclay	518,730	Apr. 24	2254	{ 560 561 }	67	455
Car wheel-guard	D. R. Howard	515,289	Feb. 20	2166	538	66	1293
Car-wheel guard or fender	J. F. Morton	519,289	May 1	626	{ 152 153 }	67	658
Car-wheel lubricator	J. W. Renean	527,447	Oct. 16	1261	310	69	262
Car-wheels. Apparatus for manufacturing	J. Parkinson, Sr	522,084	June 26	2371	570	67	1680
Car-wheels. Chill for cast-iron	P. Connelly	530,884	Dec. 11	1404	334	69	1486
Car-wheels. Making	W. A. Pearson	521,321	June 12	1011	238	67	1394
Car-wheels. Making composite	N. Washburn	522,633	July 10	793	198	68	170
Car-wheels. Manufacturing	A. J. Fisher	521,787	June 26	1846	440	67	1582
Car-wheels. Pattern for making	J. J. Carr	512,945	Jan. 16	2062	488	66	416
Cars. Adjustable gate for street	L. R. Godwin	524,040	Aug. 7	118	26	68	584
Cars. Air-pipe coupling for railway	W. H. Conrad	516,481	Mar. 13	1228	294	66	1697
Cars. Antifriction side bearing for	L. K. Jewett	511,955	Jan. 2	386	90	66	73
Cars. Apparatus for generating electricity for light- ing railway	T. A. Murray	529,563	Nov. 20	1882	448	69	1028
Cars. Apparatus for heating railway	H. R. Towne	512,239	Jan. 2	840	204	66	159
Cars at intersecting points. Transferring cable- ble	J. Kratz	520,364	May 22	2499	605	67	1046
Cars. Automatic dump for unloading	C. D. Matheny	527,868	Oct. 23	1973	474	69	409
Cars. Awning or curtain for open	E. T. Burrowes	516,762	Mar. 20	1715	404	66	1203
Cars by electricity. System of lighting and heating	M. Moskowitz	525,992	Sept. 11	1166	{ 265 266 }	68	1376
Cars. Combined brake and electric switch for street- railway	G. Brown	525,782	Sept. 11	799	184	68	1310
Cars. Combined reinforce dash-post and grab-handle for	W. Sutton	516,948	Mar. 20	2018	477	66	1861
Cars. Controller for electric-railway	W. H. Knight	518,254	Apr. 17	1410	353	67	290
Cars. Controlling device for electric-railway	W. H. Conrad	525,336	Sept. 4	19	4, 5	68	1155
Cars. Curtain-rod fixture for sleeping	J. Kirby, Jr	518,958	May 1	34	9	67	542
Cars, &c. Device for prevention of accidents on street	A. McKehe	525,055	Aug. 28	1888	462	68	1051
Cars. Draft-rigging for platform	C. C. Borton	524,817	Aug. 21	1458	356	68	958
Cars. Electric-lighting system for railway	M. Moskowitz	531,421	Dec. 25	2369	567	69	1694
Cars. Electric motor for street	B. Baxter, Jr	516,516	Mar. 13	1296	{ 309 310 }	66	1709
Cars. Electric motor for street	B. G. Lamme	513,401	Jan. 23	2769	676	66	622
Cars. Electrical propulsion of railway	J. J. Heilmann	519,674	May 8	1317	{ 316 317 }	67	798
Cars. Electrically-operated street-indicator for	H. C. Barker	514,878	Feb. 13	1501	377	66	1154
Cars. Entrance-guard for open	J. A. Brill	531,407	Dec. 25	2343	559	69	1689
Cars. Flexible belt-fender for street-railway	R. B. Chambers	522,147	June 26	2485	596	67	1702
Cars. Heating and ventilating apparatus for street- railway	J. A. Long	511,961	Jan. 2	393	91, 92	66	75
Cars. Lumber-jack for railway	C. D. Clarke	521,100	June 5	622	146	67	1309
Cars. Machine for moving railway	E. W. Ringrose	527,374	Oct. 9	1146	281	69	228
Cars. Means for replacing derailed	W. J. Knight	526,715	Oct. 2	77	20	69	17
Cars. Means for suspending electric motors from	R. Lundell	522,067	June 26	2342	{ 562 563 }	67	1675
Cars. Metallic draft-sill for	T. C. Salveter	512,329	Jan. 9	991	243	66	199
Cars. Method of and means for controlling elec- tric	H. P. Davis	527,947	Oct. 23	2123	509	69	438
Cars. Reversible driving-gear for	J. Hopkirk	529,268	Nov. 13	1338	321	69	908
Cars. Safety appliance for street-railway	F. W. Jenkins	521,981	June 26	2206	530	67	1650
Cars. Safety-fender for tram, electric, or cable	H. S. Robins	525,233	Aug. 28	2188	534	68	1104
Cars. Safety-wrench for unloading	T. Nicholson, Jr	518,533	Apr. 17	1901	470	67	379
Cars. Shipping rack and frame for	W. R. Phillips	520,270	May 22	2340	{ 567 568 }	67	1015
Cars. Side bearing for	J. H. Campbell	530,579	Dec. 11	907	222	69	1397
Cars. Switch for electric-railway	T. A. Remsen	524,532	Aug. 14	976	239	68	856
Cars. Switch-operating device for tram	A. C. L. Engstfeld	530,302	Dec. 4	398	{ 100 101 }	69	1287
Cars. System for warming fruit	J. F. McElroy	516,356	Mar. 13	1015	{ 240 241 }	66	1659
Cars. Temperature-regulator for fruit	J. F. McElroy	514,664	Feb. 13	1475	{ 370 371 }	66	1150
Cars. Testing-indicator for electric-railway	T. Stebbins	526,644	Sept. 25	2290	549	68	1611
Cars. Ventilating railway	R. M. Pancoast	515,608	Feb. 27	2689	{ 668 669 }	66	1404
Cars. Wheel-fender and safety attachment for street- of	F. H. Homan	522,115	June 26	2421	{ 581 582 }	67	1689
Carbon brushes. Apparatus for the manufacture of	J. W. Taylor	526,951	Oct. 2	465	114	69	88
Carbon. Electric-light	E. G. Acheson	527,826	Oct. 23	1888	453	69	395
Carbon filaments. Manufacture of	T. A. Edison	535,007	Aug. 23	1796	438	68	1035
Carbon-machine	C. S. Britton	511,751	Jan. 2	18	5	66	6
Carbon-mold	C. S. Britton	511,750	Jan. 2	17	5	66	6
Carbon switch	F. von Hejner-Alteneck	520,263	May 22	2329	565	67	1012
Carbons for electric lamps. Manufacture of	T. A. Edison	535,688	Sept. 11	1004	226	68	1346
Carbonating apparatus. Fluid	L. W. Puffer	522,673	July 10	849	{ 211 212 }	68	180
Carbonating-column	J. R. and H. Watson	523,390	July 24	2099	528	68	441
Carbonating liquids. Apparatus for	C. F. A. Convert	516,590	Mar. 13	1415	335	66	1731

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Carbonating liquids. Apparatus for	H. S. Ferry	530,071	Nov. 27	2759	{ 661 662 }	69	1201
Carbonating liquids. Method of and means for	H. S. Ferry	530,070	Nov. 27	2757	661	69	1201
Carbureting air. Process of and apparatus for	S. Hibbs	511,950	Jan. 2	379	88	66	72
Carbureting apparatus. Air-	W. C. Clarke and A. B. Griffen	522,968	July 17	1366	339	68	290
Carbureting apparatus for gas or vapor engines	G. E. Hoyt	515,050	Feb. 20	1770	446	66	1217
Carburetor	G. H. Burrows	522,574	July 3	679	173	68	132
Carburetor	G. Cabrié-Gardien	515,287	Feb. 20	2163	537	66	1292
Carburetor	M. W. Iles	522,418	July 3	419	107	68	83
Carburetor	P. Keller	528,882	Nov. 6	658	158	69	767
Carburetor	J. W. Lambert	517,344	Mar. 27	2700	634	66	2009
Carburetor	J. T. McCarrier	515,440	Feb. 27	2428	601	66	1353
Carburetor	O. Moncur	528,377	Oct. 30	2877	697	69	589
Carburetor	J. O. Sprague and J. W. Guthrie	527,085	Oct. 9	667	153	69	140
Carburetor	O. Vanorman. (Reissue)	11,430	July 10	1342	333	68	271
Carburetor	E. M. Westcott	527,639	Oct. 16	1584	383	69	332
Carburetors. Air-supplying apparatus for	G. H. Burrows	522,573	July 3	678	172	68	132
Card-clothing. Apparatus for setting teeth in	M. Duesberg-Delrez	526,564	Sept. 25	2162	517	68	1586
Card. Display-	C. Hershshaim	527,688	Oct. 16	1661	400	69	336
Card for eyeglass-chains	E. J. Fisher	526,523	Sept. 25	2103	501	68	1575
Card frame or mount	J. P. Odgers	522,484	July 3	527	134	68	105
Card-holder	G. T. Beeland	526,431	Sept. 25	1961	{ 467 468 }	68	1550
Card-holder	F. J. McArdle and J. B. Furay	513,714	Jan. 30	3325	821	66	759
Card. Playing-	T. A. Cole	516,887	Mar. 20	1911	451	66	1842
Card. Reinforced stencil	F. D. Belknap	530,918	Dec. 18	1466	347	69	1513
Card. Reinforced stencil	F. D. Belknap	530,919	Dec. 18	1467	348	69	1513
Card-setting machine	C. W. Arnold	528,354	Oct. 30	2832	{ 635 686 687 688 689 }	69	581
Card-support	W. F. Jones	527,694	Oct. 16	1675	403	69	339
Card-table	J. O'Meara	517,931	Apr. 10	542	211	67	176
Card-teeth. Method of and means for manufacturing	J. Platt	523,997	Sept. 11	1175	268	68	1377
Cards. Pack of playing-	A. I. Paine	516,165	Mar. 6	692	163	66	1582
Cards. Pocket-receptacle for	R. Senner	525,289	Aug. 28	2276	554	68	1123
Cards, pictures, &c. Support for	S. Dalsheimer and A. Greenleaf	517,444	Apr. 3	54	12	67	12
Carding-engine	E. B. Bohle	511,749	Jan. 2	16	4	66	6
Carding-engine	J. C. Potter	519,640	May 8	1272	{ 305 306 }	67	789
Carding-engines. Apparatus for controlling the grinding of flats of	J. E. Prest	519,771	May 15	1478	{ 358 359 }	67	841
Carding-engines. Machine for applying card-clothing to flats of	R. W. Hunton	520,186	May 22	2197	535	67	928
Carding-engines. Machinery for operating on conjoined staples for	W. Greaves and J. Wardle	515,315	Feb. 20	2214	{ 548 549 }	66	1301
Carding-engines. Means for fastening card-clothing to flats of	W. Senior, I. Wood, E. Hughes, and W. Hemingway	524,566	Aug. 14	1035	255	68	867
Carding-machine	J. T. Meats	528,007	Oct. 23	2244	542	69	459
Carding-machine. Condenser or finisher	J. Cromie	523,532	July 31	2890	719	68	601
Carding-machine feeding device	T. Kershaw	512,443	Jan. 9	1201	291	66	239
Carding-machine ring-doffer cylinder	J. K. Proctor	524,348	Aug. 14	672	164	68	800
Carding-machines, &c. Coiler for	H. McDermott	518,675	Apr. 24	2144	536	67	437
Carding-machines. Feed-alarm for	W. W. Gordon and T. F. Pye	525,013	Aug. 28	1803	446	68	1037
Carding-machines. Rub-motion mechanism for condenser	E. Kay	523,640	July 24	2533	636	68	520
Carding-machines. Rubbing-apron for	J. Barker	512,530	Jan. 9	1337	322	66	264
Carpenter's work-holder and guide	C. Bainbridge	529,235	Nov. 13	1277	306	69	897
Carpet-beater	C. S. Chaffee, A. S. Hoffman, and F. A. Green	515,573	Feb. 27	2635	655	66	1393
Carpet-beater	F. T. Frost	529,682	Nov. 20	2067	495	69	1062
Carpet-beating machine	J. L. Leach	523,533	July 24	2364	593	68	488
Carpet-fastener	L. F. Ambrose	529,350	Nov. 20	1480	356	69	957
Carpet-fastener	P. Ceovich	521,534	June 19	1406	325	67	1483
Carpet-fastener	P. Eckman	530,096	Dec. 4	34	9	69	1221
Carpet-fastener	J. A. and C. F. Korb	518,193	Apr. 10	1309	328	67	256
Carpet holding and sewing apparatus	E. B. Allen	524,997	Aug. 28	1770	{ 432 433 }	68	1030
Carpet-lining	C. C. Stewart	528,570	Nov. 6	84	21	69	661
Carpet-rag looper	J. Gérard	524,435	Aug. 14	821	200	68	829
Carpet-rolls. Means for supporting	C. L. Taylor	529,973	Nov. 27	2567	618	69	1163
Carpet-stretcher	J. E. Barnes	529,155	Nov. 13	1132	274	69	872
Carpet-stretcher	J. Cooper	515,945	Mar. 6	427	98	66	1531
Carpet-stretcher	W. Hover	520,736	May 29	3120	755	67	1175
Carpet-stretcher	S. Livingston	512,305	Jan. 9	951	232	66	192
Carpet-stretcher	J. Treseder	516,580	Mar. 13	1402	333	66	1729
Carpet stretcher and tacker	G. W. Kelley	514,474	Feb. 13	834	{ 212 213 }	66	1028
Carpet stretcher and tacker	D. H. McFalls	512,659	Jan. 9	1542	370	66	304
Carpet-sweeper	L. M. Kenton	516,441	Mar. 13	1163	279	66	1685
Carpet-sweeper	G. H. Gere	523,339	July 24	2025	509	68	428
Carpet-sweeper	W. Newbigging	525,610	Sept. 4	481	115	68	1241
Carpet-sweeper	E. H. Raymond	522,533	July 3	608	155	68	130
Carpet-sweeper	S. H. Raymond	518,210	Apr. 10	1336	333	67	261
Carpet-sweeper	H. W. Ru Ton	525,721	Sept. 11	694	161	68	1291
Carriage	C. N. Dennett	522,975	July 17	1376	342	68	292
Carriage	C. N. Dennett	522,976	July 17	1376	{ 342 343 }	68	292
Carriage	F. N. Vanier	527,909	Oct. 23	2051	492	69	424
Carriage	W. M. Ward	520,746	May 29	3134	{ 758 759 }	67	1177
Carriage	H. P. Wells	516,321	Mar. 13	949	223	66	1647

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Carriage and cradle. Combined child's.....	O. Orr.....	530,449	Dec. 4	641	160	59	1333
Carriage. Baby.....	M. L. Barr.....	517,598	Apr. 3	296	69	67	58
Carriage. Baby.....	O. Thielemann.....	520,622	May 29	2916	705	67	1139
Carriage-body.....	G. J. Saurbrey.....	514,776	Feb. 13	1336	{ 334 335 }	66	1123
Carriage-body. Convertible.....	C. Klanberg.....	525,908	Sept. 11	1028	233	68	1351
Carriage-brake.....	G. W. Holmes.....	513,577	Jan. 30	3091	760	66	717
Carriage. Child's.....	H. I. Humphrey.....	522,117	June 26	2426	522	67	1690
Carriage. Child's.....	J. W. Jaimison.....	526,972	Oct. 2	496	{ 121 122 }	69	93
Carriage-curtain fastener.....	C. A. Behlen.....	514,346	Feb. 6	631	161	66	971
Carriage. Folding baby.....	H. Anhaltzer.....	526,958	Oct. 2	472	117	69	89
Carriage foot-rail.....	F. Van Patten.....	514,793	Feb. 13	1367	343	66	1129
Carriage-jack.....	O. W. Bowen.....	524,701	Aug. 21	1257	310	68	922
Carriage jump-seat.....	J. Miller, Jr.....	512,618	Jan. 9	1468	{ 354 355 }	66	289
Carriage or wagon jack.....	S. J. Johnston.....	530,109	Dec. 4	59	16	69	1226
Carriage side door and seat combined.....	E. Selen.....	514,968	Feb. 20	1642	411	66	1195
Carriage-spring.....	C. A. Behlen.....	524,920	Aug. 21	1648	403	68	991
Carriage-spring.....	C. A. Behlen.....	528,458	Oct. 30	3029	735	69	615
Carriage storm-hood. Top.....	A. W. Seidmore.....	527,162	Oct. 9	793	193	69	162
Carriage-top.....	J. P. Johnson.....	520,433	May 29	2607	631	67	1082
Carriage-top.....	C. G., E. M., and M. T. Ridout.....	514,383	Feb. 6	684	173	66	982
Carriage-top.....	E. A. Sommerfruechte.....	518,746	Apr. 24	2280	566	67	460
Carriage-top spring.....	D. Conboy.....	529,760	Nov. 27	2229	531	69	1100
Carriage-top worker.....	A. C. and W. E. Bendler.....	527,314	Oct. 9	1048	253	69	209
Carriage-tops. Lock prop joint for.....	L. G. Mayer.....	522,476	July 3	517	131	68	103
Carriage. Transformable.....	J. E. W. Schuricht.....	523,179	July 17	1747	438	68	360
Carriage-underworks.....	S. R. Bailey.....	511,833	Jan. 2	137	35	66	29
Carriage-wheel.....	O. Finnigan.....	514,708	Feb. 13	1226	305	66	1203
Carriage-wheel.....	E. S. Renwick.....	531,447	Dec. 25	2431	579	69	1706
Carriage-wheel.....	M. V. Woncher.....	522,248	July 3	128	30	68	25
Carriages. Rocker attachment for baby.....	F. Walker.....	524,151	Aug. 7	320	75	68	720
Carriages. Runner attachment for children's.....	G. Nadeau.....	525,964	Sept. 11	1127	256	68	1369
Carriages. Sled attachment for baby.....	C. J. Bongfeldt.....	527,357	Oct. 9	1116	273	69	222
Carrier:							
See Book-carrier.	Lamp-carrier.						
Cable-carrier.	Lathe-carrier.						
Cash-carrier.	Luggage-carrier.						
Egg-carrier.	Package-carrier.						
Elevated carrier.	Package and cash carrier.						
Fruit-carrier.	Parcel-carrier.						
Harvester sheaf-carrier.	Parcel and cash carrier.						
rier.	Trace-carrier.						
Carrier.....	C. P. Hogue.....	528,775	Nov. 6	447	110	69	728
Carrier apparatus.....	J. R. Pollock.....	517,292	Mar. 27	2619	615	66	1992
Carrying apparatus.....	J. G. Delaney.....	516,084	Mar. 6	567	{ 132 133 }	66	1558
Cart. Child's.....	F. C. Hannabys.....	525,705	Sept. 11	674	156	68	1287
Cart. Dumping.....	W. T. Wood.....	525,379	Sept. 4	105	27	68	1169
Cart-operating device. Tip.....	C. P. McClanathan.....	524,767	Aug. 21	1399	341	68	948
Cart. Road.....	J. A. Kirkpatrick.....	512,716	Jan. 16	1635	{ 392 393 }	66	336
Cart. Self-loading.....	G. F. Fischer.....	528,424	Oct. 30	2957	{ 716 717 718 }	69	603
Carts. Combined holder and support for tip.....	C. P. McClanathan.....	513,132	Jan. 23	2343	565	66	540
Cartridge.....	E. D. Brainard.....	522,313	July 3	237	62	68	48
Cartridge.....	R. J. Gatling.....	513,997	Feb. 6	39	9	66	861
Cartridge. Blasting.....	G. M. Peters.....	511,792	Jan. 2	75	19	66	17
Cartridge-crimping machine.....	T. R. Barney.....	531,495	Dec. 25	2509	597	69	1720
Cartridge-elevating mechanism.....	F. H. Richards.....	515,130	Feb. 20	1892	{ 475 476 }	66	1240
Cartridge. Fumigating.....	O. S. Erickson.....	527,484	Oct. 16	1331	324	69	277
Cartridge-holder.....	M. H. Durst.....	523,886	July 31	2988	714	68	619
Cartridge-holder. Reloading.....	A. J. Watson.....	527,166	Oct. 9	799	195	69	163
Cartridge implement.....	N. G. Hanson.....	514,548	Feb. 13	952	241	66	1050
Cartridge-loading machines. Revolving crimper for.....	C. S. Hisey.....	528,098	Oct. 23	2397	579	69	486
Cartridge-loading machines. Shell-carrier actuating mechanism for.....	C. S. Hisey.....	528,094	Oct. 23	2389	{ 576 577 578 }	69	485
Cartridge-loading machines. Shell-carrier for.....	C. S. Hisey and E. S. Rice.....	527,983	Oct. 23	2194	{ 529 530 }	69	451
Cartridge-loading machines. Shell-feeding mechanism for.....	C. S. Hisey.....	528,095	Oct. 23	2391	577	69	486
Cartridge-loading machines. Shell-placer for.....	C. S. Hisey.....	528,096	Oct. 23	2392	578	69	486
Cartridge-packet.....	J. P. Lee.....	522,606	July 10	733	186	62	150
Cartridge-packet holder.....	J. P. Lee.....	522,604	July 10	736	187	68	160
Cartridge-packet holder.....	W. D. Pridaux.....	516,942	Mar. 20	2008	473	66	1859
Cartridge-pouch.....	G. B. Dudley.....	516,967	Mar. 20	2047	484	66	1867
Cartridge. Practice.....	G. D. R. Aikin.....	517,719	Apr. 3	515	125	67	100
Cartridge-reloading implement.....	W. Mason.....	514,722	Feb. 13	1233	313	66	1107
Cartridge-reloading tool.....	W. G. Smith.....	514,737	Feb. 13	1277	319	66	1111
Cartridge-shell battery.....	J. J. Pearson.....	512,055	Jan. 2	549	127	66	103
Cartridge-shell for practice shooting.....	W. M. Thomas.....	531,233	Dec. 16	2038	486	69	1615
Cartridge-stop for rimless cartridges.....	M. H. Durst.....	514,450	Feb. 13	780	200	66	1012
Cartridge-stop for rimless cartridges.....	M. H. Durst.....	514,451	Feb. 13	783	200	66	1019
Cartridge stop. Rimless.....	M. H. Durst.....	523,979	Aug. 7	20	5	68	666
Carving-machine.....	W. Maybeck.....	527,152	Oct. 9	778	190	69	159
Carving-machine.....	R. Morgeneier.....	528,337	Oct. 30	2810	{ 679 680 }	69	577
Carving-machine.....	C. S. Yarnell.....	530,570	Dec. 11	891	{ 219 220 }	69	1394

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Carving-machines. Frame for supporting patterns and material for Case:	C. S. Yarnell	519,752	May 15	1444	349	67	835
See Bicycle traveling-case.	Knockdown case.						
Bookcase.	Letter-case.						
Bottle-case.	Map-case.						
Bottle or can case.	Measure-case.						
Bottle-packing case.	Medical case.						
Card-case.	Medicine or sample case.						
Cigar-case.	Money-changer's case.						
Cigarette or match case.	Needle-case.						
Clock-case.	Packing-case.						
Collar and cuff case.	Packing or holding case.						
Combination-case.	Pen or pencil case.						
Composition-case.	Pencil-case.						
Display-case.	Piano-case.						
Drawer-case.	Piano or organ case.						
Dressing-case.	Preserving-case.						
Egg-case.	Reading-case.						
Egg-preserving case.	Sales-check case.						
Exhibit-case.	Sample-case.						
File-case.	Shipping-case.						
Fishing-tackle case.	Show-case.						
Gear-case.	Spectacle-case.						
Histological case.	Ticket-case.						
	Tile-case.						
	Traveling-case.						
Case	H. Peake	524,350	Aug. 21	1674	410	68	996
Case or cabinet.	J. F. Ohmer	517,477	Apr. 3	103	23	67	22
Case or holder for letters, &c	L. C. Gould	526,779	Oct. 2	185	43, 44	69	35
Cash and parcel carrier	D. M. Skinner	518,201	Apr. 10	1323	330	67	259
Cash-box.	W. C. Simmons	523,086	July 17	1552	389	68	325
Cash-carrier	N. and N. E. Dillenbeck	511,759	Jan. 2	30	7, 8	66	9
Cash-carrier	J. R. Pollock	522,917	July 10	1268	314	68	255
Cash-carrier apparatus.	H. M. Weaver	513,547	Jan. 30	3038	748	66	708
Cash-carrier apparatus. Pneumatic	F. J. H. Hazard	530,772	Dec. 11	1231	298	69	1454
					299		
Cash-controlling machine	A. Quortrup	527,808	Oct. 23	1861	447	69	391
Cash-delivering device.	S. E. Fish	519,449	May 8	921	222	67	728
Cash-drawer and manual recorder	E. H. Minnigh	518,264	Apr. 17	1428	357	67	294
					358		
Cash drawer and register	C. H. Shaw	527,220	Oct. 9	882	214	69	179
					215		
Cash-receipts-recording apparatus	C. Gottschalk	521,790	June 26	1850	441	67	1582
Cash-receptacle	F. R. Garfield	527,239	Oct. 9	919	221	69	186
Cash-recorder	C. W. Wilson	516,039	Mar. 6	503	116	66	1546
					117		
Cash recorder and indicator	E. H. Müller	523,540	July 24	2371	595	68	489
Cash-register	C. J. Carroll	522,823	July 10	1124	279	68	228
					241		
Cash-register	T. Carroll	521,332	June 12	1027	242	67	1397
					243		
Cash-register	J. P. Cleal	521,638	June 19	1583	370	67	1516
Cash-register	G. F. Cook	519,567	May 8	1141	274	67	767
					275		
Cash-register	G. W. Grove	514,652	Feb. 13	1127	281	66	1083
					282		
Cash-register	J. Hare and G. F. Cook	515,766	Mar. 6	65	15	66	1465
Cash-register	J. M. Heath	530,045	Nov. 27	2705	650	69	1192
Cash-register	R. M. Hunter	521,931	June 26	2097	504	67	1630
Cash-register	W. W. Johnson	526,396	Sept. 25	1882	447	68	1535
Cash-register	H. A. and W. C. Miles	523,439	July 24	2185	550	68	456
					551		
Cash-register	H. M. Neer	518,892	Apr. 24	2517	622	67	504
					623		
Cash-register	C. J. Passick	523,174	July 17	1736	435	68	358
Cash-register	C. Smyth	514,666	Feb. 13	1152	287	66	1088
Cash-register	C. G. Smyth	521,678	June 19	1648	386	67	1528
Cash-register	R. P. Thompson	521,558	June 19	1441	335	67	1490
Cash-register	R. P. Thompson	521,967	June 26	2170	521	67	1643
Cash-register	J. H. Voss	529,980	Nov. 27	2575	621	69	1165
Cash-register	J. A. Williams	512,929	Jan. 16	2035	482	66	411
Cash-register	J. A. Williams	529,436	Nov. 20	1658	394	69	988
					395		
Cash-register and check-printer. Motor-driven	C. W. Weiss	512,641	Jan. 9	1511	363	66	297
					364		
Cash register and indicator	J. B. Aufuldish	516,856	Mar. 20	1860	440	66	1832
					441		
Cash register and indicator	J. B. Aufuldish	529,773	Nov. 27	2218	528	69	1099
					529		
Cash register and indicator	G. W. Bailey	515,418	Feb. 27	2394	593	66	1346
					594		
Cash register and indicator	W. E. Brooke	523,101	July 17	1585	397	68	332
					398		
Cash register and indicator	W. E. Brooke	523,102	July 17	1589	398	68	333
					399		
Cash register and indicator	T. Carroll	521,334	June 12	1043	245	67	1400
Cash register and indicator	J. P. Cleal	514,670	Feb. 13	1162	289	66	1090
					290		
Cash register and indicator	J. P. Cleal	523,106	July 17	1602	402	68	335
					403		
Cash register and indicator	J. P. Cleal	523,462	July 24	2235	561	68	463
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Cash register and indicator	J. P. Cleal	526,296	Sept. 18	1686	398 399 728	68	1484
Cash register and indicator	L. Ehrlich	520,672	May 29	3011	729 730	67	1155
Cash register and indicator	M. Heintz	520,049	May 22	1934	474 475	67	941
Cash register and indicator	J. S. Hilliard	523,541	Nov. 6	29	8	69	652
Cash register and indicator	W. Lang	520,853	June 5	182	39 40 41	67	1230
Cash register and indicator	C. L. Lilleberg	525,956	Sept. 11	1101	250 251 252 253	68	1363
Cash register and indicator	W. T. McGraw	519,922	May 15	1718	492	67	867
Cash register and indicator	A. Pfaff	524,836	Aug. 21	1491	364 365 366	68	964
Cash register and indicator	C. Price	522,389	July 3	372	96, 97	63	73
Cash register and indicator	W. P. Putnam	515,481	Feb. 27	2486	615	66	1364
Cash register and indicator	C. J. Ryberg	513,443	Jan. 23	2830	695 696	66	633
Cash register and indicator	C. W. Shibley	524,812	Aug. 21	1441	353 133	68	956
Cash register and indicator	O. Tverdal	514,292	Feb. 6	543	134 135 136	66	955
Cash register and indicator	O. Tverdal	514,293	Feb. 6	548	137 138 139	66	956
Cash register and indicator with electric-alarm attachment.	J. B. Nesbit	525,056	Aug. 23	1889	462 463	68	1052
Cash register, indicator, and check-printer	C. Sebastian	512,753	Jan. 16	1708	408 409	66	350
Cash register, indicator, and check-printer	C. W. Weiss	524,814	Aug. 21	1444	353 354	68	956
Cash register, indicator, and recorder	H. Cook	518,344	Apr. 17	1567	389 390	67	318
Cash register, indicator, and recorder	P. J. Landin and F. L. Walker	526,400	Sept. 25	1887	448 449 450	68	1536
Cash register, indicator, and recorder	P. J. Landin and F. L. Walker	526,401	Sept. 25	1897	450 451 452	68	1538
Cash register, indicator, and recorder	P. J. Landin and F. L. Walker	526,402	Sept. 25	1906	452 453 454	68	1539
Cash register, indicator, and recorder	W. T. McGraw	518,267	Apr. 17	1435	359	67	294
Cash register, indicator, and recorder	C. W. Weiss	512,639	Jan. 9	1498	361 362	66	295
Cash register, recorder, and check-printer	C. W. Weiss	512,640	Jan. 9	1502	362 363 243	66	295
Cash-register. Total-adding	T. Carroll	521,333	June 12	1031	244 245	67	1397
Cash-registers. Combined drawer-ejector and lock for	C. F. Brown and P. G. Welty	514,062	Feb. 6	134	32	66	879
Cash-registers. Multiple adding-machine for	C. J. Ryberg	531,277	Dec. 13	2112	507 508	69	1629
Cash-registers. Sealing device for	J. O. Byrns	530,924	Dec. 13	1473	349	69	1514
Cash-registering and indicating machine	J. J. Webster	514,174	Feb. 6	325	78, 79	66	914
Cash-registering apparatus	M. Blank	526,768	Oct. 2	165	39	69	32
Cash-registering machine	A. Webster	514,173	Feb. 6	323	77	66	914
Cash-registering machine	J. J. Webster	514,175	Feb. 6	330	79	66	915
Cash-registering machine	J. J. Webster	523,611	July 24	2482	624	68	509
Cash-registering machine	J. J. and A. Webster	514,176	Feb. 6	334	80	66	916
Cask	T. G. Stevens and J. Baker	518,537	Apr. 17	1908	472	67	360
Cask-pitching apparatus	C. Bernreuther	517,515	Apr. 3	163	36	67	33
Cask-pitching apparatus	T. J. Reinhard	529,310	Nov. 13	1418	341	69	924
Cask-rolling machine	L. P. K. Heyligenstaedt	520,205	May 22	2230	542	67	994
Casks. Apparatus for extracting residual substances from	E. E. Murphy	529,338	Nov. 13	1452	350	69	931
Casks. Machinery for manufacturing	T. G. Stevens and J. Baker	522,537	July 3	613	156	68	120
Casks. Pitching	L. Wagner	517,400	Mar. 27	2823	662	66	2034
Casket-clamp for hearses	G. F. Baird	516,172	Mar. 6	705	166	66	1585
Casket-fastener	J. C. Edward	525,842	Sept. 11	927	207	68	1332
Casket-handle	L. H. Bannister	527,191	Oct. 9	835	203	69	170
Casket-handle	L. E. Woodward	530,814	Dec. 11	1290	312	69	1466
Casket-handle. Detachable	L. H. Bannister	530,015	May 15	1874	458	67	914
Casket-handle. Detachable	L. H. Bannister	530,016	May 15	1876	458	67	914
Casket-lid	A. B. Springstead and J. J. Lawler	514,667	Feb. 13	1157	282	66	1089
Casket-lid fastener	W. C. Langenau	528,948	Nov. 13	796	166	69	812
Casket-lining	F. S. Pinkham	521,419	June 12	1179	280	67	1427
Casket-lowering device	A. C. Richardson	529,311	Nov. 13	1419	341	69	924
Casket-pedestal	E. E. Fisher	521,211	June 12	814	191	67	1358
Casket-trimming table	T. B. Hennessy	517,976	Apr. 10	925	231 232	67	189
Caster	L. B. Denton	525,806	Sept. 11	844	191	68	1318
Caster	S. Hamm	525,496	Sept. 4	297	73	68	1206
Caster	F. Mann and H. H. Akers	523,772	July 31	2783	691	68	580
Caster	J. J. Schlientz and J. F. Fink	528,210	Oct. 30	2597	627	69	538
Caster	J. R. Sutliff	514,247	Feb. 6	476	116	66	942
Caster	W. H. Tucker	522,810	July 10	1102	272	68	224

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Caster	E. J. Wasbrood	514,526	Feb. 13	919	232	66	1044
Caster. Ball	J. B. Offerle	528,791	Nov. 6	475	116	69	732
Caster. Ball	L. B. White	528,366	Oct. 30	2691	648	69	556
Caster. Furniture	G. J. Bowley	514,613	Feb. 13	1068	267	66	1072
Caster. Furniture	J. R. Sutliff	512,920	Jan. 16	2022	479	66	409
Caster. Furniture	J. T. Vegiard	523,801	July 31	2836	705	68	590
Caster. Trunk	G. Crouch	518,094	Apr. 10	1132	285	67	223
Casting apparatus	H. B. Cox	531,362	Dec. 25	2273	542	69	1675
Casting car-wheels. Forming molds for	J. J. Carr	512,946	Jan. 16	2063	489	66	416
Casting crucible-steel. Apparatus for	C. Capper	529,321	Nov. 13	1430	344	69	927
Casting crucible-steel ingots	E. Smith	517,197	Mar. 27	2462	112	66	1963
Casting frames for fence-ratchets. Pattern for	J. Stanfer	516,031	Mar. 6	486	42	66	1542
Casting journal-boxes. Apparatus for	P. W. Gates	525,412	Sept. 4	165	42	63	1181
Casting machine. Type	H. Heinebach	517,340	Mar. 27	2694	632	66	2008
Casting machine. Type	W. H. Welsh	524,099	Ang. 7	217	50, 51	68	701
Casting machine. Type	G. H. Ziegler	523,255	July 17	1879	472	68	394
Casting machine. Type	G. H. Ziegler	523,256	July 17	1883	473	68	385
Casting machine. Type	G. H. Ziegler	523,301	July 17	1951	491	68	397
Casting. Means for	W. H. Drake and J. C. Green	524,543	Aug. 14	998	245	68	861
Casting metal pipes, &c. Machine for making molds and cores to be used in	J. Shepherd	530,857	Dec. 11	1360	325	69	1477
Casting metals. Mold for	E. C. Smith	512,845	Jan. 16	1880	85	66	383
Casting metals under pneumatic pressure. Apparatus for	J. J. C. and E. C. Smith	526,874	Oct. 2	341	85	69	64
Casting-mold	C. A. R. Hampel	529,906	Nov. 27	2441	586	69	1141
Casting-mold. Ingot	C. W. Cantz	512,005	Jan. 2	462	110	66	89
Casting-molds. Apparatus for drying	W. Hansen	530,641	Dec. 11	1016	248	69	1415
Casting molten material. Apparatus for	G. A. Goodson	530,479	Dec. 4	691	173	69	1342
Casting pattern. Pipe	H. Henderson and L. J. Kennigott	516,972	Mar. 20	2054	466	66	1868
Casting radiator-sections. Core for	T. C. Joy	511,957	Jan. 2	388	90	66	74
Casting sand molds	S. J. Adams	521,521	June 19	1385	321	67	1480
Casting sash-weights. Device for	A. S. Hodges	527,984	Oct. 23	2202	530	69	451
Castings. Chill for making chilled	H. Schon	528,034	Oct. 23	2285	551	69	466
Castings. Making steel	N. Washburn	513,163	Jan. 23	2390	66	549	
Castings. Manufacturing steel	S. P. Hutchinson	520,056	May 22	1948	67	943	
Castings. Mold for making	N. D. Bailey	517,205	Mar. 27	2476	583	66	1965
Castings. Treating metal	H. Heil	515,222	Feb. 20	2049	66	1269	
Castrating-instrument	J. E. Anderson	527,309	Oct. 9	1039	252	69	207
Catalogue. Card	A. J. Rudolph	523,692	Nov. 6	307	75	69	702
Catamenial sack	E. C. Hornor	520,113	May 22	2050	501	67	963
Catamenial sack	E. Kirwin	514,717	Feb. 13	1239	308	66	1105
Catapult	C. B. Trumble	516,852	Mar. 20	1854	439	66	1830
Catch. Pivoted	J. Waddell	512,996	Jan. 16	2141	509	66	431
Catch-plate or striker	J. K. Clark	522,878	July 10	1192	297	68	241
Catch-plate or striker. Adjustable	J. K. and H. R. Clark	512,244	Jan. 2	849	206	66	161
Cathpillar-trap	T. D. Noone	523,682	July 31	2621	651	68	551
Cathode for electrolytic process and making same	E. Stouls	528,042	Oct. 23	2298	69	469	
Cattle-guard	P. L. Brady	515,140	Feb. 20	1909	479	66	1244
Cattle-guard	J. T. Hall	512,569	Jan. 9	1310	316	66	259
Cattle-guard	L. Hills	516,307	Mar. 13	931	219	66	1643
Cattle-guard	L. Hills	525,900	Sept. 11	1020	230	68	1349
Cattle-guard	L. Lefève	513,946	Jan. 30	3674	905	66	828
Cattle-guard. Electric	D. H. Wilson	520,510	May 29	2735	662	67	1104
Cattle-guard. Surface	B. Wolhaupter	516,256	Mar. 13	857	200	66	1628
Ceiling. Fireproof	W. A. Enrr	513,874	Jan. 30	3574	879	66	808
Ceiling. Fireproof	J. Rueben	530,129	Dec. 4	93	25	69	1232
Ceiling. Metallic	E. Armstrong	521,696	June 19	1676	393	67	1534
Ceiling. Metallic	L. J. Cherest	513,879	Jan. 30	3582	881	66	809
Ceiling. Metallic	C. C. Moore	518,464	Apr. 17	1792	444	67	360
Ceiling or floor	S. G. Brinkman	530,064	Nov. 27	2747	659	69	1200
Ceiling or wainscoting board	J. A. Hensel	517,521	Apr. 3	171	39	67	25
Ceiling-plate	J. W. Chamberlain	530,934	Dec. 4	559	139	69	1317
Ceiling, roof, or like structure	T. A. Lee	529,323	Nov. 27	2469	505	69	1146
Ceiling-top	G. Diers	527,013	Oct. 2	557	136	69	105
Ceilings. Metallic panel for	F. G. Caldwell	529,593	Nov. 20	1929	460	69	1037
Ceilings, &c. Sheet-metal paneling for	F. G. Caldwell	524,932	Ang. 21	1651	404	68	991
Cell-case blanks. Machine for cutting out	F. D. Maltby	517,651	Apr. 3	394	94	67	76
Cellulose acetate. Manufacture of	C. F. Cross and E. J. Bevan	530,826	Dec. 11	1311	92	69	1470
Cellulose. Apparatus for the manufacture of	C. W. Flodquist	525,540	Sept. 4	379	92	68	1321
Cellulose. Nitrating	R. C. Schupphaus	526,752	Oct. 2	138	69	27	
Cellulose. Plastic compound of	C. F. Cross, E. J. Bevan, and C. Beadle	520,770	June 5	17	67	1199	
Cement compound	C. J. Everett	515,757	Mar. 6	39	66	1462	
Cement. Manufacture of	S. Dentler	511,938	Jan. 2	359	66	68	
Cement. Manufacture of	B. K. Rigby	523,645	July 24	2541	637	68	521
Cement. Manufacture of	B. K. Rigby	526,910	Oct. 2	407	69	76	
Cement, &c. Manufacture of asbestos	A. Kühlewein	530,645	Dec. 11	1024	69	1417	
Cement. Manufacturing hydraulic	G. W. A. Stein	530,247	Dec. 4	302	69	1270	
Cement-mill	J. A. Albertson and J. H. Fisher	524,233	Aug. 7	448	105	68	743
Cement walks. Forming	W. J. Haddock	525,146	Aug. 23	2050	68	1080	
Centerboard	H. Voss	528,749	Nov. 6	398	94 95	69	718
Centerboard. Adjustably-weighted	F. W. Brewster	521,494	June 19	1340	311	67	1472
Centerboard. Boat	W. R. Baker	528,916	Nov. 13	737	173	69	801
Centerboard. Boat	J. Couch	518,364	Apr. 17	1624	400	67	329
Center-mark tool. Portable spring-actuated	R. S. Peabody	528,555	Nov. 6	51	14	69	656
Centering-tool	F. B. Covey	521,206	June 12	807	189	67	1356
Centrifugal machine	E. Lévy-Samson	527,499	Oct. 16	1351	330	69	281
Centrifugal machine	J. Naylor, Jr.	529,664	Nov. 20	2039	489	69	1057

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Centrifugal machine	H. E. Smith	519,975	May 15	1811	444	67	903
Centrifugal screen	E. R. Dudley	526,618	Sept. 25	2247	537	68	1603
Centrifugal separator	H. F. M. Kayser	527,860	Oct. 23	1962	471	69	407
Centrifugal separator	C. H. Scharar	517,363	Mar. 27	2733	472	66	2016
Centrifugal separators. Driving mechanism for	J. L. Jönsson	512,033	Jan. 2	508	642	66	97
Cereals. Preparing	W. Onderdonk	517,479	Apr. 3	107	120	67	23
Cereals. Preparing	W. Onderdonk	526,256	Sept. 18	1623	121	68	1472
Chafe-iron. Roller	C. L. Bellamy	531,500	Dec. 25	2517	381	69	1722
Chain	R. A. Breul	518,484	Apr. 17	1817	601	67	364
Chain attachment-block. Elevating or conveying	D. Bennett	529,016	Nov. 13	901	213	69	830
Chain-bar-sawing machine	O. Klatte	523,433	July 24	2176	548	68	454
Chain. Breast	W. M. Pipor	515,359	Feb. 27	2295	69	66	1328
Chain clasp. Watch	T. Mason	524,782	Aug. 21	1394	340	68	947
Chain. Conveyer	J. Dick	526,072	Sept. 18	1306	302	68	1414
Chain-coupling	C. F. Noble	524,182	Aug. 7	363	86	68	728
Chain. Drive	J. Appleby	521,007	June 5	457	108	67	1279
Chain. Drive	E. A. Baldwin	523,877	July 31	2972	740	68	616
Chain. Drive	J. O. Brown	525,254	Aug. 28	2217	540	68	1109
Chain. Drive	T. Corssaden	518,307	Apr. 17	1496	374	67	306
Chain. Drive	R. J. Hamill	514,001	Feb. 6	44	11	66	862
Chain. Drive	H. S. Hart	520,231	May 22	2272	553	67	1001
Chain. Drive	L. W. Loomis	515,004	Feb. 20	1687	424	66	1204
Chain. Drive	J. H. Mitchell	526,161	Sept. 18	1456	340	68	1441
Chain. Drive	A. Ritscher	514,774	Feb. 13	1333	334	66	1122
Chain. Driving	W. B. Teale	522,622	Nov. 6	174	43	69	678
Chain for vehicle-bodies. Tie	T. M. Nalton	516,400	Mar. 13	1094	261	66	1672
Chain. Galvanic	F. Fritsche	526,182	Sept. 18	1495	350	68	1447
Chain-link	R. A. and C. Breul	530,921	Dec. 18	1469	348	69	1514
Chain link. Drive	C. E. Hart	533,346	July 24	2035	511	68	429
Chain links. Machine for coupling drive	N. B. Fasset	524,964	Aug. 21	1692	415	68	999
Chain-machine	B. L. Colvin	528,076	Oct. 23	2355	563	69	480
Chain. Machine for making predetermined lengths of	C. F. Smith	524,794	Aug. 21	1412	345	68	950
Chain-making machine	R. G. Barnes, H. D. Pomeroy, and E. W. Keyes	518,441	Apr. 17	1740	346	67	353
Chain-making machine	P. H. Standish	528,819	Nov. 6	528	434	69	741
Chain-making machine	E. Thomson and C. E. Harthan	512,848	Jan. 16	1888	128	66	384
Chain mortising-machine	J. H. Hall and D. Parry	518,646	Apr. 24	2092	446	67	427
Chain or link belt. Conveyer	S. Essex	531,306	Dec. 25	2170	447	69	1656
Chain shackle or coupling	R. J. Rae	523,441	July 24	2190	522	68	457
Chain-wrench	J. H. Vinton	522,136	June 26	2464	551	67	1697
Chains, buckles, straps, &c. Means for disconnecting	L. Becker	513,607	Jan. 30	2139	552	66	726
Chains. Machine for making sheet-metal	R. W. Jorres	515,961	Mar. 6	360	770	66	1520
Chains. Rolls for the manufacture of	O. Klatte	523,432	July 24	2174	771	68	454
Chair:					81		
See Adjustable chair. High chair.					85		
Adjustable and fold- Invalid-chair.					86		
ing chair. Knockdown chair.					547		
Barber's chair. Panel-chair.					548		
Camp-chair. Rail-chair.							
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chair. Revolving chair.							
Convertible chair. Rocking-chair.							
Dental chair. Shoulder and back brac-							
ing chair.							
Dental or surgical chair.							
Folding chair.							
Hanging or swinging chair.							
Chair	E. W. Briggs, Jr	530,880	Dec. 11	1397	333	69	1485
Chair	A. Burkholder	525,187	Aug. 28	2124	518	68	1092
Chair	T. H. Costello	522,652	July 10	817	204	68	174
Chair	W. Daniels	530,092	Dec. 4	27	8	69	1220
Chair	M. J. Halliburton	529,380	Nov. 20	1541	368	69	968
Chair	G. A. Kollenberg	523,287	July 17	1925	484	68	392
Chair	L. C. Lazear	523,639	July 31	2906	725	68	603
Chair	C. N. Vankirk and C. W. Blay	515,382	Feb. 27	2335	579	66	1336
Chair and step-ladder. Combined	E. Eggert	511,837	Jan. 2	143	36	66	30
Chair and step-ladder. Combined	W. H. White	514,876	Feb. 13	1498	376	66	1154
Chair-bottom	C. Singer	522,089	June 26	2377	572	67	1682
Chair-brace	D. L. Trexler	517,313	Mar. 27	2649	622	66	1999
Chair fan attachment. Rocking	C. F. Bettmann, Jr	513,477	Jan. 30	2911	716	66	684
Chair fanning attachment. Rocking	O. Drake	523,318	July 17	1982	498	68	404
Chair foot-rest attachment	D. S. Clark	518,644	Apr. 24	2090	521	67	427
Chair foot-rest. Rocking	L. E. Armstrong	513,169	Jan. 23	2397	579	66	550
Chair foot-rest. Rocking	L. E. Armstrong	513,170	Jan. 23	2400	560	66	551
Chair-seat	R. L. Bent	518,339	Apr. 17	1559	387	67	317
Chair-seat	A. Evans	516,003	Mar. 6	437	101	66	1533
Chair-seat	O. S. Foster	529,485	Nov. 20	1749	415	69	1003
Chair-seats. Spring-support for	J. A. Staples	531,477	Dec. 25	2478	590	69	1714

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Chair-seats. Tie for ends of cane strips for	D. M. Sinclair	516,711	Mar. 20	1629	388	66	1788
Chalk-lines. Self-chalking	J. Wilson	523,129	July 17	1762	442	68	363
Chalk-sharpener	G. Hay	517,922	Apr. 10	829	208	67	174
Chalking apparatus. Line-	C. E. Anderson	517,720	Apr. 3	515	125	67	100
Chalking device. Line-	S. R. Miller	520,998	June 5	442	105	67	1277
Chalking device. Line-	J. W. Neff	526,937	Oct. 2	450	111	69	84
Chamber or other liquid-receiving vessel	J. D. Rush	515,131	Feb. 20	1895	476	66	1241
Chamfering and crozing machine	H. Olsen	525,510	Sept. 4	314	77, 78	68	1210
Chamfering-machine	T. Craney	524,889	Aug. 21	1570	384	68	977
Chandelier. Extension electric	A. McLean	517,009	Mar. 20	2115	500	66	1879
Channeling-machine	H. H. Arnold	520,132	May 22	2102	510	67	970
Channeling-machine	Z. T. French and W. C. Meyer	529,900	Nov. 27	2432	584	69	1140
Channeling-machine	H. C. Sergeant	522,236	July 3	105	24, 25	68	20
Charcoal. Treatment of animal	J. A. Dubbs	526,180	Sept. 18	1486	348	68	1446
Charger	D. P. Allen	528,843	Nov. 6	591	140	69	754
Charging apparatus	E. Solvay	531,282	Dec. 18	2123	509	69	1631
Charring-tool for ornamenting wood, &c	J. F. Krueger	522,328	July 3	262	69	68	53
Chart	E. R. E. Cowell	515,195	Feb. 20	1995	497	66	1259
Chart. Astronomical	F. E. Ormsby	531,060	Dec. 18	1709	406	69	1557
Chart for hotels. Room-	A. H. Leach	522,793	July 10	1078	266	68	219
Chart. Geocentric astronomical	A. H. Molesworth	521,725	June 19	1726	410	67	1544
Chart-hanger	W. S. Cranmer	519,467	May 8	959	232	67	734
Chart-stand and easel. Combined	H. E. Holt	512,471	Jan. 9	1250	301	66	248
Check attachment	R. Sears	526,204	Sept. 18	1540	361	68	1456
Check carrier. Sales-	W. M. Kinnard	514,010	Feb. 6	57	14	66	865
Check. Conductor's	A. Ross	526,264	Sept. 18	1632	323	68	1474
Check-hook	P. F. Cavalier	518,937	May 1	5	1	67	537
Check-hook	T. A. Fairbairn	515,544	Feb. 27	2591	641	66	1324
Check-hook	J. N. Moehn	529,561	Nov. 20	1880	447	69	1027
Check-hook	W. R. Moore	517,121	Mar. 27	2332	549	66	1937
Check-hook	E. A. Stephens	516,456	Mar. 13	1191	285	66	1690
Check-hook eye	C. H. Shultz	515,798	Mar. 6	114	27	66	1475
Check. Identifying-	N. H. Bledsoe	513,978	Feb. 6	9	2	66	856
Check-marker	C. H. Coggeshall	530,470	Dec. 4	676	168 169	69	1339
Check-perforator	S. Windecker	524,454	Aug. 14	833	209 210	68	835
Checkrein	A. W. Cox	523,464	July 24	2239	562	68	464
Checkrein attachment	T. C. Maggs	514,761	Feb. 13	1314	327	66	1119
Checkrein attachment	G. W. Taylor	524,992	Aug. 21	1759	429	68	1013
Checkrein-hook	G. W. Begole	529,674	Nov. 20	2054	492	69	1060
Checkrein-loop	M. J. Clark	519,991	May 15	1840	449	67	908
Checkrein-support	J. Carter	521,015	June 5	470	112	67	1281
Check-row wire. Machine for making	R. Faries	516,526	Mar. 13	1318	313	66	1714
Checks to prevent fraudulent alteration thereof. Treating	E. J. Mims	512,985	Jan. 16	2125	504	66	427
Checking and unchecking device	B. A. Blakemore	530,005	Nov. 27	2641	634	69	1181
Cheese. Artificially enriching	P. F. Gibbons and E. Buchanan	515,523	Feb. 27	2554	633	66	1377
Cheese curds in a continuous manner. Producing	E. G. N. Salenius	526,165	Sept. 18	1464	.....	68	1442
Cheese-forming machine	H. R. Van Eyck	519,209	May 1	457	118	67	631
Cheese-holder	L. C. Hiller and W. R. Mackay	521,612	June 19	1541	361	67	1508
Cheese. Machine for molding Neufchâtel	J. B. Pecht	518,625	Apr. 24	2050	510	67	420
Cheese manufacture. Making emulsions in	D. H. Burrell	530,298	Dec. 4	393	99	69	1266
Cheese or orange holder	L. C. Hiller	521,613	June 19	1542	361	67	1508
Cheese-press	H. Feldmeier	529,856	Nov. 27	2366	565 566	69	1127
Cheese-press	J. L. Helmer	525,601	Sept. 4	470	112 113	68	1239
Cheese-press	C. J. Lundstrom	522,001	Oct. 23	2235	539 540	69	457
Chemical-flask	A. E. Outerbridge, Jr.	514,426	Feb. 6	742	159	66	993
Chenille fabric. Woven	L. Bins	514,809	Feb. 13	1387	348 349	66	1133
Chenille fabric. Woven	C. A. Schmidt	513,284	Jan. 23	2589	627	66	569
Chenille. Manufacturing	E. Catlow	520,400	May 22	2547	615	67	1055
Cherry-stoner	J. W. Brown, Jr.	521,011	June 5	466	111	67	1280
Chest: See Tea-chest.							
Chest and bleacher. Stuff-	G. M. Newhall	529,937	Nov. 27	2490	600 601	69	1149
Chest-hanging	C. H. Willits	512,420	Jan. 9	1149	279	66	229
Chest. Tool-	J. L. Waggoner and W. T. Carmichael	518,296	Apr. 17	1480	370	67	303
Child's or invalid's chair	L. A. Chichester	519,443	May 8	913	220	67	727
Chill. Furnace-	A. Laughlin and J. Reuleaux	511,851	Jan. 2	166	41, 42	66	35
Chime-ringing mechanism	W. C. Wilkins	516,559	Mar. 13	1368	325 326	66	1723
Chimney	J. Cheout	513,753	Jan. 30	3389	836	66	771
Chimney	A. Custodis	512,504	Jan. 9	1303	314	66	258
Chimney	C. E. S. Dunlevy	515,860	Mar. 6	205	48	66	1491
Chimney	E. V. Wingard	528,453	Oct. 30	3011	727	69	612
Chimney attachment	T. E. Coles	515,574	Feb. 27	2637	655	66	1393
Chimney attachment. Fire and water proof	A. C. Miller	515,153	Feb. 20	1933	444	66	1248
Chimney attachment or cowl	G. Blankley	514,252	Feb. 6	483	118	66	943
Chimney-cap	M. Ludwig	512,981	Jan. 16	2120	503	66	426
Chimney cap and ventilator	W. Earle	527,199	Oct. 9	848	206 207	69	173
Chimney-cowl	H. F. A. Faulhaber and C. F. Koch	518,398	Apr. 17	1672	413	67	338
Chimney-cowl	J. A. Hodel	519,954	May 15	1771	434	67	896
Chimney cowl or ventilator	M. H. Ingalls	530,418	Dec. 4	595	148	69	1324
Chimney-guard	C. N. Partlow	525,057	Aug. 28	1692	463	68	1052
Chimney. Portable fireproof	J. M. Jarvis	512,707	Jan. 16	1621	369	66	333
Chimney-regulator	J. Frerichs	517,919	Apr. 10	825	207	67	173
Chimney. Sectional	W. J. Culnan	516,966	Mar. 20	2046	484	66	1867

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Chimney. Sectional ventilating.	S. H. Richmond	512,566	Jan. 9	1389	335	66	274
Chimney. Sectional ventilating.	S. H. Richmond	515,482	Feb. 27	2468	{ 615 616 }	{ 66 66 }	1364
Chimney-stacks. Atmospheric-pressure relief for.	B. F. Taylor	530,630	Dec. 11	988	243	69	1411
Chimney-top and ventilator	J. T. Finch	517,797	Apr. 3	636	159	67	123
Chimney-top. Ventilated	J. F. Spivey	517,309	Mar. 27	2643	621	66	1998
Chimneys. Apparatus for the construction of.	H. C. Rowell	521,820	June 26	1899	456	67	1592
Chimneys for shipment. Packing	J. M. Leaver	513,644	Jan. 30	3201	785	66	737
Chiropodists' use. Instrument for	F. M. Garies	527,240	Oct. 9	920	292	69	186
Chisel	J. A. Arthur	522,282	July 3	190	51	68	39
Chisel. Mortising	J. A. Arthur	522,548	July 3	630	161	68	123
Chisel. Subaqueous rock-breaking	W. L. Ross	531,334	Dec. 25	2219	531	69	1665
Chloride. Making liquid	A. Sommer	523,715	July 31	2658	666	68	562
Chlorin and caustic soda. Electrolytic apparatus for the manufacture of	T. Drake	528,153	Oct. 30	2492	603	69	520
Chlorin gas. Process of and apparatus for absorbing.	P. J. Worsley, W. Windus, and B. Bracey.	521,629	June 19	1567	366	67	1513
Chlorin. Making	W. Donald	518,445	Apr. 17	1759	436	67	355
Chlorin. Making	W. Donald	518,446	Apr. 17	1761	{ 436 437 }	{ 67 67 }	355
Chlorin monoxid. Apparatus for the manufacture of	G. A. Cannot	523,262	July 17	1892	476	68	387
Chlorin. Obtaining	L. Mond	529,130	Nov. 13	1087	262	69	864
Chloroform-mixer	T. G. Lewis	513,797	Jan. 30	3442	849	66	781
Chocolate dip or coating tray	D. F. Gerbereux	522,788	July 10	1071	265	68	218
Chocolate-dipper	C. Gousset	526,968	Oct. 2	491	120	69	92
Chop-grading machine	J. A. McAnulty	526,017	Sept. 11	1206	277	68	1383
Chopper.							
See Cotton-chopper.							
Chopping-knife	R. Mayer	527,002	Oct. 2	541	133	69	102
Chopping-knife	W. L. Pike	528,562	Nov. 6	61	16	69	657
Chopping-knife	F. H. Rundell	518,279	Apr. 17	1453	363	67	299
Christmas-tree holder	E. Pruekner	523,376	July 24	2078	523	68	437
Christmas-tree light	E. A. Uebeling	531,452	Dec. 25	2439	581	69	1708
Chromium. Electrodeposition of	E. Placet and J. Bonnet	526,114	Sept. 18	1378	.....	68	1427
Chromium. Making green oxid of.	F. L. Sluom	524,470	Aug. 14	874	.....	68	839
Chuck	Z. B. Coes	525,444	Sept. 4	216	53	68	1191
Chuck	C. M. Conradson	523,328	July 24	2005	504	68	424
Chuck	D. P. Johnston	514,008	Feb. 6	52	13	66	864
Chuck. Drill	R. J. Holland	519,454	May 8	929	224	67	730
Chuck. Drill	O. K. Schmidt	514,165	Feb. 6	311	74	66	911
Chuck. Drill	C. G. Small	516,775	Mar. 20	1732	408	66	1805
Chuck. Drill	J. H. Westcott	527,227	Oct. 9	897	217	69	183
Chuck. Drill-grinding-machine	J. S. Bancroft	520,749	May 29	3141	760	67	1178
Chuck. Emery-wheel	J. T. Giblin	523,890	July 31	2992	745	68	620
Chuck. Engraver's	H. Gruner	520,778	June 5	29	6	67	1202
Chuck. Engraver's	F. Mink	520,797	June 5	69	14, 15	67	1210
Chuck. Jewel	J. L. Hutchinson	513,931	Jan. 30	3648	899	66	823
Chuck. Lathe	S. Coons and E. O. Rogers	518,136	Apr. 10	1195	300	67	234
Chuck. Lathe	C. F. Elliott	512,283	Jan. 9	916	223	66	185
Chuck. Lathe	F. J. Feldt	516,645	Mar. 20	1516	360	66	1767
Chuck. Lathe	W. Wolff	528,705	Nov. 6	323	79	69	705
Churn	M. O. Barke	512,574	Jan. 9	1401	338	66	276
Churn	E. H. Baugh	525,938	Sept. 11	1074	244	68	1358
Churn	W. P. Bending	526,607	Sept. 25	2233	533	68	1599
Churn	J. P. Bolding	520,724	May 29	3098	750	67	1172
Churn	O. C. Byler	517,431	Apr. 3	15	3, 4	67	5
Churn	J. W. Coyne and J. A. Shannon	526,561	Sept. 25	2156	515	68	1585
Churn	G. W. Crabb	520,561	May 29	2824	682	67	1121
Churn	J. A. Crim	528,079	Oct. 23	2364	570	69	481
Churn	G. G. Davis and E. Sawyer	513,361	Jan. 23	2706	657	66	610
Churn	J. H. H. Duncan	517,817	Apr. 3	667	167	67	129
Churn	S. D. Fry and J. R. Hamilton	525,980	Sept. 11	1149	261	68	1373
Churn	J. A. Grant	514,358	Feb. 6	614	165	66	974
Churn	A. Hamlin	516,305	Mar. 13	928	218	66	1643
Churn	W. D. Hammond	516,970	Mar. 20	2052	485	66	1863
Churn	J. A. Howard	523,214	Aug. 28	2160	527	68	1099
Churn	J. M. Jackson	530,531	Dec. 11	820	203	69	1381
Churn	G. Laube	514,859	Feb. 13	1469	369	66	1149
Churn	C. L. Leonard and A. Bever	528,000	Oct. 23	2234	539	69	457
Churn	C. A. Lorenz	531,440	Dec. 25	2417	575	69	1704
Churn	J. A. Maddox	531,204	Dec. 18	1980	470	69	1605
Churn	M. M. Montgomery	528,129	Oct. 23	2454	{ 593 594 }	{ 69 69 }	497
Churn	O. Ohlsson	528,681	Nov. 6	289	70	69	698
Churn	C. M. Roark	528,030	Oct. 23	2280	550	69	465
Churn	G. A. Rosson and C. A. Weyer	515,058	Feb. 20	1780	449	66	1219
Churn	J. H. Rouse and C. A. Schonhoff	525,865	Sept. 11	970	217	68	1339
Churn	A. Schuyler	514,085	Feb. 6	190	44	66	890
Churn	W. T. Smallwood	520,087	May 22	2008	491	67	955
Churn	L. Sturges	529,884	Nov. 27	2408	578	69	1135
Churn	W. H. Thomas	519,746	May 15	1435	316	67	833
Churn	R. E. Van Court	521,194	June 12	784	183	67	1352
Churn	R. E. Van Court	524,122	Aug. 7	262	61	68	710
Churn	R. R. Wayland	513,375	Jan. 23	2727	662	66	614
Churn	A. M. Bingham	525,580	Sept. 4	439	105	68	1233
Churn and butter-worker. Combined	D. W. Payne	527,716	Oct. 16	1702	{ 410 411 }	{ 69 69 }	344
Churn attachment	J. M. Hughes	520,566	May 29	2831	683	67	1122
Churn, &c. Automatically-operated	M. S. Thomas	523,135	July 17	1666	417	68	346
Churn. Centrifugal	R. E. Evenden	522,339	July 3	281	73, 74	68	57
Churn-cover	S. D. Palmer	530,602	Dec. 11	945	232	69	1404
Churn-dasher	J. E. Finley	523,033	July 17	1483	369	68	311
Churn-dasher	J. H. Fulton	513,041	Jan. 16	2206	528	66	443

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Churn-dasher	G. W. Parrish	527,022	Oct. 2	576	139	69	109
Churn-dasher	J. W. Ricker	514,164	Feb. 6	310	74	66	911
Churn-dasher	J. W. Ricker	521,920	June 26	2073	498	67	1626
Churn-dasher	C. S. Rogers	522,519	Oct. 30	3121	756	69	633
Churn-motor	B. J. Campbell	514,442	Feb. 13	768	197	66	1016
Churn-motor	F. Elliott	521,282	June 12	937	222	67	1380
Churn-operating mechanism	C. C. Warren	514,636	Feb. 13	1108	276	66	1079
Churn-power	M. M. Taylor	513,156	Jan. 23	2380	574	66	547
Churn. Rotary	A. McMullan	524,071	Aug. 7	171	39	68	693
Churn-vent	S. D. Palmer	516,222	Mar. 13	798	186	66	1620
Churn-vent	S. D. Palmer	516,275	Mar. 13	885	208	66	1635
Churn. Working body	G. H. Smith	512,628	Jan. 9	1483	358	66	291
Chute. Ash	L. Boford and J. Wackman	521,599	June 19	1515	354	67	1503
Chute. Coal	J. Scully	521,052	June 5	538	126	67	1294
Chute. Coal-wagon	P. Seibert	518,121	Apr. 10	1175	294	67	230
Chute for loading vessels, cars, &c	J. M. Dodge	523,851	July 31	2931	730	68	608
Chute regulator. Coal	J. F. Schmadeke	518,653	Apr. 24	2103	525	67	429
Chutes of coal or ore docks. Counterbalance mechanism for	R. W. Ericson	522,519	July 3	588	151	68	116
Cider-press	S. B. Donze	511,761	Jan. 2	32	8, 9	66	9
Cider-press	E. M. Lantz	514,831	Feb. 13	1424	359	66	1140
Cigar	E. Hotz	515,774	Mar. 6	80	19	66	1468
Cigar-band	C. Henssheim	527,687	Oct. 16	1660	400	69	336
Cigar-box	L. Rosenfeld	519,204	May 1	475	115	67	629
Cigar-box lifter	J. Deutsch	514,181	Feb. 6	340	81	66	917
Cigar-box moistening device	E. A. Rich	512,121	Jan. 2	633	156	66	125
Cigar-box moistening device	E. A. Rich	512,122	Jan. 2	654	156	66	125
Cigar-box moistening device	E. A. Rich	512,219	Jan. 2	812	197	66	154
Cigar-boxes. Match-box and cigar-cutter attachment for	C. Myhre	523,481	July 24	2274	572	68	470
Cigar-bunch machine	H. Jerstrum	528,166	Oct. 30	2511	607 608 609	69	523
Cigar-bunch machine	A. Schwehr	524,565	Aug. 14	1033	255	68	867
Cigar-bunching machine	E. Barth	530,254	Dec. 4	311	78	69	1272
Cigar-bunching machine	N. H. Borgfeldt	529,891	Nov. 27	2421	581	69	1137
Cigar-bunching machine	J. De la Mar	523,516	July 24	2333	567	68	481
Cigar-bunching machine	H. K. Gardner	528,903	Nov. 6	691	166 167	69	772
Cigar-bunching machine	F. J. Hagen	520,881	June 5	226	51	67	1239
Cigar-bunching machine	S. L. Jackson and A. P. Brann	511,892	Jan. 2	284	65	66	55
Cigar-bunching machine	H. Schmidt and C. J. Werner	530,554	Dec. 11	862	213 214	69	1382
Cigar-case	C. N. Swift	520,092	May 22	2014	492	67	956
Cigar-case. Pocket	F. Cronenwett, Jr.	522,881	July 10	1195	298	68	242
Cigar crimping and stamping machine	I. Lewis	511,960	Jan. 2	392	91	66	74
Cigar-cutter and advertising device. Combined	E. G. Hanscom	513,779	Jan. 30	3416	843	66	776
Cigar-holder	R. D. Gates	515,825	Mar. 6	154	38	66	1482
Cigar-holder	P. Sattelkan	514,280	Feb. 6	524	128	66	952
Cigar-holder	F. D. Van Wickel	522,092	June 26	2381	573	67	1632
Cigar-lighter	G. W. La Baw	526,495	Sept. 25	2062	490	68	1567
Cigar-lighter	E. T. Turney	520,095	May 22	2017	493	67	937
Cigar-lighter. Electric	A. C. Albertsen	525,437	Sept. 4	202	50	68	1189
Cigar-lighter. Electric	C. J. Coleman	530,637	Dec. 11	1011	247	69	1414
Cigar-lighter. Electric	J. J. Eberhard and C. G. Schimkatt	522,934	July 10	1300	324	68	261
Cigar-lighter. Electric	A. J. Graydon	514,651	Feb. 13	1125	281	66	1083
Cigar-lighter. Electric	D. Misell	522,415	May 29	2622	635	67	1085
Cigar-lighter. Electric	C. F. Reiff and H. Munk	522,919	July 10	1272	315	68	256
Cigar-lighter. Electric	J. Sachs	516,878	Mar. 20	1696	448	66	1-39
Cigar-moistening device	C. M. Garfield	520,141	May 22	2118	516	67	973
Cigar-mold	J. H. Ogden	530,794	Dec. 11	1263	305	69	1461
Cigar-mold	F. C. Miller	522,912	July 10	1261	311	68	254
Cigar-mold. End-opening wooden	N. Du Brul	530,403	Dec. 4	574	142	69	1320
Cigar or cigarette	P. C. Sarapata and P. Souvazoglu	527,724	Oct. 16	1720	415	69	347
Cigar-package	S. Philipson	521,041	June 5	520	123	67	1291
Cigar-package	S. Roman	526,948	Oct. 2	456	112	69	86
Cigar-piercer	C. Horn	523,858	July 31	2940	733	68	609
Cigar-piercer	J. W. Miller	522,076	June 26	2359	567	67	1678
Cigar-press	E. J. Fink	529,254	Nov. 13	1314	316	69	904
Cigar-press	C. Schuppel and C. Hübeler	519,163	May 1	402	97	67	615
Cigar-shaping machine	C. Henssheim	527,689	Oct. 16	1663	401	69	337
Cigar-stump receptacle	A. Scholz	518,827	Apr. 24	2410	596	67	483
Cigar-tip cutter	A. A. Hopkins	519,332	May 8	719	177	67	690
Cigar-tip cutter	F. H. La Pierre	513,581	Jan. 30	3097	761	66	719
Cigar-tip cutter	F. P. Sparmaker	528,996	Nov. 13	866	205	69	825
Cigar-tip cutter	A. P. Thompson	520,461	May 29	2654	641	67	1090
Cigar-tip cutter and advertising device. Combined	C. H. Gould	524,713	Ang. 21	1283	314	68	926
Cigar-tip cutter and dice-throwing apparatus	R. and E. Rabiger	512,469	Apr. 17	1800	445	67	361
Cigar-tip cutter and lighter	W. E. Duthie	514,647	Feb. 13	1119	280	66	1082
Cigar-vending machine	H. L. Kirtley	529,276	Nov. 13	1350	323 324	69	911
Cigar-vending machine	A. H. Randall, Jr	520,243	May 22	2293	556 557	67	1006
Cigar-vending machine. Coin-operated	H. L. Kirtley	527,995	Oct. 23	2224	536 537	69	455
Cigarette-cutting machine	G. F. Carlie	515,730	Feb. 27	2885	720	66	1442
Cigarette-machine	W. C. Briggs	512,150	Jan. 2	696	168 169 170	66	133
Cigarette-machine	W. C. Briggs	512,151	Jan. 2	701	170 171 172	66	134
Cigarette-machine	F. J. Hagan	522,895	July 10	1228	305 306	68	248

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Cigarette-machine.....	L. L. Maxfield.....	518,261	Apr. 17	1420	{ 355 356 100 110 111 113 114 115	{ 67	292
Cigarette-machine.....	A. Moonelis.....	514,238	Feb. 6	456	{ 110 111 113 114 115	{ 66	938
Cigarette-machine.....	A. Moonelis.....	514,240	Feb. 6	464	{ 113 114 115	{ 66	940
Cigarette-machine.....	E. T. Pollard.....	530,718	Dec. 11	1137	{ 276 277	{ 69	1436
Cigarette-machine.....	J. Riera y Hernandez.....	516,392	Mar. 13	1084	{ 257 194 195	{ 66	1669
Cigarette-machine.....	A. P. and E. P. Scaramanga.....	522,620	July 10	771	{ 194 195 464 465	{ 68	165
Cigarette-machine.....	A. P. and E. P. Scaramanga.....	525,060	Aug. 28	1896	{ 464 465 354 355	{ 68	1053
Cigarette machine. Continuous.....	A. L. Munson.....	526,192	Sept. 18	1511	{ 354 355	{ 68	1451
Cigarette-machine cutter.....	E. T. Pollard.....	529,138	Nov. 13	1103	{ 267 670	{ 69	867
Cigarette-making machine.....	H. F. M. Lemaire.....	520,530	May 29	2769	{ 670 419 420 421 422 423	{ 67	1110
Cigarette-making machine.....	J. R. Williams.....	521,749	June 19	1768	{ 421 422 423	{ 67	1551
Cigarette or match case.....	J. L. Sommer.....	527,625	Oct. 16	1557	{ 377 677	{ 69	317
Cigarette-paper. Machine for applying paraffin to.....	A. C. Marchal.....	528,332	Oct. 30	2803	{ 677 592 593	{ 69	375
Cigarette selecting and boxing machine.....	J. N. Wood.....	522,139	June 26	2467	{ 592 593	{ 67	1699
Cigarette-slide and match-box. Combined.....	J. T. Crow.....	528,763	Nov. 6	426	{ 103 107	{ 69	724
Cigarette-wrapper-cutting machine.....	A. Moonelis.....	514,236	Feb. 6	450	{ 107 108 108 109	{ 66	937
Cigarette-wrapper-cutting machine.....	A. Moonelis.....	514,237	Feb. 6	453	{ 108 109 111 112	{ 66	937
Cigarette-wrapper-cutting machine.....	A. Moonelis.....	514,239	Feb. 6	462	{ 111 112	{ 66	939
Cigarette-wrapper holder.....	J. R. Hernandez.....	521,026	June 5	485	{ 115 259	{ 67	1224
Cigarettes. Machine for the manufacture of non-pasted tubes for.....	A. E. Decouffé.....	514,569	Feb. 13	1030	{ 259	{ 66	1064
Cinch-plate.....	A. P. Weeks.....	531,580	Dec. 25	2647	{ 634 496	{ 69	1748
Circuit-breaker.....	C. C. Chesney.....	525,134	Aug. 28	2027	{ 496 1141	{ 68	1076
Circuit-breaker. Automatic.....	A. C. Carles.....	524,630	Aug. 14	1141	{ 280 596	{ 68	888
Circuit-breaker. Electric automatic.....	C. W. Larson.....	522,527	July 3	596	{ 153 612	{ 68	118
Circuit-breaker. Thermal.....	H. Klein.....	530,430	Dec. 4	612	{ 152 2829	{ 69	1327
Circuit-closer.....	C. E. Allen.....	517,401	Mar. 27	2829	{ 662 2595	{ 66	2035
Circuit-closer.....	G. W. Hey.....	520,427	May 29	2595	{ 628 270	{ 67	1079
Circuit-closer.....	H. J. Hovey.....	528,672	Nov. 6	270	{ 66 191	{ 69	694
Circuit-closer.....	H. V. Keelson.....	530,184	Dec. 4	191	{ 47 3441	{ 69	1249
Circuit-closer. Automatic.....	H. Lewers.....	513,796	Jan. 30	3441	{ 849 2657	{ 66	781
Circuit-closer. Automatic.....	J. W. White.....	523,701	July 31	2657	{ 659 2233	{ 68	557
Circuit-closing device.....	J. J. Geary.....	525,266	Aug. 28	2233	{ 545 792	{ 68	1113
Circuit-closing device.....	P. J. Walsh, Jr.....	522,632	July 10	792	{ 199 67	{ 68	169
Circuit-controller.....	E. J. McEvoy.....	514,019	Feb. 6	67	{ 171 1435	{ 66	867
Circuit-controller.....	B. B. Ward.....	524,808	Aug. 21	1435	{ 351 673	{ 68	955
Circuit-controller for regulators.....	B. B. Ward.....	527,092	Oct. 9	673	{ 165 3034	{ 69	141
Circuit-controller. Regulator.....	B. B. Ward.....	513,545	Jan. 30	3034	{ 748 2325	{ 66	707
Circuit-maker.....	D. F. Hall.....	522,055	June 26	2325	{ 558 517,502	{ 67	1671
Circuit-maker.....	J. Weaver.....	517,502	Apr. 3	147	{ 32 491	{ 67	30
Circuit making and breaking device.....	D. H. Wilson.....	514,981	Feb. 20	1659	{ 415 1282	{ 66	1199
Circuit-switch.....	E. E. Hersh, B. F. Woodward, and J. W. Pettie.....	518,188	Apr. 10	1282	{ 325	{ 67	249
Circuits. Means for neutralizing self-induction in alternating.....	E. Thomson and E. W. Rice, Jr.....	513,349	Jan. 23	2685	{ 651 652	{ 66	606
Circuits. Method of and apparatus for preventing phase-displacement in alternating.....	C. P. Steinmetz.....	513,370	Jan. 23	2719	{ 660	{ 66	612
Circuits. Safety-switch for high-potential.....	S. Harris.....	524,717	Aug. 21	1288	{ 315 2619	{ 68	927
Cistern.....	T. J. Shearer.....	521,869	June 26	1974	{ 477 305	{ 67	1607
Cistern-cleaner.....	J. W. Hawk.....	526,077	Sept. 18	1315	{ 305 234	{ 68	1415
Cistern-cleaning machine.....	J. Shepherd.....	519,074	May 1	234	{ 55 428	{ 67	581
Cistern. Portable.....	O. O. Walker and R. G. Moon.....	529,511	Nov. 20	1799	{ 428	{ 69	1012
Clamp:							
See Bale-box clamp. Hitching-clamp.							
Basin-clamp. Hose-clamp.							
Bedclothes clamp. Hose-coupling clamp.							
Bicycle-bell clamp. Ironing-table clamp.							
Brake-shoe clamp. Lace-clamp.							
Cabinet-maker's clamp. Locking-clamp.							
Casket-clamp. Neckband-clamp.							
Clothes-clamp. Pipe-clamp.							
Concentric clamp. Plow-iron clamp.							
Cutter-blade clamp. Railway-rail clamp.							
Dental clamp. Rope-clamp.							
Door or window clamp. Rubber-dam clamp.							
Fence-clamp. Saw-clamp.							
Floor-clamp. Scaffold-clamp.							
Flooring-clamp. Testing-machine clamp.							
Furniture-clamp. Time-interval clamp.							
Wagon-body clamp. Trolley-wire clamp.							
Clamp.....	D. W. Aylworth and N. B. Leslie.....	516,291	Mar. 13	906	{ 213 816	{ 66	1638
Clamp.....	A. M. Cole.....	522,651	July 10	816	{ 204 10	{ 68	173
Clamp.....	A. J. Courtney.....	523,974	Aug. 7	10	{ 3 1613	{ 68	664
Clamp.....	W. Kline.....	521,658	June 19	1613	{ 378 1977	{ 67	1522
Clamp.....	W. Yeager and B. E. Westlin.....	521,872	June 26	1977	{ 477 2306	{ 67	1608
Clamp and vise. Combined.....	C. F. Weyhe.....	529,765	Nov. 27	2306	{ 526	{ 69	1096

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				Spec.	Dr. & G.	Vol.	Page.
'Clamp device.	J. R. Hime, Sr., and W. B. Cox.	525,655	Sept. 4	563	136	68	1255
'Clamp-hook. Adjustable.	J. A. P. Berg.	527,763	Oct. 23	1789	431	69	377
'Clamp-nail.	H. C. Rasner.	515,168	Feb. 20	1855	488	66	1252
'Clamps. Manufacture of metallic binding.	E. Heynen.	526,443	Sept. 25	1983	473	68	1553
'Clamping device for machine-tools.	R. S. Peabody.	525,557	Nov. 6	54	14	69	656
'Clapboard or siding-strip for houses.	L. H. Montross.	512,966	Jan. 16	2126	505	66	427
'Clasp.							
See Boot-tree clasp.	Garment-supporting						
Button-clasp.	clasp.						
Colter-clasp.	Trowsers-clasp.						
Garment-clasp.	Veil-clasp.						
Garment-supporter							
clasp.							
'Clasp.	G. N. Buck.	515,950	Mar. 6	340	81	66	1516
'Clasp.	W. B. Draper.	513,094	Jan. 23	2276	550	66	526
'Clasp.	H. W. Hoeft.	526,781	Oct. 2	188	44	69	36
'Clasp.	P. James.	518,956	May 1	32	9	67	542
'Clasp.	E. S. Smith.	522,722	July 10	935	233	68	195
'Clasp.	J. C. Stevens.	528,699	Nov. 6	317	77	69	704
'Clasp.	J. A. Traut.	511,820	Jan. 2	111	28	66	24
'Clavo-mandolin.	C. A. Noack.	530,712	Dec. 11	1129	274	69	1435
'Clay articles. Glaze for.	B. Frey.	517,609	Apr. 3	312		67	61
'Clay-feeder.	M. F. Williams.	516,995	Mar. 20	2094	495	66	1875
'Clay mixer and feeder.	M. F. Williams.	514,690	Feb. 13	1192	297	66	1096
'Clay pigeons. Machine for manufacturing.	W. G. Jones.	519,127	May 1	332	78, 79	67	602
'Clay-product machines. Cutter for.	J. H. Omwake.	531,213	Dec. 18	1998	475	69	1609
'Clay-product machines. Die or mold for.	W. W. Wallace.	519,801	May 15	1530	373	67	851
'Clay to make ballast, &c. Burning.	H. G. Butler.	529,480	Nov. 20	1734	413	69	1001
'Clay working mill.	G. S. Tiffany.	518,636	Apr. 24	2074	{ 516 517 }	67	424
'Cleaner:							
See Boiler-cleaner.	Rail-cleaner.						
Boiler-tube or pipe	Seed-cleaner.						
cleaner.	Sewer-trap cleaner.						
Comb-cleaner.	Shoe-cleaner.						
Cotton-cleaner.	Spring-jack cleaner.						
Dish-cleaner.	Tube or flue cleaner.						
Flue-cleaner.	Wheel-cleaner.						
Gas-cleaner.	Window-cleaner.						
Grain-cleaner.							
'Cleaning and polishing compound.	O. I. Littell.	529,281	Nov. 13	1357		69	912
'Cleaning-machine.	W. Hebb.	526,970	Oct. 2	493	121	69	92
'Clead.	J. C. Steelman.	521,056	June 5	542	127	67	1295
'Clead. Ceiling.	H. P. Ball.	518,214	Apr. 17	1350	337	67	279
'Clead. Ceiling.	C. O. Wirt.	518,301	Apr. 17	1488	372	67	305
'Clead or belaying-pin. Releasing.	A. V. T. Sabroe.	525,624	Sept. 4	506	122	68	1246
'Clevis.	S. E. Bricker.	518,436	Apr. 17	1818	450	67	365
'Clevis.	W. B. Hull.	520,110	May 22	2045	500	67	962
'Clevis.	A. Morganfield.	528,009	Oct. 23	2247	542	69	459
'Clevis.	A. M. Ward.	513,854	Jan. 30	3539	872	66	802
'Clevis. Plow.	J. H. and W. S. Howard.	512,964	Jan. 16	2096	497	66	422
'Clew-ring.	T. Ayres.	527,260	Oct. 9	954	231	69	192
'Climbing hills. Mechanism for facilitating.	A. Goebel.	516,372	Mar. 13	1052	{ 249 250 }	66	1664
'Clip:							
See Wheel-rim clip.							
'Clip.	F. C. Atherton.	520,553	May 29	2809	678	67	1118
'Clip.	C. Ball.	522,774	July 10	1048	259	68	214
'Clip for letters, accounts, &c.	E. Keller.	518,252	Apr. 17	1409	353	67	290
'Clip, &c., for mail-bag and other straps.	R. D. S. Tyler.	518,681	Apr. 24	2154	539	67	439
'Clip for papers, &c.	G. P. Farmer.	513,772	Jan. 30	3407	840	66	774
'Clipper attachment. Hair.	C. O. Eechstedt.	530,964	Dec. 18	1581	375	69	1533
'Clipper for animals. Mechanical.	P. Ashberry and W. Barnes.	530,572	Dec. 11	1995	220	69	1395
'Clipper. Hair.	S. N. Chaney.	512,009	Jan. 2	466	111	66	90
'Clipper. Hair.	E. A. Cochran.	526,858	Oct. 2	312	76	69	59
'Clipper. Hair.	M. G. Gillette.	525,783	Sept. 11	803	184	68	1311
'Clipper. Hair.	J. K. Priest.	516,109	Mar. 6	601	141	66	1565
'Clipper. Hair.	J. K. Priest. (Reissue).	11,411	Apr. 10	1340	334	67	262
'Clipper. Lawn.	E. W. McGuire.	523,229	July 17	1830	461	68	375
'Clippers. Shearing.	E. A. Cochran.	511,931	Jan. 2	348	81	66	66
'Clippers. Shearing.	E. A. Cochran.	526,917	Oct. 2	419	104	69	78
'Clippers for wool or hair. Construction of mechanical.	P. Ashberry and W. Barnes.	526,359	Sept. 18	1804	427	68	1508
'Clipping machine. Hair.	O. Olsen.	511,966	Jan. 2	400	93	66	76
'Clipping machine. Hair.	O. Olsen.	522,765	July 10	1037	256	68	211
'Clipping-machines. Power-transmitter for.	J. K. Priest.	524,213	Aug. 7	423	100	68	739
'Clock.	J. Smith.	517,594	Apr. 3	290	67	67	57
'Clock. Alarm.	T. Biddinger and T. J. Kane.	529,103	Nov. 13	1045	252	69	856
'Clock. Alarm.	F. D. Hoehl.	512,963	Jan. 16	2091	{ 495 496 }	66	421
'Clock. Calendar.	C. W. Feisbtinger.	527,386	Oct. 9	1163	285	69	231
'Clock-case.	E. P. Baird.	520,979	June 5	413	99	67	1272
'Clock-case.	A. Bannatyne.	520,628	May 29	2927	708	67	1140
'Clock-case.	A. M. Lane.	511,899	Jan. 2	292	67, 68	66	56
'Clock. Chiming.	S. Willcock.	525,064	Aug. 28	1901	466	68	1054
'Clock. Electric.	F. L. Gregory.	511,946	Jan. 2	371	87	66	70
'Clock. Electric.	F. L. Gregory.	525,704	Sept. 11	665	156	68	1266
'Clock. Electric.	C. Gullberg.	527,528	Oct. 16	1405	342	69	259
'Clock. Electric alarm.	M. McDonnell.	528,678	Nov. 6	285	69	69	697
'Clock. Electric alarm.	J. S. Whitehead.	521,065	June 5	560	131	67	1298
'Clock. Electric alarm.	N. F. Whitney.	521,840	June 26	1927	{ 462 463 }	67	1597
'Clock. Electric pendulum.	H. Campiche.	514,641	Feb. 13	1113	{ 277 278 }	66	1080

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Clock. Electric program.	J. L. McCaskey	531,002	Dec. 18	1610	{ 382 383 }	69	1538
Clock. Electric tower.	C. D. Warner	518,337	Apr. 17	1555	386	67	316
Clock. Electric winding and setting.	H. Loriot	526,720	Oct. 2	84	22	69	18
Clock. Electrically-illuminated.	D. Misell	520,446	May 29	2623	635	67	1085
Clock. Musical.	H. W. Porter	528,739	Nov. 6	374	91	69	715
Clock. Musical.	H. W. Porter	529,835	Nov. 27	2327	554	69	1119
Clock or dial. Calculating.	F. A. Göttisch	530,836	Dec. 11	1326	319	69	1472
Clock-pendulum.	O. Bartel	515,855	Mar. 6	201	47	66	1490
Clock-pendulum.	O. Bartel	515,856	Mar. 6	201	47	66	1490
Clock. Pendulum.	O. Bartel	527,233	Oct. 9	908	220	69	185
Clock-sash.	A. M. Lane	522,298	July 3	217	58	68	44
Clock. Self-winding electric.	E. G. Hammer	527,786	Oct. 23	1829	440	69	385
Clock. Self-winding electric.	A. Lungen	528,960	Nov. 13	811	190	69	814
Clock spring-arbor bearing.	F. Street	515,397	Feb. 27	2839	707	66	1433
Clock striking apparatus.	C. D. Brown.	517,338	Apr. 10	696	176	67	150
Clock striking mechanism. Electric.	F. L. Gregory	520,184	May 22	2191	534	67	987
Clock striking mechanism. Electric.	C. D. Warner.	520,585	May 29	2861	692	67	1129
Clock synchronizer. Electric.	H. S. Prentiss	517,480	Apr. 3	109	24, 25	67	23
Clock synchronizing mechanism. Electric.	E. Ayres	525,779	Sept. 11	792	183	68	1308
Clock system. Electric.	J. H. Gerry and F. M. Schmidt	513,469	Jan. 23	2887	{ 710 711 712 }	66	644
Clock-winding mechanism. Electric.	A. E. Vidal and G. Herriou	521,396	June 12	1140	{ 269 270 }	67	1419
Clocks. Apparatus for adjusting the beat of pendulum.	F. Kroeber	526,399	Sept. 25	1886	448	68	1536
Clocks. Electric synchronizer for.	L. von Orth	522,724	July 10	951	{ 236 237 }	68	197
Clock. Gravity-escapement for.	H. Conant	519,421	May 8	890	213	67	721
Clod crusher and pulverizer.	H. J. Nelson and N. M. Nielsen	520,799	June 5	75	16	67	1211
Closet.							
See Dry closet.	Sanitary closet.						
Dry-air closet.	Water-closet.						
Flushing-closet.							
Closet-pull attachment.	L. M. Hooper	529,123	Nov. 13	1074	259	69	862
Closet-seat.	W. G. Vollmer	527,821	Oct. 23	1880	451	69	393
Cloth-cutting machine.	J. Bloch	528,220	Oct. 30	2613	690	69	541
Cloth-cutting machine.	P. Howe	520,698	May 29	2883	637	67	1133
Cloth-cutting machine.	A. Long	525,502	Sept. 4	303	74, 75	68	1208
Cloth-cutting machine.	N. Rubenstein	521,003	June 5	450	107	67	1278
Cloth-cutting machine.	A. K. Thyll	513,741	Jan. 30	3364	830	66	786
Cloth-cutting machine.	A. Thyll	527,224	Oct. 9	892	216	69	181
Cloth-cutting machine.	J. Wolf, Jr.	528,217	Oct. 30	2607	{ 628 629 }	69	540
Cloth-cutting machines. Take-up for conductors of.	J. Wolf, Jr.	527,354	Oct. 9	1111	271	69	221
Cloth-folding machine.	W. A. Richardson	519,073	May 1	231	54	67	580
Cloth-folding machine.	J. E. Windle	523,499	July 24	2306	581	68	476
Cloth-holder.	W. H. Cummings	527,109	Oct. 9	706	173	69	147
Cloth-laying machine.	A. Eloesser	529,855	Nov. 27	2365	565	69	1127
Cloth. Method of and machine for finishing.	W. Hebdon	513,926	Jan. 30	3641	898	66	821
Cloth. Method of and machine for fulling.	H. Balbian	529,579	Nov. 20	1911	455	69	1033
Cloth napping and brushing roller.	L. Clarenbach, Jr.	522,728	July 10	958	238	68	198
Cloth-napping machine.	H. S. and T. H. Greene	522,560	July 3	655	{ 166 167 168 }	68	128
Cloth-napping machine.	E. Schweinefleisch	522,497	July 3	547	{ 139 140 }	68	108
Cloth-notching machine.	J. Wolf, Jr.	528,216	Oct. 30	2606	628	69	540
Cloth, paper, &c. Machine for cutting, folding, and piling.	F. Meisel	517,653	Apr. 3	400	{ 96 97 98 }	67	77
Cloth-pressing machine.	E. Gessner	512,610	Jan. 9	1454	352	66	286
Cloth sizing and drying machine.	R. Partington	519,200	May 1	465	114	67	627
Cloth-sponging cylinder.	R. K. Colson	523,107	July 17	1699	404	68	337
Cloth-sponging machine.	T. Sarfert	516,945	Mar. 20	2012	{ 474 475 }	66	1860
Cloth-stretching machine.	J. Muir	527,441	Oct. 16	1255	308	69	260
Clothes-clamp.	B. P. Reilly	525,029	Aug. 28	1833	447	68	1042
Clothes-drier.	F. J. Bailey	522,576	July 10	690	{ 175 176 }	68	151
Clothes-drier.	F. J. Bailey	522,577	July 10	694	176	68	152
Clothes-drier.	J. Brown	526,889	Oct. 2	364	91	69	68
Clothes-drier.	C. F. Casper and T. S. Darling	519,378	May 8	808	197	67	707
Clothes-drier.	C. E. Cochrane	528,222	Oct. 30	2614	630	69	541
Clothes-drier.	R. Douglas and J. F. Austin	519,178	May 1	429	105	67	620
Clothes-drier.	G. Finkbeiner	531,524	Dec. 25	2557	612	69	1730
Clothes-drier.	E. B. Gildersleeve	521,368	June 12	1100	258	67	1412
Clothes-drier.	J. P. Hill	516,331	Mar. 13	971	230	66	1650
Clothes-drier.	P. Jodoin	523,315	July 17	1978	497	68	403
Clothes-drier.	P. J. Meslein	527,707	Oct. 23	1976	475	69	410
Clothes-drier.	W. H. Moseley	527,705	Oct. 16	1690	407	69	342
Clothes-drier.	B. F. Nicholas	527,003	Oct. 2	542	133	69	102
Clothes-drier.	L. W. Pond	526,115	Sept. 18	1382	322	68	1427
Clothes-drier.	J. Reilly	529,628	Nov. 20	1977	471	69	1046
Clothes-drier.	O. M. Shannon	513,285	Jan. 23	2590	{ 627 628 }	66	589
Clothes-drier.	H. R. Sheets	524,869	Ang. 21	1540	376	68	972
Clothes-drier.	E. S. Sutton	520,501	May 29	2724	660	67	1102
Clothes-line.	F. S. McKay	515,354	Feb. 27	2284	566	66	1326
Clothes-line attachment.	E. J. Van Wormer	516,068	Mar. 6	545	127	66	1554
Clothes-line fastener.	C. Bartsch	531,248	Dec. 18	2063	433	69	1619
Clothes-line fastener.	H. Botka	521,971	June 26	2177	523	67	1645
Clothes-line fastener.	C. J. Brown	529,703	Nov. 27	2106	505	69	1079

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Clothes-line fastener.....	C. S. Buckwalter.....	519,526	May 8	1076	257	67	755
Clothes-line. Pinless.....	J. P. Kirk.....	512,715	Jan. 16	1634	392	66	336
Clothes-line pulley.....	J. M. Murphy.....	515,714	Feb. 27	2867	714	66	1438
Clothes-line reel.....	A. S. Fonda.....	524,167	Aug. 7	345	81	68	724
Clothes-line reel.....	A. W. Foster.....	523,853	July 31	2933	731	68	608
Clothes-line support.....	C. G. Norlin and F. Lindstrom	518,621	Apr. 24	2044	502	67	419
Clothes-line support. Adjustable safety.....	R. McNab.....	515,355	Feb. 27	2286	{ 566 567 }	{ 66 67 }	1327
Clothes-line swinging support.....	B. M. Erslev.....	518,397	Apr. 17	1671	413	67	338
Clothes-pin.....	S. German.....	519,992	May 15	1849	452	67	910
Clothes-pin.....	T. J. Gordon.....	520,957	June 5	373	91	67	1265
Clothes-pin.....	G. W. McCoole.....	527,500	Oct. 16	1353	330	69	221
Clothes-pin.....	W. D. Watkins.....	527,911	Oct. 23	2055	493	69	425
Clothes-pin box.....	J. W. Pike.....	516,279	Mar. 13	891	210	66	1636
Clothes-pin. Double.....	J. N. Edmondson.....	516,390	Mar. 13	1081	257	66	1669
Clothes-pin machine.....	C. W. Hall.....	513,572	Jan. 30	3082	{ 758 759 }	{ 66 67 }	716
Clothes-pounder.....	N. D. Lewis.....	524,422	Aug. 14	804	196	68	825
Clothes-pounder.....	J. J. Sheehy.....	523,601	July 24	2465	619	68	506
Clothes-rack.....	T. M. Anderson.....	528,498	Oct. 30	3091	749	69	627
Clothes-wringer.....	C. Wheeler, Jr.....	517,725	Apr. 3	621	155	67	121
Clothes-wringer and wash-tub. Combined.....	C. F. and W. Lewis.....	518,412	Apr. 17	1697	421	67	343
Clothes-wringer gear-casing.....	W. I. Gong.....	515,910	Mar. 6	278	65	66	1505
Clover-feeder.....	W. E. Ayers.....	518,480	Apr. 17	1812	448	67	364
Clover-huller feeder.....	J. N. Kallor and M. T. Reeves	514,193	Feb. 6	362	87	66	922
Clover-huller feeder.....	M. T. Reeves and J. N. Kallor	521,347	June 12	1069	250	67	1406
Clutch.....	G. E. Anderson.....	512,932	Jan. 16	2039	483	66	412
Clutch.....	G. E. Anderson.....	512,933	Jan. 16	2040	483	66	412
Clutch.....	M. H. Avery.....	516,422	Mar. 13	1130	269	66	1679
Clutch.....	S. P. Babcock.....	519,899	May 15	1686	411	67	881
Clutch.....	D. Bennett.....	520,015	Nov. 13	900	212	69	829
Clutch.....	H. H. Binger.....	512,148	Jan. 2	693	167	66	133
Clutch.....	M. Campbell.....	520,949	June 5	361	88	67	1263
Clutch.....	H. W. Hill.....	516,269	Mar. 13	878	206	66	1633
Clutch.....	E. L. Jones.....	520,528	May 29	2766	669	67	1110
Clutch.....	B. McGovern.....	512,736	Jan. 16	1663	399	66	341
Clutch.....	M. F. McMahon and T. F. Carver	520,447	May 29	2624	635	67	1085
Clutch.....	W. Oesterlein.....	515,091	Feb. 20	1825	{ 460 461 }	{ 66 67 }	1228
Clutch.....	C. Sinning.....	518,865	Apr. 24	2462	610	67	493
Clutch.....	T. J. Thorp.....	521,059	June 5	551	129	67	1296
Clutch.....	C. A. Weller.....	524,797	Aug. 21	1419	347	68	951
Clutch.....	J. N. Wilson.....	512,643	Jan. 9	1519	365	66	299
Clutch. Adjustable friction.....	G. H. Smith.....	521,677	June 19	1647	{ 385 386 }	{ 67 68 }	1528
Clutch. Automatic stop.....	A. C. Campbell.....	519,173	May 1	420	102	67	618
Clutch-coupling.....	J. B. Allfree.....	522,395	July 3	326	99	68	76
Clutch-coupling.....	T. F. McGee and E. J. McCarty	528,012	Oct. 23	2250	543	69	460
Clutch. Driving.....	M. C. Johnson.....	527,064	Oct. 9	639	155	69	135
Clutch. Friction.....	J. A. Barnes.....	531,014	Dec. 18	1634	{ 387 388 }	{ 69 70 }	1542
Clutch. Friction.....	W. D. Ewart.....	524,585	Aug. 14	1057	261	68	872
Clutch. Friction.....	J. Hartness.....	530,339	Dec. 4	466	117	69	1299
Clutch. Friction.....	A. Harvey.....	520,109	May 22	2044	499	67	961
Clutch. Friction.....	T. A. Hayes.....	519,951	May 15	1767	433	67	895
Clutch. Friction.....	E. D. Schmidt.....	529,755	Nov. 27	2190	522	69	1093
Clutch. Friction.....	M. D. Smalley.....	515,450	Feb. 27	2441	605	66	1355
Clutch. Friction.....	W. R. Smith.....	529,314	Nov. 13	1422	342	69	925
Clutch. Friction.....	T. A. Weston.....	523,874	July 31	2966	{ 737 738 }	{ 68 69 }	615
Clutch. Friction.....	R. T. Wingo.....	526,171	Sept. 18	1474	{ 344 345 }	{ 68 69 }	1444
Clutch. Frictional and positive.....	F. E. Brightman.....	516,610	Mar. 20	1505	359	66	1765
Clutch. Frictional and positive.....	W. E. Chalfant.....	522,587	July 10	703	{ 180 181 }	{ 68 69 }	155
Clutch. Machinery.....	W. D. Butz.....	518,051	Apr. 10	1064	269	67	210
Clutch mechanism.....	L. E. Mansfield.....	530,701	Dec. 11	1115	271	69	1432
Clutch. Pneumatic.....	J. F. Byers.....	517,679	Apr. 3	446	108	67	86
Clutch. Reciprocating.....	L. Porter.....	524,530	Aug. 14	974	239	68	856
Clutch. Rope.....	D. W. Orcutt.....	520,570	May 29	2836	685	67	1123
Clutch. Split-pulley friction.....	L. S. Bache.....	515,271	Feb. 20	2130	529	66	1285
Coach. Invalid's.....	R. R. Bennett.....	518,331	Apr. 24	2416	{ 598 599 }	{ 67 68 }	484
Coach-step.....	B. D. Druen.....	527,596	Oct. 16	1514	367	69	309
Coach-steps. Making.....	B. D. Druen.....	515,954	Mar. 6	347	82	66	1518
Coagulant.....	J. Van Ruymbeko.....	525,242	Aug. 28	2203	.....	68	1106
Coal and mineral washer.....	E. Ramsay.....	528,803	Nov. 6	500	121	69	737
Coal-box. Portable.....	T. Bokenhofer and E. H. Weiss	528,072	Oct. 23	2347	566	69	478
Coal-breaker.....	E. B. Cox.....	527,411	Oct. 16	1207	296	69	252
Coal-breaking apparatus.....	E. B. Cox.....	527,412	Oct. 16	1210	296	69	253
Coal-conveyer.....	H. L. Carstein.....	520,133	May 22	2104	{ 511 512 }	{ 67 68 }	971
Coal-cutting machine.....	A. Greenwood.....	521,263	June 12	907	214	67	1374
Coal-drill.....	G. H. Bittenbender.....	519,466	May 8	957	232	67	734
Coal-drill.....	J. Collier.....	525,093	Aug. 28	1956	478	68	1063
Coal-drill.....	M. Hardsocg.....	513,320	Jan. 23	2641	640	66	598
Coal-drill.....	P. Sauer.....	527,814	Oct. 23	1870	449	69	332
Coal-drill.....	J. W. Shallenberger.....	518,703	Apr. 24	2195	542	67	446
Coal-drill.....	G. W. Thayer.....	516,512	Mar. 13	1291	307	66	1708
Coal-dump.....	J. J. Lane.....	522,240	July 10	1147	284	68	232
Coal. Duplex revolving screen for cleaning and grading.....	L. Aulmann.....	513,973	Feb. 6	3	1	66	855
Coal-dust-firing apparatus.....	C. Wegener.....	519,784	May 15	1504	{ 365 366 }	{ 67 68 }	846

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Coal-elevators. Self-dumping mechanism for.....	A. Walker.....	517,782	Apr. 3	616	{ 153 154	67	120
Coal-hod.....	J. H. Humbert.....	527,333	Oct. 9	1075	260	69	214
Coal in bulk. Apparatus for handling.....	P. B. Clarke.....	512,680	Jan. 16	1575	{ 378 379	66	325
Coal or coke fork.....	J. Kreitz.....	526,109	Sept. 18	1372	320	68	1425
Coal or ore separating apparatus.....	F. Pardee.....	528,386	Oct. 30	2896	701	69	592
Coal or rock drilling machine.....	E. Carnduff.....	526,294	Sept. 18	1683	397	68	1483
Coal-screen.....	G. F. Blakeslee.....	528,526	Nov. 6	9	4	69	648
Coal-screen.....	G. W. Cross.....	526,562	Sept. 25	2152	516	68	1385
Coal-screen.....	G. W. Cross.....	528,289	Oct. 30	2732	659	69	563
Coal-screen. Revolving.....	G. W. Cross.....	524,577	Aug. 14	1047	258	68	870
Coal-scuttle.....	J. W. Krieger.....	524,764	Aug. 21	1366	333	68	941
Coal-separator.....	W. H. Herring.....	520,524	May 29	2758	668	67	1108
Coal, stone, &c. Machinery for cutting.....	T. Heppell and J. G. and W. Patterson.....	529,790	Nov. 27	2245	535	69	1103
Coal washer and separator.....	T. M. Righter.....	531,562	Dec. 25	2618	627	69	1742
Coal.....	N. Schloss.....	527,561	Oct. 16	1452	353	68	298
Coal and bat hook.....	F. Taylor. (Reissne).....	11,416	Apr. 24	2600	643	67	519
Coats, vests, &c. Device for supporting.....	M. F. Koernig.....	528,601	Nov. 6	139	34	69	672
Coated with metallic alloys. Articles.....	S. O. Cowper-Coles.....	512,160	Jan. 2	726	.....	66	138
Coating cast-iron with other metals or alloys.....	L. R. Nourse.....	516,551	Mar. 13	1347	.....	66	1720
Coating metal plates. Apparatus for.....	T. L. Thomas.....	527,628	Oct. 16	1561	378	69	318
Coating metals with oxids.....	C. R. Arnold.....	514,896	Feb. 20	1537	.....	66	1176
Cob-pipe-boring machine.....	P. Lane.....	516,208	Mar. 13	776	181	66	1613
Cock. Ball.....	J. H. Stevens, Jr.....	525,870	Sept. 11	977	219	68	1341
Cock. Blow-off.....	W. McIntosh.....	529,133	Nov. 13	1093	264	69	865
Cock box. Stop.....	B. C. Anderson.....	529,638	Nov. 20	2000	478	69	1050
Cock box. Stop.....	T. J. Ryan.....	520,542	May 29	2786	{ 673 674	67	1114
Cock box. Stop.....	N. C. Sund.....	514,633	Feb. 13	1100	273	66	1078
Cock float. Ball.....	W. H. Bate.....	513,474	Jan. 30	2900	715	66	682
Cock for air-brake systems. Stop.....	J. C. McNabb.....	523,081	July 17	1545	387	68	324
Cock for air brakes and signals. Safety.....	S. A. D. Heath.....	513,505	Jan. 30	2959	728	66	693
Cock for gas-stoves, &c.....	J. B. Wallace.....	527,567	Oct. 16	1461	356	69	300
Cock. Gage.....	G. Binder.....	517,426	Apr. 3	7	2	67	4
Cock. Gage.....	C. R. Moore.....	531,593	Dec. 25	2668	641	69	1752
Cock. Gas-burner.....	G. A. Ries.....	518,536	Apr. 17	1907	472	67	380
Cock. High-pressure ball.....	H. C. Weeden.....	515,699	Feb. 27	2842	707	66	1434
Cock or faucet. Self-closing.....	T. Bonroa.....	514,879	Feb. 13	1502	377	66	1155
Cock. Safety gas.....	G. W. Cini and G. Maiwald.....	518,091	Apr. 10	1124	284	67	221
Cock. Self-lubricating stop.....	E. M. Dart.....	522,515	July 3	580	148	68	114
Cock. Stop.....	A. Campbell.....	512,537	Jan. 9	1347	325	66	266
Cock. Stop.....	G. Munger.....	512,692	Jan. 16	1973	460	66	401
Cock. Stop and waste.....	H. Mueller.....	513,272	Jan. 23	2575	623	66	586
Cock. Train-pipe stop.....	J. O'Leary.....	517,707	Apr. 3	496	119	67	96
Cocks automatically. Machine for grinding.....	C. M. Jarvis.....	521,980	June 26	2200	{ 529 530	67	1649
Cocks. Safety device for locking gas.....	A. and S. Kohn.....	527,206	Oct. 9	850	209	69	175
Cocks. Stem connection for four-way.....	R. M. Dixon.....	528,658	Nov. 6	247	61, 62	69	691
Cockeye. Spring.....	W. Finter.....	530,758	Dec. 11	1206	294	69	1449
Cocoanut. Preparing and preserving.....	N. A. Closson.....	527,139	Oct. 9	758	.....	69	156
Coffee-boiler.....	J. W. Carpenter.....	523,656	July 31	2561	642	68	542
Coffee cleaning and separating machine.....	J. S. Miller.....	530,546	Dec. 11	846	{ 209 210	69	1326
Coffee-drying apparatus.....	R. P. Hocking.....	521,859	June 26	1957	{ 472 473	67	1603
Coffee-flask.....	H. Kaplan.....	511,780	Jan. 2	59	15	66	14
Coffee hulling, scouring, and cleaning machine.....	D. B. Fraser.....	528,595	Nov. 6	128	30, 31	69	669
Coffee-making apparatus.....	B. F. Gage.....	514,592	Feb. 13	1034	200	66	1065
Coffee-making machine.....	J. List and W. B. Smith.....	517,283	Mar. 27	2596	{ 608 609	66	1998
Coffee-mill.....	C. D. Anderson.....	528,499	Oct. 30	3092	750	69	628
Coffee-mill.....	O. Leinbrock.....	517,614	Apr. 3	323	76	67	63
Coffee or tea pot.....	W. O. Byrd.....	528,201	Oct. 30	2576	623	69	534
Coffee or tea pot condenser and dripper.....	J. A. McClellan.....	515,008	Feb. 20	1696	426	68	1205
Coffee or tea pot handle.....	O. W. Pierce.....	527,182	Oct. 9	822	200	69	168
Coffee or tea pot. Steam.....	G. Lanbe.....	524,281	Aug. 7	524	123	68	756
Coffee-percolator.....	H. Wilson.....	530,149	Dec. 4	123	31	69	1237
Coffee-pot.....	W. A. Barrington.....	519,657	May 8	1298	310	67	794
Coffee-pot.....	N. O. Bond.....	529,238	Nov. 13	1283	308	69	898
Coffee-pot.....	C. C. Davis.....	531,164	Dec. 18	1910	455	69	1593
Coffee-pot.....	J. S. Dunlap.....	520,039	May 22	1919	470	67	938
Coffee-pot.....	T. Glynn.....	530,835	Dec. 11	1324	318	69	1472
Coffee-pot.....	J. Tobin.....	526,331	Sept. 18	1752	415	68	1499
Coffee-pot.....	W. D. Wells.....	523,188	July 17	1761	442	68	363
Coffee pot and filter.....	C. H. Huxford.....	519,020	May 1	132	33	67	561
Coffee-pot attachment.....	H. B. Adams.....	529,349	Nov. 20	1479	356	69	957
Coffee-pot attachment. Adjustable.....	H. P. During.....	528,594	Nov. 6	127	30	69	669
Coffee-pot holder.....	C. E. Presnell.....	529,953	Nov. 27	2526	608	69	1156
Coffee-pot percolator.....	J. T. Appleberg.....	512,675	Jan. 16	1566	377	66	323
Coffee-roaster.....	E. R. Jones and G. Little.....	514,553	Feb. 13	960	243	66	1052
Coffee-stirrer.....	I. M. Ginn.....	513,179	Jan. 23	2415	583	66	554
Coffee substitutes. Making.....	R. Rahr.....	521,509	June 19	1364	.....	67	1477
Coffee substitutes. Preparing.....	H. Trillich.....	513,252	Jan. 23	2543	.....	66	579
Coffee, tea, &c. Device for steaming.....	J. F. Hornberger.....	530,308	Dec. 4	408	102	69	1289
Coffin attachment.....	C. D. Shrader.....	519,649	May 8	1285	307	67	792
Coffin hand-lift.....	W. H. Pope.....	526,134	Sept. 18	1413	329	68	1434
Coffin-handle.....	L. G. Kregel.....	519,678	May 8	1328	321	67	800
Coffin-handle.....	C. F. Mosman.....	524,786	Aug. 21	1399	341	68	948
Coffin-lid fastening and hinge.....	L. G. Kregel.....	523,041	July 17	1493	371	68	313
Coffin-lid hinge and fastener.....	W. C. Langenau.....	522,218	July 3	76	16	68	15
Coil. Reactive.....	H. Lemp.....	519,335	May 8	724	178	67	691
Coil. Resistance.....	H. P. Davis.....	513,457	Jan. 23	2869	704	66	641

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Coil. Self-induction	C. F. Scott	513,425	Jan. 23	2798	686	66	629
Coin-actuated lock	J. W. Patterson	531,328	Dec. 25	2210	529	69	1663
Coin-carrying envelope	P. L. Fison and H. Illingworth	522,753	July 10	1014	251	68	207
Coin-case	R. L. Chope	527,266	Oct. 9	964	234	69	194
Coin-controlled apparatus	C. H. Jacot	518,720	Apr. 24	2235	556	67	453
Coin-controlled apparatus	J. B. Miller	512,205	Jan. 2	749	192	66	149
Coin-controlled apparatus	G. F. W. Schultze	514,664	Feb. 13	1147	286	66	1087
Coin-controlled machine	W. M. Ducker	519,701	May 15	1369	330	67	821
Coin-controlled machine	W. T. Lewis (Reissue)	11,415	Apr. 17	1982	490	67	393
Coin-controlled machine	H. A. Manley	524,833	Aug. 21	1487	363	68	963
Coin-controlled machine	W. Reeves	526,539	Sept. 25	2121	508	68	1579
Coin-controlled machine	I. Richardson	527,886	Oct. 23	2010	482	69	416
Coin-controlled machines. Means for protecting receiving-openings of	A. L. Peirce	517,012	Mar. 20	2118	501	66	1880
Coin-controlled mechanism	H. A. Manley	520,931	June 5	337	82	67	1258
Coin counter and deliverer	F. W. Nall	518,676	Apr. 24	2146	537	67	438
Coin discharging and delivering device	P. G. Wagner	520,623	May 29	2917	705	67	1139
Coin-displayer	J. P. Cleal	521,637	June 19	1580	369	67	1515
Coin-holder	F. E. Armitage	522,311	July 3	234	62	68	47
Coin-holder	J. W. Grant	530,685	Dec. 11	1088	264	69	1428
Coin holding and delivering device	C. C. Earnist	522,933	July 10	1298	324	68	261
Coin holding and delivering device	C. F. Kraump	530,997	Dec. 18	1601	381	69	1536
Coin-operated device	C. M. Stiner	515,375	Feb. 27	2321	575	66	1333
Coin-operated lock	F. Meyer	515,437	Feb. 27	2434	600	66	1352
Coin-operated mechanism	J. W. Patterson	531,327	Dec. 25	2308	529	69	1663
Coin-package	W. F. Beasley	522,643	July 10	804	201	68	171
Coin package-delivery device	C. H. Wood	522,816	July 10	1114	276	68	226
Coin-receiving apparatus	C. C. Clawson	517,094	Mar. 27	2290	539	66	1929
Coin-receiving apparatus	C. C. Clawson	517,840	Apr. 10	698	177	67	159
Coin-receptacle	A. W. Jones	515,525	Feb. 27	2559	634	66	1378
Coin-receptacle	H. Russell	517,071	Mar. 27	2251	533	68	1921
Coin separator and deliverer	R. E. Hanvey	512,959	Jan. 16	2085	494	66	420
Coin-slot machine	C. P. Young	513,224	Jan. 23	2477	598	66	565
Coin-slot machine	C. P. Young	513,225	Jan. 23	2479	599	66	566
Coin sorting and packaging device	F. E. Armitage	522,310	July 3	232	62	68	47
Coin-tray	H. A. Hayden	518,948	May 1	21	6	67	940
Coke-oven	T. Bauer	513,257	Jan. 23	2549	613	66	580
Coke-oven	F. Brunck	516,184	Mar. 13	731	171	66	1605
Coke-oven	T. and J. Cummings	523,397	July 24	2113	531	68	443
Coke-oven	A. D. Shrewsbury	523,602	July 24	2466	619	68	506
Coke-oven	A. R. Strachan	511,974	Jan. 2	414	96	66	79
Coking-furnace	N. K. H. Ekelund	514,546	Feb. 13	949	240	66	1049
Cold-storage building	A. I. Dexter	525,695	Sept. 11	650	152	68	1283
Cold-storage structure	O. H. Burnham and J. J. Meyers	515,285	Feb. 20	2154	535	66	1290
Collapsible box	J. Jowett	523,038	July 17	1490	370	68	313
Collapsible box	A. Orth	518,270	Apr. 17	1442	360	67	296
Collar and cuff case. Traveler's combined	L. D. Dozier. (Reissue)	11,421	June 5	697	163	67	1322
Collar and cuff holder for luggage-carriers	G. S. Eggeman	513,770	Jan. 30	3404	839	66	774
Collar and hame. Horse	D. K. Bill	517,021	Mar. 27	2151	510	66	1903
Collar and hames. Combined	F. D. Pelletier	523,406	July 24	2132	535	68	446
Collar and hames. Combined horse	H. Eckardt	528,668	Nov. 6	638	152	69	763
Collar and hames. Combined horse	G. C. Hale	529,733	Nov. 27	2153	514	69	1086
Collar and stiffener therefor	S. D. McElroy	513,337	Jan. 23	2668	647	66	603
Collar-fastener	E. E. Kerl	512,974	Jan. 16	2108	501	66	424
Collar fastener. Horse	M. T. Burke	528,143	Oct. 30	2480	601	69	517
Collar fastener. Horse	H. W. Cooper	557,142	Oct. 9	763	186	69	157
Collar fastener. Horse	O. Drake	529,523	Nov. 20	1821	433	69	1016
Collar. Horse	P. K. Coover	520,413	May 29	2571	622	67	1076
Collar. Horse	N. Cunningham	522,685	July 10	872	215	68	184
Collar. Horse	W. T. Fell	528,422	Oct. 30	2955	715	69	603
Collar. Horse	J. Mullen	519,585	May 8	1174	282	67	773
Collar. Horse	E. C. Phillips	528,490	Oct. 30	3078	746	69	625
Collar or cuff	R. M. Hunter	520,825	June 5	126	27	67	1220
Collar or cuff shaping machine	E. G. Smith	529,143	Nov. 13	1113	269	69	869
Collar-shaping apparatus. Horse	A. F. Dunavan	519,381	May 8	812	198	67	708
Collar-stuffing machine. Horse	J. Gebauer	529,721	Nov. 27	2134	511	69	1084
Collars. Device for shaping folds of linen	A. C. Vail	521,061	June 5	554	129	67	1297
Collars. Machine for forming turndown or rolled	R. N. Martz	526,246	Sept. 18	1607	376	68	1469
Collars. Machine for turning over tips of stand-up	A. W. Cummings	530,091	Dec. 4	26	8	69	1219
Collars on shirts. Device for holding	A. Feiner and T. G. Saxton	514,454	Feb. 13	790	202	66	1020
Collars or cuffs on shirts. Device for holding	A. Feiner and T. G. Saxton	528,469	Oct. 30	3044	739	69	619
Color-harmonizer	E. Kreutzer	513,399	Jan. 23	2766	674	66	622
Color. Mineral	J. Sachs and A. Müller-Jacobs	512,224	Jan. 2	821	.....	66	156
Color. Mineral	J. Sachs and A. Müller-Jacobs	512,225	Jan. 2	822	.....	66	156
Color. Mineral	J. Sachs and A. Müller-Jacobs	512,226	Jan. 2	823	.....	66	156
Coloring apparatus. Skin	A. F. Jones	513,642	Jan. 30	3197	784	66	736
Coloring matter from logwood and making same	P. T. Austen	529,691	Nov. 27	2026	.....	69	1076
Colter-clasp	F. E. Davis	526,926	Nov. 13	755	177	69	805
Column	N. Poulson	521,320	June 12	1009	237	67	1393
Column. Building	H. B. Murlless	512,049	Jan. 2	530	125	66	101
Column for structural metal-work	E. Haupt	530,044	Nov. 27	2704	650	69	1192
Column or pile. Metallic	R. Gray	520,047	May 22	1932	474	67	941
Comb	See Currycomb.						
Comb	J. W. Howlett	523,665	July 31	2593	646	68	547
Comb	J. P. Noyes	531,468	Dec. 25	2463	587	69	1712
Comb	N. Rheinberg	527,509	Oct. 16	1371	334	69	283

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Comb and comb-cleaner	A. Brunner	513,980	Feb. 6	12	3	66	857
Comb-cleaner	J. Cooper	525,337	Sept. 4	21	5	63	1155
Comb-cleaner	H. Fisher	520,731	May 29	3109	753	67	1173
Comb-cleaner	G. W. Richardson	520,613	May 29	2905	701	67	1137
Comb for fiber-feeding machines. Revolving	J. C. Potter	523,818	July 31	2862	711	63	596
Combining-machine	A. L. Haggas and R. Heaton	527,243	Oct. 9	923	222	69	187
Combining machines. Dabbing-brush apparatus for wool	I. Rushworth	525,429	Sept. 4	190	48	68	1186
Combining-machines. Driving mechanism for drawing-off rollers of	C. Cholerton	527,664	Oct. 16	1621	391	69	329
Combination-case	A. J. Estlow	528,421	Oct. 30	2953	715	69	602
Combination-case for cards, &c	A. J. Estlow	528,420	Oct. 30	2951	{ 714 715 }	69	602
Combination-lock	H. Barditzky	528,585	Nov. 6	103	26	69	665
Combination-lock	J. Bois	528,651	Nov. 6	235	58	69	688
Combination-lock	E. W. Goodrich	512,187	Jan. 2	701	185	66	145
Combination-lock	J. T. Hoile	513,325	Jan. 23	2646	642	66	599
Combination-lock	W. B. Humphrey	526,709	Oct. 2	65	17	69	15
Combination-lock	F. Jr., and C. Meloche	516,685	Mar. 20	1585	378	68	1781
Combination-lock	J. H. Whittington	524,750	Aug. 21	1341	328	68	937
Combination-wrench	W. S. Clay	529,707	Nov. 27	2112	506	69	1080
Combustible material	E. Scott	523,600	July 24	2464	{ 618 619 }	68	506
Combustion apparatus	E. F. Paddon	523,233	July 17	1836	462	68	376
Combustion of fuel. Smokeless	M. M. Armstrong	522,187	July 3	2	1	68	3
Commode	E. Leslie	529,076	Nov. 13	1004	242	69	848
Commode	D. H. Murphy. (Reissue)	11,410	Mar. 27	2873	673	66	2044
Communion-service	J. G. Thomas	516,065	Mar. 6	540	126	66	1553
Commutator	H. L. Bridgman	531,406	Dec. 25	2342	558	69	1689
Commutator	E. R. Francis	516,732	Mar. 20	1672	396	66	1795
Commutator	J. C. Fyfe	522,052	June 26	2320	557	67	1670
Commutator	C. Hoffmann	520,264	May 22	2331	566	67	1013
Commutator	H. G. Reist	526,742	Oct. 2	123	29	69	24
Commutator	G. A. Rollins	513,533	Jan. 30	3016	745	66	703
Commutator and connection for dynamos	G. Wilkes	512,853	Jan. 16	1906	{ 450 451 }	66	338
Commutator-brush	G. W. Brown	518,913	Apr. 24	2552	631	67	511
Commutator-brush	R. Kersberg	519,188	May 1	446	109	67	623
Commutator-brush	J. F. Kester	514,150	Feb. 6	289	70	66	908
Commutator-brush for dynamos	G. Forbes	529,784	Nov. 27	2234	532	69	1101
Commutator-brush holder	G. Ranch	527,127	Oct. 9	742	182	69	153
Commutator connection	C. A. Lieb	516,827	Mar. 20	1812	430	66	1822
Commutator-connector	O. N. Turner	516,853	Mar. 20	1855	439	66	1831
Commutator-cylinder	A. J. Shaw	524,793	Aug. 21	1411	344	68	950
Commutator. Electric-machine	O. Olivetti	516,447	Mar. 13	1175	{ 281 282 }	66	1688
Commutator for dynamo-electric machines	G. F. Card	524,884	Aug. 21	1565	382	68	977
Commutator for dynamo-electric machines	H. L. Fee	513,460	Jan. 23	2875	706	66	642
Commutator for dynamo-electric machines	J. Hoffman	523,663	July 31	2591	646	68	546
Commutator for dynamo-electric machines	E. Thomson	523,019	July 17	1460	363	68	307
Commutators for dynamos or motors. Constructing	E. Thomson	516,845	Mar. 20	1842	436	66	1828
Commutators of dynamos. Device for blowing out sparks on	H. W. Hanahan	512,612	Jan. 9	1457	352	66	286
Compartment vessel or holder	L. A. Moore	514,488	Feb. 13	856	218	66	1032
Compass. Beam	W. B. Hunter	517,696	Apr. 3	472	114	67	91
Compass deviations. Apparatus for determining, correcting, or compensating	C. T. E. Clausen	517,029	Mar. 27	2165	513	66	1905
Compasses	M. Bradley	524,160	Aug. 7	334	79	68	722
Compensating device	C. Cade	525,258	Aug. 28	2222	541	68	1110
Compensator	W. Daves	518,488	Apr. 17	1820	451	67	365
Compo board	H. W. Mowry	513,710	Jan. 30	3920	820	66	758
Compo board	H. W. Mowry	516,572	Mar. 13	1388	330	66	1727
Composing-stick	J. A. Keyes	530,428	Dec. 4	611	152	69	1327
Composite material and manufacture of same	W. L. Carter and O. C. Hinman	516,999	Mar. 20	2098	496	66	1876
Composition-case	R. W. Nelson	528,106	Oct. 23	2411	584	69	498
Composition of matter	J. Matthews	521,382	June 12	1122	.....	67	1416
Composition of matter	W. M. Pope	521,177	June 12	757	.....	67	1347
Composition of matter	J. E. Summers	525,926	Sept. 11	1059	.....	68	1355
Composition of matter and making same	A. P. McKean	523,678	July 31	2616	.....	68	550
Compound engine	W. E. Good and G. B. Petsche	515,332	Feb. 27	2249	558	66	1320
Compound engine	J. Haug	516,329	Mar. 13	968	228	66	1650
Compound engine	A. J. L. Loretz	512,306	Jan. 9	952	233	66	193
Compound engine	J. Peebles	531,272	Dec. 13	2103	505	69	1627
Compound engine	E. Schwoerer	515,975	Mar. 6	390	90, 91	66	1525
Compression-joint	C. S. Bavier	519,805	May 15	1539	376	67	853
Compression-tank	G. T. Francis	527,678	Oct. 16	1645	397	69	333
Compressor or vacuum pump	E. N. Trump and J. E. Sweet	517,903	Apr. 10	796	{ 200 201 }	67	167
Concealed battery	L. C. Demain	525,537	Sept. 4	374	91	68	1220
Concentrates and apparatus for carrying out said method. Method of recovering	J. S. Dougherty	530,753	Dec. 11	1199	{ 292 293 }	69	1448
Concentrating-machine	I. Besly	519,316	May 8	686	168	67	684
Concentrator	J. Norbom	528,442	Oct. 30	2990	722	69	608
Concentrator	A. H. Kapp	520,939	June 5	347	84	67	1260
Concentrator	C. Wallace	522,172	June 26	2523	{ 605 606 }	67	1709
Concentric clamp	J. Riddell	523,009	July 17	1437	359	68	302
Concrete block with expanded metal reinforce-core	A. C. Storek	512,128	Jan. 2	662	158	66	127
Concrete construction	E. L. Ransome	516,113	Mar. 6	606	142	66	1566
Concrete-mixing mill	E. L. Ransome	512,663	Jan. 9	1547	371	66	305
Concrete-molding appliance	A. Rau	518,076	Apr. 10	1099	278	67	217
Concrete monuments. Method of and apparatus for making	N. C. Cameron	521,929	June 26	2094	503	67	1630
Concrete pipe. Molding	E. L. Ransome	515,016	Feb. 20	1709	429	66	1200

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Condenser	C. S. Cox	521,783	June 26	1842	439	67	1581
Condenser	T. M. Eynon	513,904	Jan. 30	3612	890	66	816
Condenser	S. W. Johnson	521,373	June 12	1110	262	67	1414
Condenser	E. H. Wardwell	521,838	June 26	1925	461	67	1597
Condenser	J. M. Westerlin	519,654	May 8	1293	309	67	793
Condenser and exhaust-pipe head	J. J. J. De Rycke	530,023	Nov. 27	2671	641	69	1186
Condenser and feed-water heater. Combined surface	J. B. McCurdy	518,421	Apr. 17	1709	425	67	345
Condenser. Exhaust-steam	J. A. Dillon	515,874	Mar. 6	223	52	66	1495
Condenser. Exhaust-steam	W. Webster	524,153	Aug. 7	321	76	68	721
Condenser. Steam-engine	S. S. Leach	516,210	Mar. 13	781	182	66	1614
Condenser. Surface	S. W. Johnson	521,469	June 19	1291	301	67	1463
Condenser. Surface	O. M. Row	514,338	Feb. 6	620	158	66	969
Condenser. Surface	F. M. Wheeler	526,208	Sept. 18	1544	362	68	1457
Condenser. Vapor	A. H. Dunkle	530,300	Dec. 4	395	100	69	1287
Condensing apparatus	J. Rourke	530,553	Dec. 11	860	212	69	1388
Condensing apparatus. Steam	W. Webster	525,931	Sept. 11	1064	242	68	1356
Conductor. Antiinductive	H. F. Chick	513,482	Jan. 30	2917	718	66	685
Conductor-hook	E. W. Mohroff and C. W. Dobelin	518,196	Apr. 10	1312	329	67	257
Conductor-support and insulator	D. N. Osyor	526,498	Sept. 25	2066	491	68	1568
Conductor-switch	G. H. Benjamin	526,850	Oct. 2	294	71, 72	69	56
Conduit-cleaning device	C. O. Ehler	524,434	Aug. 14	819	200	68	828
Conduit for electrical conductors. Underground	J. F. Cummings	524,977	Aug. 21	1718	421	68	1004
Conduit-sections. Apparatus for manufacturing	J. F. Cummings	528,290	Oct. 30	2733	660	69	563
Conduit. Subterranean	F. Lang	517,345	Mar. 27	2702	634	66	2010
Conduit. Underground	J. F. Cummings	528,291	Oct. 30	2734	660	69	564
Conduit. Underground	J. E. Edwards	527,597	Oct. 16	1515	368	69	309
Conduit. Underground	A. Segade and D. J. O'Regan	525,670	Sept. 4	586	140	68	1259
Confectionery into molds. Machine for depositing	L. Hirschfeld	530,417	Dec. 4	592	147	69	1323
Confectionery-machine	S. J. Hicks	531,033	Dec. 18	1663	395	69	1548
Confectionery-machine	T. Robertson	524,401	Aug. 14	772	189	68	819
Confectionery. Machine for molding	D. M. Holmes	528,722	Nov. 6	345	84	69	709
Confectionery. Machine for molding	D. M. Holmes	528,723	Nov. 6	347	84, 85	69	709
Confections. Machine for molding	F. W. Fix	518,059	Apr. 10	1073	271	67	212
Confections. Machine for molding	J. C. Walter	524,097	Aug. 7	214	49, 50	68	701
Conformator	A. S. Adler	526,449	Oct. 2	291	71	69	55
Continuous extractor	J. Naylor, Jr.	528,735	Nov. 6	366	89, 90	69	713
Continuous kiln	P. L. Youngren	517,637	Apr. 3	365	86, 87	67	71
Controller-handle	H. Mittelsdorf	531,052	Dec. 18	1701	404	69	1555
Controller. Series-parallel	E. D. Priest	516,834	Mar. 20	1825	432	66	1824
Converter	C. M. Allen	519,219	May 1	508	123	67	636
Converter	C. M. Allen	519,220	May 1	509	123	67	636
Converter	C. W. Stickney	517,939	Apr. 10	852	215	67	178
Converter	A. Tropenas	511,919	Jan. 2	327	77	66	63
Converter for smelting ores	C. M. Allen	519,218	May 1	507	122	67	635
Converter. Multiphase	H. O. C. E. Wagemann	526,063	Sept. 18	1286	298	68	1410
Convertible chair	L. A. Chichester	517,946	Apr. 10	865	218	67	180
Convertible chair	C. N. Woson and D. W. Palmer	520,284	May 22	2361	573	67	1019
Conveyer	J. Bulger	529,159	Nov. 13	1138	275	69	874
Conveyer	J. H. Franklin	516,702	Mar. 20	1613	324	66	1785
Conveyer	R. L. Hassell	513,785	Jan. 30	3424	845	66	778
Conveyer	C. McMahon and A. M. Southard	513,952	Jan. 30	3683	906	66	830
Conveyer	K. Michalouk	523,674	July 31	2004	649	68	549
Conveyer	C. W. Miller	526,405	Sept. 25	1915	455	68	1541
Conveyer	L. Patterson	513,276	Jan. 23	2581	624	66	587
Conveyer	F. G. and A. C. Sargent	527,723	Oct. 16	1718	414	69	347
Conveyer	C. S. Schenck	524,842	Aug. 21	1503	367	68	966
Conveyer-carriage	G. H. Hulett	516,864	Mar. 20	1875	443	66	1835
Conveyer. Screw	F. Prinz	523,237	July 17	1841	463	68	377
Conveyer-trough	J. M. Dodge	512,015	Jan. 2	478	114	66	92
Conveying and automatically delivering small articles. Apparatus for	A. Müller	520,006	May 15	1860	454	67	912
Conveying apparatus	T. S. Miller and H. N. Covell	512,446	Jan. 9	1209	292	66	240
Conveying apparatus. Traveling-chain	A. L. Radford	522,854	July 10	1162	290	68	235
Conveying machinery	D. C. and T. W. Saeman	523,083	July 17	1547	328	68	324
Conveying material	F. E. Duckham	528,417	Oct. 30	2948	713	69	601
Cooker	M. Finklestein	520,305	May 22	2392	581	67	1025
Cooker and baker. Combined steam	C. Messick	513,405	Jan. 23	2774	678	66	623
Cooker. Jelly	L. G. Hughes	522,731	July 10	966	241	68	199
Cooker. Steam	W. E. Beveridge	522,399	July 3	392	101	68	77
Cooker. Steam	J. E. Hill	525,147	Aug. 28	2051	500	68	1080
Cooker. Steam	J. A. Kendall	515,880	Mar. 6	230	54	66	1496
Cooker. Steam	J. F. Tallant	512,339	Jan. 9	1005	246	66	202
Cooking and canning machine. Vegetable	F. A. Odin	528,680	Nov. 6	287	70	69	698
Cooking apparatus	J. Plenske	515,360	Feb. 27	2296	569	66	1328
Cooking, broiling, baking, &c. Apparatus for	M. E. Jehu	514,079	Feb. 6	161	38	66	885
Cooking corn, &c., in cans. Apparatus for	H. K. Stickney	531,479	Dec. 25	2481	591	69	1715
Cooking device	G. Kelsey	519,580	May 8	1167	281	67	772
Cooking device for fruit-canning	F. M. Anderson	522,748	July 10	1008	249	68	206
Cooking device. Steam	G. Yinger	520,470	May 29	2668	645	67	1092
Cooking food over lamp-chimneys. Utensil for	A. N. Ayres	517,561	Apr. 3	238	55	67	47
Cooking machine. Corn	F. W. Smith	512,232	Jan. 2	830	201	66	157
Cooking utensil	S. M. Hoagland	523,524	July 24	2353	591	68	496
Cooking utensil	R. M. Shaffer	525,968	Sept. 11	1133	258	68	1370
Cooking utensil	J. B. Skeyen	524,616	Aug. 14	1119	275	68	884

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. gr.	Vol.	Page.
Cooking utensil	T. Wetscherek	515,565	Feb. 27	2620	651	66	1390
Cooking-vessel	J. F. Pack	523,643	July 24	2538	637	68	521
Cooking-vessel	J. H. Wilson	527,471	Oct. 16	1314	321	69	275
Cooking-vessel. Combination	J. Zinn	515,457	Feb. 27	2451	607	66	1357
Cooking-vessels. Device for carrying off odors from.	B. F. Fowler	512,650	Jan. 9	1531	367	66	302
Cooler:							
<i>See</i> Beer-cooler. Milk-cooler.							
Beverage-cooler. Mold-cooler.							
Cream-cooler. Water-cooler.							
Lard-cooler. Wine-cooler.							
Liquid-cooler. Wort-cooler.							
Cooler	W. Linter	521,119	June 5	652	153	67	1314
Cooler for cinder-notches	S. R. Fellows	518,495	Apr. 17	1830	454	67	367
Cooling apparatus	C. Kellgren	516,206	Mar. 13	774	181	66	1613
Cooling or condensing apparatus	G. A. Barnard	522,549	July 3	633	161	68	124
Coop	T. Marr and J. Graham	514,949	Feb. 20	1609	404	66	1190
Coop and hawk-trap. Combined chicken.	W. S. Irwin	521,266	June 12	912	215	67	1375
Coop. Folding chicken.	L. Matthews	524,259	Aug. 7	489	113	68	750
Coop. Folding chicken.	C. B. Proctor	527,807	Oct. 23	1860	447	69	390
Coop. Folding poultry.	I. T. Carter	521,781	June 26	1841	438	67	1560
Coop. Metal folding chicken.	I. Zimmermann	529,230	Nov. 13	1267	305	69	895
Coop. Poultry shipping.	J. A. Gilliland	529,259	Nov. 13	1324	318	69	906
Cop-tube	T. Henry, Jr.	529,445	Nov. 20	1672	398	69	990
Coping	J. D. Davis	522,363	July 3	321	82	68	63
Copper from its ores. Extracting	G. W. Goetz	519,111	May 1	291	.....	67	591
Copper, &c. Method of and apparatus for the electrodeposition and refining of	L. S. Randolph	514,275	Feb. 6	513	127	66	950
Copper. Process of and furnace for smelting	A. O. Vicuña	525,773	Sept. 11	784	181	69	1307
Copy books. Regulating device for moistening leaves of press.	O. K. Truitt	516,953	Mar. 20	2027	479	66	1863
Copy-guide	W. Duchemin	519,762	May 15	1461	354	67	838
Copy-holder	J. E. Bucklin	521,633	June 19	1376	368	67	1514
Copy-holder	J. E. Bucklin	526,990	Oct. 2	523	128	69	98
Copy-holder	E. Kelsey	514,194	Feb. 6	364	87	66	922
Copy-holder	R. H. Ross	518,652	Apr. 24	2101	524 } 525 }	67	429
Copy-holder	J. Rush	523,906	July 31	3014	750	68	624
Copy-holder	R. Sheldon	519,048	May 1	177	42	67	570
Copying apparatus. Antographic	U. M. White and C. E. Le Count	513,693	Jan. 30	3245	809	66	752
Copying apparatus. Multiple	W. M. Williams	529,824	Nov. 27	2312	551	69	1117
Copying-book	A. B. Turner and H. A. McMullen	529,977	Nov. 27	2571	620	69	1164
Copying. Damping apparatus for press.	W. S. Mendenhall	523,642	July 24	2537	637	68	520
Copying manuscripts, &c. Device for	J. W. Cleland	518,566	Apr. 24	1994	493	67	410
Copying-pad	L. Bailey	516,463	Mar. 13	1203	289	66	1693
Copying-press	J. H. Smith	512,668	Jan. 9	1555	373	66	306
Copying press. Letter.	J. H. Taylor	514,204	Feb. 6	389	93	66	927
Cord. Flexible	R. Kelso	527,795	Oct. 23	1847	444	69	388
Cordage-machines. Adjustable take-up for	C. N. Brown	514,615	Feb. 13	1071	267	66	1072
Core-attracting solenoid	W. R. Michl	521,269	June 12	916	217	67	1376
Core-barrel. Collapsible	J. W. Holmes	530,108	Dec. 4	56	15	69	1235
Core-barrels. Apparatus for ejecting	H. B. A. Keiser	512,973	Jan. 16	2107	500 } 501 }	66	424
Core-box	G. A. Lambert	517,387	Mar. 27	2808	655	66	2030
Core. Casting.	O. C. Little	519,538	May 8	1097	263	67	759
Core for casting hollow cylinders	F. Gandy	526,029	Sept. 18	1226	283	68	1400
Core-making machine	E. Grant	513,998	Feb. 6	40	9	66	862
Core-making machine	C. R. Schmidt	519,006	May 1	109	26	27	556
Cores. Adjustable chaplet-holder for supporting and centering	F. L. Badger	515,311	Feb. 20	2201	546	66	1299
Cores for casting. Apparatus for manufacture of	W. H. Drake	526,101	Sept. 18	1354	315	68	1422
Cores. Machine for making founders'	E. Grant	512,289	Jan. 9	928	225 } 226 }	66	188
Cork-board. Method of and apparatus for manufacturing	T. A. Weber	524,746	Aug. 21	1334	326	68	935
Cork-board. Method of and apparatus for manufacturing	T. A. Weber	524,747	Aug. 21	1336	327	68	936
Cork-compressor	S. Wile and H. La Casse	520,625	May 29	2920	706 } 707 }	67	1139
Cork-cutting machine	F. C. Truslow	520,744	May 29	3129	757 } 758 }	67	1177
Cork-cutting machinery	J. Lowman	527,865	Oct. 23	1969	473	69	408
Cork-extractor	H. H. Bliss	515,646	Feb. 27	2745	684	66	1415
Cork-feeder	S. Wile and H. La Casse	520,550	May 29	2800	676 } 677 }	67	1116
Cork-finishing machinery	J. Lowman	523,046	July 17	1500	373	68	315
Cork-puller	E. Walker	515,412	Feb. 27	2379	590	66	1344
Cork-puller	M. L. White	524,035	Aug. 7	111	24	68	682
Cork-puller. Automatic.	E. Walker	515,411	Feb. 27	2377	590	66	1343
Cork-shell-cutting machine	A. L. Mitchell	520,605	May 29	2894	699	67	1134
Corks. Machine for making hollow	F. C. Truslow	523,297	July 17	1945	489	68	396
Corks. Machinery for finishing, polishing, or surfacing	J. E. Howard	530,845	Dec. 11	1339	321	69	1474
Corking-machine	G. Norton	527,021	Oct. 2	574	139	69	108
Corkscrew	E. Becker	518,018	Apr. 10	1004	252	67	202
Corkscrew	T. Crellin	515,658	Feb. 27	2768	689	66	1420
Corkscrew	F. H. La Pierre	518,005	Apr. 10	987	246	67	199
Corkscrew	C. Puddefoot	522,672	July 10	848	211	68	180
Corn-cribbing machine	L. M. Millen	517,355	Mar. 27	2717	638	66	2013
Corn-cutter	W. R. Clark	513,087	Jan. 23	2264	546 } 547 }	66	523
Corn cutter and dropper	J. Stewart, Jr.	528,041	Oct. 23	2297	553	69	469
Corn cutter and shocker	D. O. Fosgate	513,495	Jan. 30	2942	724 } 725 }	66	689
Corn cutter. Green.	S. E. Morral	516,399	Mar. 13	1093	260	66	1671

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Corn cutting and shocking machine	H. McPherson	512,314	Jan. 9	964	{ 235 236 }	66	195
Corn cutting and shocking machine	A. B. Robinson	518,551	Apr. 17	1927	476	67	384
Corn-cutting device	C. D. Courtwright and C. A. Powell	513,380	Jan. 23	2736	665	66	616
Corn-cutting machine	M. L. Hydon	517,143	Mar. 27	2364	558	66	1944
Corn-husker	F. Crook	512,367	Jan. 9	1052	257	66	210
Corn-husker	H. H. Perkins	513,721	Jan. 30	3338	824	66	762
Corn-husker	H. H. Perkins	513,722	Jan. 30	3340	824	66	762
Corn-husker	H. H. Perkins	513,723	Jan. 30	3341	825	66	762
Corn-husker	H. H. Perkins	513,724	Jan. 30	3343	825	66	762
Corn-husker	J. P. Schurkens	519,929	May 15	1728	424	67	858
Corn husker. Green	W. F. Dana	512,433	Jan. 9	1177	286	66	235
Corn-husking machine	W. H. Webb	527,226	Oct. 9	894	217	69	182
Corn-husking machine	M. Young	529,094	Nov. 13	1034	249	69	854
Corn from cobs. Machine for cutting	W. S. Plummer	523,175	July 17	1739	436	68	358
Corn-popper	L. R. Hiffner	519,404	May 8	853	{ 206 207 }	67	715
Corn-popping apparatus	A. Lafrance	525,347	Sept. 4	40	10	68	1158
Corn-popping machine	W. B. Donathen	518,664	Apr. 24	2125	532	67	433
Corn separator, husker, and fodder-slitter	C. H. Taylor	518,358	Apr. 17	1604	397	67	326
Corn-sheller	G. W. Packer	522,669	July 10	842	210	68	179
Corn sheller and grater. Convertible	W. E. Crockett	515,074	Feb. 20	1804	455	66	1224
Corn-sheller separator	J. Q. Adams	531,292	Dec. 25	2146	514	69	1651
Corn shelling and grinding machine. Combined	L. Kniffen	514,656	Feb. 13	1134	283	66	1085
Corn-shock loader	H. McPherson	528,734	Nov. 6	365	89	69	713
Corn-shocks. Device for loading	G. W. Collins	518,487	Apr. 17	1819	450	67	365
Corn-shocking device	A. N. Russell	513,734	Jan. 30	3337	828	66	765
Corn-shucker	F. A. Merritt	513,588	Jan. 30	3106	764	66	720
Corn-silker	R. P. Scott	524,223	Aug. 7	435	102	68	741
Cornstalk-shocking mechanism	J. W. Ogle	521,088	June 5	600	142	67	1305
Corn-stubble cutter	S. L. Mason	520,068	May 22	1973	483	67	947
Corner-bracket.	A. Fontaine	515,204	Feb. 20	2014	502	66	1263
Corner-brace.	C. R. McGahey	528,679	Nov. 6	226	69	69	698
Corner-strip	F. Kees	529,500	Nov. 20	1774	423	69	1007
Cornet-mouthpiece	W. H. Talmadge	513,346	Jan. 23	2678	649	66	605
Cornice and curtain-support. Combined window	J. M. Hoffin	530,270	Dec. 4	341	84	69	1278
Corpses. Apparatus for the preservation of	V. E. Cohe	515,994	Mar. 6	426	98	66	1531
Corset	J. C. Andrews	528,064	Oct. 23	2330	562	69	475
Corset	J. C. Andrews	528,065	Oct. 23	2332	563	69	475
Corset	B. Epperly	515,824	Mar. 6	154	37	66	1482
Corset	L. H. Foy	523,888	July 31	2990	744	68	619
Corset	T. S. Gilbert	531,179	Dec. 18	1934	460	69	1598
Corset	J. Lang	516,767	Mar. 20	1721	405	66	1804
Corset	C. A. McGee	512,838	Jan. 16	1871	443	66	321
Corset. Abdominal	T. S. Gilbert	527,966	Oct. 23	2162	520	69	445
Corset bnsk-stay	H. G. Stiebel, Jr.	524,874	Aug. 21	1546	378	68	973
Corset-stays. Machine for making	H. C. Cook	514,213	Feb. 6	415	{ 100 101 }	66	930
Corset-steel	C. Scholl	514,242	Feb. 6	472	115	66	941
Corset-stiffener	J. Wolff	517,132	Mar. 27	2349	554	66	1940
Cot	J. H. Looney	526,866	Oct. 2	328	81	69	62
Cot and wardrobe. Combined	S. C. Hopkins	517,458	Apr. 3	75	16	67	17
Cot. Chair	C. C. McPhee and I. E. Brock	523,908	July 31	3011	749	68	623
Cot. Folding	F. C. Hannabss	514,928	Feb. 20	1581	397	66	1184
Cot. Folding	T. Sands	522,163	June 26	2539	610	67	1712
Cotton. Apparatus for the treatment of	F. Zedler	520,285	May 22	2364	574	67	1019
Cotton-band cutter	L. S. Gardner, G. Cook, and A. O. Tannenber	529,258	Nov. 13	1323	318	69	905
Cotton. Beater for use in machines for opening	J. C. Potter	524,695	Aug. 14	1245	307	68	906
Cotton-chopper	W. H. J. Goodwin	517,570	Apr. 3	253	59	67	49
Cotton-chopper	J. J. Green	528,159	Oct. 30	2501	605	69	521
Cotton-chopper	G. W. Murray	520,888	June 5	247	58	67	1242
Cotton-chopper	A. E. Schevey	530,724	Dec. 11	1153	280	69	1439
Cotton chopper and cultivator. Combined	H. C. Bosley and J. H. Organ	513,074	Jan. 23	2249	{ 542 543 }	66	520
Cotton chopper and cultivator. Combined	R. J. Brown and J. E. Register	529,061	Nov. 13	973	230	69	843
Cotton-cleaner	H. Rembert	530,458	Dec. 4	652	{ 162 163 }	69	1335
Cotton. Combined elevator, cleaner, distributor, and feeder for seed	T. E. Littlefield	517,979	Apr. 10	930	233	67	190
Cotton. Combined elevator, cleaner, distributor, and feeder for seed	T. E. Littlefield	517,980	Apr. 10	932	{ 233 234 }	67	190
Cotton-compress	C. L. and W. T. Bessonette	530,001	Nov. 27	2631	{ 632 633 }	69	1178
Cotton conveyer. Pneumatic seed	F. C. Gammons	516,733	Mar. 20	1673	{ 396 397 }	66	1795
Cotton-elevating apparatus. Seed	F. Garraux	521,159	June 12	724	171	67	1341
Cotton elevator and distributor	W. E. Moffitt and J. L. Williams	528,177	Oct. 30	2532	614	69	527
Cotton. Feed-regulating device for machines for opening and preparing	J. C. Potter	529,567	Nov. 20	1891	{ 449 450 }	69	1029
Cotton. Feeding mechanism for machinery for opening and preparing	J. C. Potter	524,650	Aug. 14	1169	288	68	893
Cotton-gin	D. Haynes	524,170	Aug. 7	349	82	68	725
Cotton-gin breast	A. Schulze	517,937	Apr. 10	850	214	67	178
Cotton-gin condenser	G. L. Rollins	513,732	Jan. 30	3355	827	66	765
Cotton-gin. Roller	O. F. Goodwin	530,941	Dec. 18	1502	356	69	1519
Cotton-gin. Roller	J. Stapleton	529,425	Nov. 20	1629	387	69	983
Cotton-gin. Roller	J. Stapleton and R. J. Ray	514,629	Feb. 13	1094	{ 272 273 }	66	1077
Cotton-gins. Combined beater and carder for	W. P. Kopfler	512,445	Jau. 9	1208	292	66	240
Cotton-handling apparatus. Governor for seed	A. Schulze	521,676	June 19	1642	385	67	1527
Cotton. Machine for handling and cleaning seed	W. E. Elam	518,315	Apr. 17	1513	{ 378 379 }	67	309
Cotton-opener	A. Kirschner	531,193	Dec. 18	1956	465	69	1602

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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. 5	Vol.	Page.
Cotton-opener and stopping mechanism therefor.....	W. Richardson and J. Fidler.....	520,832	June 5	140	30, 31	67	1223
Cotton-opener dust-trunk.....	T. R. Marsden.....	519,457	May 8	931	225	67	730
Cotton-openers, &c. Dust or cleaning trunk for.....	J. C. Potter.....	526,326	Sept. 18	1743	412	68	1497
Cotton-openers, &c. Evening mechanism for.....	J. C. Potter.....	520,334	May 22	2447	594	67	1035
Cotton-openers. Evening mechanism for.....	J. C. Potter.....	524,730	Aug. 21	1309	320	68	931
Cotton-openers. Grid for.....	H. S. Houghton.....	530,271	Dec. 4	343	84	69	1278
Cotton-opening machines. Feeding mechanism for.....	J. C. Potter.....	528,389	Oct. 30	2899	702	69	592
Cotton-picker.....	A. Levedahl.....	525,911	Sept. 11	1033	234	68	1351
Cotton-picking fingers. Driving mechanism for.....	A. Levedahl.....	526,153	Sept. 18	1451	339	68	1440
Cotton-picking machine.....	G. C. Phillips.....	530,451	Dec. 4	644	{ 160 161 }	69	1333
Cotton-press.....	J. A. Bachman.....	512,790	Jan. 16	1788	425	66	365
Cotton-press.....	W. T. Bessonette. (Reissue).....	11,422	June 19	1830	436	67	1562
Cotton-press.....	W. S. Liddell.....	522,220	July 3	79	17, 18	68	16
Cotton-press.....	F. L. White.....	519,054	May 1	186	44	67	572
Cotton-press.....	S. J. Williams.....	518,709	Apr. 24	2207	551	67	448
Cotton-presses. Combined belt-shifter and brake for.....	T. M. Wallace.....	530,978	Dec. 18	1570	372	69	1530
Cotton-sack carrier.....	C. L. Johns.....	526,395	Sept. 25	1881	447	68	1535
Cotton-separator and distributor. Combined.....	H. A. Paine.....	525,422	Sept. 4	183	48	68	1186
Cotton-stalk-breaking machine.....	Y. Grimland and J. J. Ringness.....	523,159	June 26	2503	601	67	1705
Couch, bed, and bath-tub. Combined.....	B. S. Maben.....	531,202	Dec. 18	1975	469	69	1604
Couch. Folding.....	N. Shulerud.....	517,891	Apr. 10	774	193	67	164
Couch. Swinging.....	J. Keller.....	518,547	Apr. 17	1922	475	67	382
Counterbalancing momentum of reciprocating elements. Means for.....	M. N. Forney.....	523,294	Oct. 30	2738	{ 661 662 }	69	564
Counters, bars, &c. Combined arm-rest and guard for.....	W. C. Huss. (Reissue).....	11,414	Apr. 17	1981	490	67	393
Counting grape-cuttings, grape-roots, &c. Machine for.....	F. M. Kidder.....	526,493	Sept. 25	2060	490	68	1567
Counting-machine.....	W. H. Clark.....	516,984	Mar. 20	2074	{ 490 491 }	66	1872
Counting-machine.....	S. Heim.....	530,224	Dec. 4	262	65	69	1263
Coupling.....							
See Air-brake coupling. Hame-coupling.							
Bathing-apparatus coupling. Hose-coupling.							
Car-coupling. Insulated-pipe coupling.							
Car and air-brake coupling. Locomotive-coupling.							
Car and pipe coupling. Pipe-coupling.							
Car and pipe coupling. Pole-coupling.							
Car and train-pipe coupling. Radiator-coupling.							
Chain-coupling. Rod or pipe coupling.							
Clutch-coupling. Rope-coupling.							
Electric wire coupling. Sewer-pipe coupling.							
Flagstaff-coupling. Shaft-coupling.							
Gas and electric coupling. Thill-coupling.							
Water-closet coupling. Wire-coupling.							
Coupling.....	S. A. Stahley.....	531,071	Dec. 18	1727	411	69	1560
Coupling device.....	J. T. Hostler.....	515,337	Feb. 27	2258	559	66	1321
Coupling-link.....	W. H. Casey.....	529,896	Nov. 27	2428	583	69	1139
Coupling-link.....	A. Lamplough.....	526,627	Sept. 25	2261	541	68	1605
Cover. Dinner-pail.....	H. E. Dunham.....	519,809	May 15	1544	377	67	854
Cover for butter-receptacles, &c.....	H. C. Carter.....	521,634	June 19	1577	368	67	1514
Cover for cans, &c.....	G. Banmann.....	512,090	Jan. 2	604	145	66	116
Cover for cooking utensils.....	J. Johnston.....	526,712	Oct. 2	72	19	69	16
Cover for fruit-jars or other vessels.....	C. N. Brady.....	529,239	Nov. 13	1285	308	69	899
Cover for frying-pans, &c.....	M. E. Radick.....	517,708	Apr. 3	497	119	67	96
Cover for jars, &c.....	G. B. Ritter.....	513,731	Jan. 30	3354	827	66	764
Cover. Milk-jar.....	C. N. Wilcox.....	521,841	June 26	1929	463	67	1598
Cover, strainer, and steam-guard. Combined kettle-cowl.....	J. M. Benson and J. E. Berslin.....	531,300	Dec. 25	2162	517	69	1654
Cracker and making same.....	C. W. J. Martens.....	520,368	May 22	2504	606	67	1047
Cracker-cutter.....	M. B. Manwaring.....	518,891	Apr. 24	635	.....	67	504
Cracker-machines, &c. Device for removing waste from sheets of dough in.....	L. A. Rockwell and W. A. Hull.....	519,293	May 1	635	155	67	660
Cradle.....	J. C. Beisang.....	530,499	Dec. 11	751	{ 184 185 }	69	1369
Cradle.....	W. H. Meekins.....	517,226	Mar. 27	2602	610	66	1989
Cradle.....	W. J. Shortill.....	530,858	Dec. 11	1362	325	69	1478
Cradle.....	M. C. Sorrell.....	529,816	Nov. 27	2302	548	69	1115
Cradle. Child's.....	W. E. Phillips.....	528,026	Oct. 23	2276	549	69	464
Cradle. Child's swinging.....	W. Dewey.....	522,783	July 10	1063	262	68	216
Cradle or crib. Extensible.....	C. B. Adriance.....	514,401	Feb. 6	710	{ 179 180 }	66	987
Cranberry-gatherer.....	J. M. and S. B. Moody.....	522,379	July 3	349	90	68	69
Cranberry-gatherer.....	J. M. and S. B. Moody.....	527,020	Oct. 2	573	139	69	108
Cranberry-picker.....	J. M. and S. B. Moody.....	522,942	July 10	1312	327	68	264
Crane.....	A. Grafton.....	523,705	July 31	2666	661	68	559
Crane.....	F. B. Griffith.....	524,780	Aug. 21	1390	{ 338 339 340 }	68	946
Crane.....	A. J. Shaw.....	522,616	Nov. 6	165	40	69	676
Crane. Charging.....	T. R., Sr., and W. H. Morgan.....	520,488	May 29	2701	654	67	1098
Crane. Electric.....	E. Hopkinson.....	522,835	July 10	1141	283	68	221
Crane for manipulating tongs.....	J. F. A. Smith and J. M. Bryant.....	513,658	Jan. 30	3232	794	66	742
Crane. Hoisting.....	W. S. Black.....	515,276	Feb. 20	2136	531	66	1287
Crane. Hydraulic.....	F. V. Matton.....	517,008	Mar. 20	2112	500	66	1879
Crane. Hydraulic.....	W. L. Scarfe.....	523,445	July 24	2197	{ 553 554 }	68	458
Crane. Hydraulic.....	G. W. Zastrow.....	514,251	Feb. 6	481	118	66	943
Crane or derrick.....	J. N. Sturm.....	524,619	Aug. 14	1124	{ 276 277 }	68	885
Crane. Overhead traveling.....	J. R. Morgan.....	522,913	July 10	1262	312	68	254

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Crane. Overhead traveling.....	G. A. True.....	517,078	Mar. 27	2260	534	66	1923
Crane. Traveling.....	W. M. Brooke.....	528,248	Oct. 30	2665	642	69	551
Crane. Traveling.....	G. W. King.....	528,781	Nov. 6	457	112 113	69	730
Crank.....	C. Tyler.....	516,137	Mar. 6	647	151	66	1574
Crank-arm fastening.....	E. G. Parkhurst.....	512,745	Jan. 16	1659	404	66	346
Crank. Extension.....	T. F. Bourne.....	524,522	Aug. 14	961	236	68	854
Crank-pin.....	F. F. Landis.....	512,552	Jan. 9	1370	331	66	271
Crank. Variable.....	C. H. Davids.....	520,157	May 22	2147	523	67	979
Crate.....	H. Allen.....	519,222	May 1	511	124	67	636
Crate. Berry.....	P. A. and R. S. Wimbrow and H. P. Dale.....	517,713	Apr. 3	506	121	67	98
Crate-cover and fastener.....	C. E. and J. F. Weaver.....	513,353	Jan. 23	2693	653	66	608
Crate cover, &c. Shipping.....	M. Backstrom.....	526,004	Sept. 11	1187	271	68	1380
Crate. Folding.....	A. W. Coats.....	521,640	June 19	1585	371	67	1516
Crate. Folding.....	H. H. Cummer.....	515,196	Feb. 20	1996	497	66	1260
Crate. Folding.....	W. H. H. Mulford.....	523,366	July 24	2063	518 519	68	434
Crate. Knockdown.....	S. F. Sherman.....	517,413	Mar. 27	2854	668	66	2039
Crate. Shipping.....	F. T. Howell.....	515,226	Feb. 20	2054	511	66	1270
Crate. Shipping.....	I. E. Marshall.....	512,731	Jan. 16	1654	397	66	340
Crate. Shipping.....	J. Z. Taylor.....	522,538	July 3	614	157	68	121
Crate. Shipping.....	G. W. Worden.....	521,354	June 12	1082	254	67	1408
Cravat.....	A. Hajos.....	529,732	Nov. 27	2152	513 514	69	1086
Cream-cooler and soda-fountain.....	F. W. Merrill.....	513,127	Jan. 23	2334	562	66	538
Cream-separator. Centrifugal.....	G. M. Andersson.....	522,280	July 3	188	51	68	39
Cream-separator. Centrifugal.....	G. M. Andersson.....	522,281	July 3	189	51	68	39
Cream-separator. Centrifugal.....	W. C. Hartmann.....	528,941	Nov. 13	785	183 184	69	809
Cream-separator. Centrifugal.....	A. Malmros. (Reissue).....	11,440	Sept. 4	630	148	68	1267
Creamer. Centrifugal.....	D. J. Davis.....	511,936	Jan. 2	356	33	66	68
Creamer. Centrifugal.....	D. J. Davis.....	523,885	July 31	2987	743	68	619
Creamer. Centrifugal.....	J. Mélotte.....	512,203	Jan. 2	786	191	66	149
Creamer. Centrifugal.....	J. Mélotte and W. Reuther.....	521,722	June 19	1721	407	67	1543
Creamer. Centrifugal.....	F. O. Nilsson.....	515,053	Feb. 20	1774	447	66	1218
Creamer. Centrifugal.....	O. Ohlsson.....	519,070	May 1	225	53	67	579
Creamer. Centrifugal.....	O. Ohlsson.....	530,447	Dec. 4	638	159	69	1332
Creamery apparatus.....	G. T. McLauthlin.....	514,021	Feb. 6	71	17, 18	66	867
Cremation-furnace.....	S. W. Dixon.....	517,816	Apr. 3	665	166	67	129
Crematory for burning garbage, &c.....	J. E. McKay.....	530,623	Dec. 11	977	240	69	1409
Crematory furnace.....	J. Tamas and E. Nemes.....	512,131	Jan. 2	666	159	66	128
Crevasse-closer.....	M. A. Laska.....	526,976	Oct. 2	500	123	69	94
Crevasse. Apparatus for holding ends of and closing.....	W. Baptist.....	529,580	Nov. 20	1912	455 456	69	1033
Crib. Folding.....	F. J. Ebert.....	523,337	July 24	2022	508	68	427
Crib. Folding.....	J. S. Mackie.....	526,081	Sept. 18	1321	306	68	1416
Crib. Folding.....	S. C. Neal.....	520,699	May 29	3066	742	67	1165
Crib or bed. Child's.....	A. W. Crossley.....	518,180	Apr. 10	1269	320	67	247
Cribs or bedsteads. Support for canopy-rods in metallic.....	W. T. Mercereau.....	530,953	Dec. 18	1523	361	69	1523
Crimping-machine.....	S. W. Jamison.....	518,249	Apr. 17	1405	352	67	290
Crimping-machine.....	C. Wagner.....	520,097	May 22	2021	493	67	957
Cross-head.....	F. P. Landis.....	512,554	Jan. 9	1372	332	66	271
Cross over tip. Automatic.....	J. M. Phillips, J. J. Fleming, and F. Browning.....	524,211	Aug. 7	419	99 100	68	738
Cross-tie. Metallic.....	A. G. Budington.....	517,915	Apr. 10	818	205	67	172
Crupper-fastener.....	C. E. Barker.....	526,098	Sept. 18	1349	314	68	1422
Crusher:							
See Clod-crusher. Rock or ore crusher.							
Gyrating crusher. Stone-crusher.							
Ore-crusher. Stone and ore crusher.							
Rock-crusher.							
Crutch.....	G. B. Main.....	529,659	Nov. 20	2031	487	69	1055
Crusher.....	W. W. Sly.....	514,097	Feb. 6	192	44	66	890
Crushing and grinding machine.....	W. H. Howland.....	523,938	July 31	3038	768 769	68	638
Crushing or grinding mill.....	H. J. R. Pamphilon.....	513,197	Jan. 23	2443	590	66	559
Crushing or grinding mill.....	R. E. Shill.....	523,085	July 17	1551	389	68	325
Crystallization of saccharine or other solutions.....	L. Wulff.....	528,497	Oct. 30	3089	749	69	627
Cuff-blank-turning machine.....	G. E. Norris.....	520,535	May 29	2775	671	67	1112
Cuff-fastener.....	J. V. Washburne.....	517,084	Mar. 27	2271	536	66	1925
Cuff-holder.....	W. W. Anderson.....	520,552	May 29	2807	677	67	1118
Cuff-holder.....	J. J. Duket.....	525,193	Aug. 28	2131	519	68	1093
Cuff-holder.....	W. M. Howe.....	527,062	Oct. 9	637	154	69	134
Cuff-holder.....	W. S. Shaw.....	526,821	Oct. 2	249	61	69	47
Culinary utensils. Making.....	E. C. Cole.....	513,762	Jan. 30	3393	837	66	772
Culinary vessel.....	A. W. Obermann.....	528,382	Oct. 30	2890	700	69	591
Culinary vessel.....	M. S. Tracy.....	517,673	Apr. 3	440	106	67	84
Culinary vessel.....	D. C. Wood.....	525,933	Sept. 11	1067	242	68	1357
Culinary-vessel handle.....	F. J. Morgan.....	515,351	Feb. 27	2281	565	66	1326
Cultivator.....	M. W. Beard.....	522,957	July 17	1352	335 336	68	287
Cultivator.....	T. Belair.....	531,252	Dec. 18	2068	495	69	1620
Cultivator.....	J. V. Brady.....	530,879	Dec. 11	1396	332	69	1485
Cultivator.....	H. M. Burdick.....	525,838	Sept. 11	911	203 204	68	1329
Cultivator.....	A. W. Butt.....	530,075	Nov. 27	2771	664 665	69	1203
Cultivator.....	G. M. Clark.....	514,210	Feb. 6	408	98, 99	66	929
Cultivator.....	W. W. Cox.....	524,935	Aug. 21	1655	405	68	992
Cultivator.....	L. Danos and A. Haydel.....	531,514	Dec. 25	2541	608	69	1726
Cultivator.....	N. W. Falor.....	521,340	June 12	1062	248	67	1404
Cultivator.....	A. Hamilton and W. E. Morrison.....	529,381	Nov. 20	1542	369	69	968

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Cultivator	W. Hewitt	513,185	Jan. 23	2423	{ 584 585 }	{ 66	556
Cultivator	W. H. Holsclaw	530,844	Dec. 11	1337	321	69	1474
Cultivator	W. C. Johnson	512,708	Jan. 16	1623	370	66	334
Cultivator	H. W. Leavitt	515,592	Feb. 27	2664	661	66	1399
Cultivator	A. Lindgren	531,200	Dec. 18	1971	{ 467 468 }	{ 69	1604
Cultivator	E. R. Maine	517,227	Mar. 27	2509	589	66	1971
Cultivator	C. Maul	529,457	Nov. 20	1697	{ 405 406 }	{ 69	995
Cultivator	N. Maxfield, R. F. Griffin, and H. A. Speer	523,080	July 17	1545	387	68	323
Cultivator	T. J. McBride	517,962	Apr. 10	908	227	67	186
Cultivator	O. L. Neisler	517,229	Mar. 27	2610	612	66	1991
Cultivator	J. W. Norton	517,231	Mar. 27	2515	590	66	1973
Cultivator	J. F. Packer	529,135	Nov. 13	1096	{ 264 265 }	{ 69	866
Cultivator	J. F. Packer	529,136	Nov. 13	1098	{ 265 266 }	{ 69	867
Cultivator	J. Porteous	524,561	Aug. 14	1028	253	68	866
Cultivator	B. M. Rolph	531,566	Dec. 25	2625	629	69	1743
Cultivator	H. D. Sabin	515,843	Mar. 6	181	43	66	1487
Cultivator	J. Schauman	521,272	June 12	919	218	67	1377
Cultivator	J. L. Staley	512,669	Jan. 9	1556	{ 373 374 }	{ 66	306
Cultivator	J. R. Suter	528,825	Nov. 6	550	131	69	746
Cultivator	C. W. Warner and G. A. Crane	531,605	Dec. 25	2692	{ 645 646 }	{ 69	1756
Cultivator	G. L. Whiting	518,683	Apr. 24	2157	539	67	440
Cultivator and drill. Combined drag-bar	W. Hull	517,925	Apr. 10	835	210	67	175
Cultivator and harrow. Combined disk	H. L. Whittredge	527,519	Oct. 16	1388	337	69	286
Cultivator and marker	G. W. Murray	517,961	Apr. 10	906	{ 226 227 }	{ 67	186
Cultivator and planter	J. E. Miller	519,044	May 1	173	41	67	569
Cultivator attachment	D. E. Baker	530,819	Dec. 11	1299	314	69	1467
Cultivator attachment	A. Dyer	514,917	Feb. 20	1568	393	66	1181
Cultivator attachment	J. Meier	519,408	May 8	860	208	67	717
Cultivator. Corn	E. R. Jones	529,915	Nov. 27	2459	592	69	1144
Cultivator. Cotton	H. Nehrmeyer	513,817	Jan. 30	3474	{ 855 856 }	{ 66	788
Cultivator. Disk	A. L. Brock	526,962	Oct. 2	479	118	69	90
Cultivator. Disk	H. E. Dodson	530,932	Dec. 18	1185	352	69	1516
Cultivator. Garden	E. Wood	522,868	July 10	1180	294	68	239
Cultivator. Hand	E. Franklin	522,425	Oct. 30	2966	718	69	604
Cultivator. Hand	T. T. Rodes	526,818	Oct. 2	242	59	69	46
Cultivator-joint	J. H. Knapp	531,592	Dec. 25	2667	640	69	1752
Cultivator. Lister	F. P. Craig	518,940	May 1	8	2	67	538
Cultivator. Lister	B. F. Erway	530,755	Dec. 11	1203	293	69	1448
Cultivator. Lister	S. D. Poole	521,547	June 19	1424	331	67	1487
Cultivator or plow guide	K. R. Johnson	512,301	Jan. 9	946	231	66	191
Cultivator or seed-planter	L. Kirlin	520,002	May 15	1854	453	67	911
Cultivator. Pulverizing	H. Strasser	526,207	Sept. 18	1542	362	68	1456
Cultivator replanting attachment	A. Wehrman	529,686	Nov. 20	2072	496	69	1063
Cultivator-shovel	J. W. Bartlett	525,310	Aug. 28	2304	560	68	1128
Cultivator-shovels. Device for attaching	S. D. Poole	521,549	June 19	1427	331	67	1487
Cultivator-standards. Device for adjustably attaching weed-cutters to	W. A. McCoy	531,054	Dec. 18	1703	404	69	1556
Cultivator. Straddle-row	G. M. Clark	514,209	Feb. 6	402	{ 96 97 98 }	{ 66	928
Cultivator. Straddle-row wheel	J. I. Hoke	519,631	May 8	1255	302	67	787
Cultivator. Sulky	R. V. Dorsey	525,096	Aug. 28	1964	480	68	1064
Cultivator. Sulky	F. G. Hoffheins	523,857	July 31	2938	732	68	609
Cultivator-tooth	C. Maul	528,603	Nov. 6	140	35	69	672
Cultivator-tooth	C. Maul	528,604	Nov. 6	141	35	69	672
Cultivator-tooth	A. V. Ryder	512,625	Jan. 9	1479	357	66	291
Cultivator-tooth	A. V. Ryder	523,597	July 24	2462	617	68	505
Cultivator trip device	J. G. Hall	513,043	Jan. 16	2208	529	66	443
Cultivator. Wheel	E. Children	528,413	Oct. 30	2943	712	69	600
Cultivator. Wheel	D. Mott	525,054	Aug. 28	1887	462	68	1051
Cultivator. Wheel	A. Plagman	525,231	Aug. 28	2165	533	68	1103
Cultivator. Wheel	S. D. Poole	521,548	June 19	1425	331	67	1487
Cultivator. Wheel	F. C. Stroker	524,287	Aug. 7	534	126	68	757
Cultivators. Pulverizing attachment for	H. Strasser	512,408	Jan. 9	1129	273	66	225
Cup:					{ 96 97 98 }	{ 66	928
See Disinfectant-cup. Orange-cup.							
Dose-cup. Sirm-cup.							
Elevator-cup.							
Cup and base-piece. Combined	H. R. T. Coffin	519,529	May 8	1083	259	67	756
Cupboard for toilet utensils	C. E. Wendt	523,823	July 31	2872	713	68	597
Cup, funnel, and stopper securer. Combined	A. C. McAlpin	518,530	Apr. 17	1897	470	67	378
Cup-head or piston-packing	J. F. Pruden	526,053	Sept. 18	1269	294	68	1407
Cupola-furnace	J. Blakeney	518,482	Apr. 17	1814	449	67	364
Cupola-furnace	W. H. Bradley	516,962	Mar. 20	2039	482	66	1666
Cupola-furnace	J. H. Whiting	526,914	Oct. 2	415	102	69	78
Curb and pavement	P. W. Reardon	520,220	May 22	2258	549	67	999
Curd-cutter	O. Barnard	528,521	Nov. 6	1	1	69	647
Curd-cutting machine	J. A. Gosselin	527,420	Oct. 16	1222	300	69	255
Curl. Pin	K. G. Lambert	517,107	Mar. 27	2309	544	66	1933
Curling iron	D. Barrett	514,430	Feb. 6	748	191	66	994
Curling-iron	R. Friedel	527,172	Oct. 9	807	196	69	165
Curling-iron	C. H. Johnson	527,176	Oct. 9	813	198	69	166
Curling-iron	R. Nicol, Jr	512,516	Jan. 9	1321	319	66	261
Curling-iron	T. F. Payne	516,744	Mar. 20	1693	401	66	1799

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Curling-iron	H. Smith	525,164	Aug. 23	2023	508	68	1085
Curling-iron	C. F. Snyder	520,903	June 5	272	65	67	1247
Curling-iron	C. F. Snyder	530,904	June 5	273	66	67	1247
Curling-iron	G. L. Thompson	519,653	May 8	1291	309	67	793
Curling-iron	M. Thomsen	527,465	Oct. 16	1306	319	69	273
Curling-iron	M. Thomsen	527,466	Oct. 16	1307	319	69	273
Curling-iron and heater	J. C. Chambers	526,685	Oct. 2	23	6	69	7
Curling-iron heater	S. O. Fowler and W. R. Taylor	516,004	Mar. 6	438	101	66	1534
Curling-iron heater	G. E. Proctor	513,530	Jan. 30	3013	744	66	703
Curling-iron heater for lamps	H. C. Goodrich	526,391	Sept. 25	1874	445	68	1534
Curling-iron holder	M. A. Sheldon	522,033	June 26	2291	548	67	1064
Curling-irons. Gas-burner attachment for heating	W. H. Wellpott and O. F. Boellner	523,157	July 17	1760	441	68	362
Curling-irons, &c. Heating-kit for	G. L. Thompson	511,976	Jan. 2	417	97	66	79
Currency-strap	R. Spurgin	513,211	Jan. 23	2459	594	66	562
Current circuits. Apparatus for neutralizing the effect of self-induction in alternating	J. F. Kelly and C. C. Chesney	518,738	Apr. 24	2271	564	67	458
Current distribution. Combined system of alternating and direct	A. L. Clough	526,992	Oct. 2	525	{ 128 129 }	69	98
Current electrodynamic machine. Alternating	M. Hutin and M. Leblanc	529,272	Nov. 13	1343	322	69	910
Current generator. Alternating	J. F. Kelly	529,918	Nov. 27	2463	593	69	1145
Current generator. Alternating	E. W. Rice, Jr.	523,779	July 31	2791	693	68	581
Current-interrupter for high-potential circuits	E. Thomson	522,865	July 10	1177	293	68	238
Current machines. Controller for alternating	E. B. V. Seaverns	521,867	June 26	1970	476	67	1606
Current motor. Alternate	W. Stanley, Jr.	524,534	Aug. 14	978	240	68	857
Current motor. Alternate	W. Stanley, Jr., J. F. Kelly, and C. C. Chesney	515,977	Mar. 6	393	92	66	1526
Current motor. Alternating	C. S. Bradley	514,902	Feb. 20	1544	386	66	1177
Current motor. Alternating	C. S. Bradley	514,904	Feb. 20	1548	387	66	1177
Current motor. Alternating	C. E. L. Brown	515,900	Mar. 6	265	62	66	1503
Current motor. Alternating	C. T. Child	528,121	Oct. 23	2436	589	69	494
Current motor. Alternating	C. Cooper	527,195	Oct. 9	843	205	69	172
Current motor. Alternating	O. Dahl	525,447	Sept. 4	22	55	68	1192
Current motor. Alternating	J. F. Kelly	515,962	Mar. 6	364	86	66	1521
Current motor. Alternating	J. F. Kelly	522,344	July 3	290	76	68	58
Current motor. Alternating	R. Lundell	516,213	Mar. 13	785	183	66	1615
Current motor. Alternating	O. Offrell	520,800	June 5	76	16, 17	67	1211
Current motor. Alternating	W. Stanley, Jr.	520,620	May 29	2913	704	67	1138
Current motor. Alternating	W. Stanley, Jr.	522,356	July 3	307	79	68	61
Current motor and operating same. Alternating	L. Gutmann	530,176	Dec. 4	164	43	69	1245
Current motor. Multiphase	L. Bell	520,763	June 5	4	1	67	1197
Current motor. Universal-phase alternate	T. Duncan	518,310	Apr. 17	1499	{ 375 376 }	67	307
Current motors. Means for regulating alternating	E. M. Bentley	522,820	July 10	1121	278	68	227
Current motors. Method of and means for starting alternating	L. Bell	520,764	June 5	5	2	67	1197
Current motors. Starting alternating	L. Bell	531,432	Dec. 25	2386	571	69	1698
Current regulator. Alternating	O. Offrell	521,666	June 19	1626	381	67	1524
Current-separator	L. F. Johnson	522,837	July 10	1143	283	68	231
Current transformer. Alternating	C. S. Bradley	519,376	May 8	805	196	67	707
Current transformer. Alternating	A. W. Meston	530,597	Dec. 11	935	{ 229 230 }	69	1402
Currents. Economizing the energy of alternating	C. F. Scott	520,970	June 5	390	95	67	1268
Currents. Means for regulating alternating	E. Thomson	516,847	Mar. 20	1846	437	66	1829
Currents. Method of and apparatus for changing period and phase of alternating	C. S. Bradley	525,312	Aug. 28	2306	560	68	1128
Currents. Method of and apparatus for transforming alternating into continuous	J. F. Kelly	522,988	July 17	1401	350	68	296
Currents. Producing continuous motion by alternating	J. F. Kelly	522,345	July 3	291	76	68	58
Currents. Regulation of alternating	E. Thomson	516,846	Mar. 20	1844	437	66	1829
Currycomb	C. H. Bartlett	522,578	July 10	696	{ 176 177 }	68	152
Currycomb	J. R. Blosser	517,259	Mar. 27	2560	600	66	1981
Currycomb	C. J. Garvey	531,412	Dec. 25	2351	561	69	1690
Currycomb	R. W. Hardie	527,973	Oct. 23	2175	522	69	447
Currycomb	F. C. Ives	516,160	Mar. 6	686	161	66	1581
Currycomb	W. Ransweiler	514,031	Feb. 6	90	22	66	871
Currycomb. Spring	T. Butterworth	516,520	Mar. 13	1310	311	68	1712
Curtain	A. M. Branshaw	528,071	Oct. 23	2344	566	69	478
Curtain	J. Darling	516,921	Mar. 20	1973	464	66	1852
Curtain attachment. Window	J. M. Freeman	526,306	Sept. 18	1712	403	68	1491
Curtain-bracket. Adjustable	R. T. Green	526,920	Oct. 2	424	105	69	79
Curtain-fixture	F. H. Bassett	513,171	Jan. 23	2403	{ 580 581 }	66	551
Curtain-fixture	S. L. Bergstresser and C. F. Mignot	530,079	Dec. 4	6	2	69	1216
Curtain-fixture	A. B. Dunkle	531,519	Dec. 25	2550	610	69	1728
Curtain-fixture	J. H. Fitzgerald and M. A. Gaugh	518,918	Apr. 24	2560	633	67	513
Curtain-fixture	C. E. Goodrich	517,453	Apr. 3	68	15	67	15
Curtain-fixture	W. Meyer	513,406	Jan. 23	2775	078	66	623
Curtain-fixture	M. D. Miller and B. H. Oldfield	514,564	Feb. 13	982	248	66	1056
Curtain-fixture	E. Schaub	515,172	Feb. 20	1963	490	66	1254
Curtain-fixture	I. Williams	518,977	May 1	64	16, 17	67	548
Curtain-fixture. Window	W. H. King	516,603	Mar. 13	1438	341	66	1736
Curtain frame. Lace	M. V. Bonsall	527,316	Oct. 9	1052	254	69	210
Curtain guide and stop	G. C. Sawade	519,647	May 8	1223	307	67	791
Curtain-hanger	M. Gair	525,143	Aug. 28	2045	499	68	1079
Curtain-holder	O. E. H. Kramer	515,000	Feb. 20	1684	423	66	1203
Curtain-holding device	O. Anderson	522,176	June 26	2530	607	67	1711
Curtain-holding device	E. E. Piper	516,280	Mar. 13	892	210	66	1636
Curtain-holding device	E. E. Piper and G. H. Davis	515,924	Mar. 6	300	71	66	1509
Curtain or shade rollers. Adjustable hanger for	S. R. Smith	514,046	Feb. 6	113	26	66	875
Curtain-pole ring	C. W. Lawrence	514,560	Feb. 13	971	245	66	1054
Curtain-pole ring, &c.	J. A. Rings	531,563	Dec. 25	2620	{ 627 628 }	69	1743

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Curtain-pole support. Adjustable.....	G. Barber.....	524,080	Aug. 7	189	42	68	696
Curtain-ring.....	A. B. Schofield.....	515,097	Feb. 20	1833	463	66	1230
Curtain-rod.....	W. H. Edsall.....	519,840	May 15	1560	389	67	863
Curtain-rod.....	H. A. Fowler and J. H. Lingley.....	527,273	Oct. 9	984	238	69	197
Curtain-rod. Adjustable.....	W. A. Turner.....	520,584	May 29	2860	692	67	1128
Curtain-rod support.....	H. Benoit.....	526,371	Sept. 25	1833	435	68	1527
Curtain-roller.....	F. and C. Otto.....	520,008	May 15	1863	456	67	912
Curtain-stick and guide.....	G. L. Bailey.....	528,709	Nov. 6	327	80	69	706
Curtain-stop.....	L. Moyle.....	530,896	Dec. 11	1423	338	69	1490
Curtain-stretcher.....	R. J. Bartley.....	521,200	June 12	795	187	67	1354
Curtain-stretcher.....	P. M. Hartpence.....	517,694	Apr. 3	470	113	67	90
Curtain-stretcher. Lace.....	A. P. Bohlinger.....	513,073	Jan. 23	2247	542	66	520
Curtain stretcher-rod and guide attachment-hook. Car.....	A. Schulte.....	524,972	Aug. 21	1709	419	68	1062
Curtains, &c. Adjustable rack for stretching lace. Cushion:.....	C. L. Kuehn.....	520,690	May 29	3046	737	67	1162
See Buggy-cushion.							
Cushion or mattress.....	H. and E. Brupbacher.....	529,852	Nov. 27	2361	564	69	1126
Cuspidor-holder.....	C. E. Kellogg.....	518,107	Apr. 10	1153	289	67	227
Cuspidor. Invalid's.....	J. S. Ross.....	520,967	June 5	386	94	67	1268
Cuspidor. Stationary.....	O. W. Smith.....	524,913	Aug. 21	1608	394	68	984
Cut-off and filter. Automatic rain-water.....	W. W. Bays.....	513,000	Jan. 16	2147	{ 511 } 512	66	432
Cut-off and strainer attachment for rain-water spouts.....	A. H. Barth.....	527,400	Oct. 16	1191	292	69	249
Cut-off mechanism.....	W. W. Wallace.....	526,274	Sept. 18	1647	{ 388 } 389	68	1477
Cut-off. Rain-water.....	J. M. Castaing and J. B. Dohin.....	529,596	Nov. 20	1934	460	69	1038
Cut-off. Rain-water.....	W. C. Hilliker.....	520,484	May 29	2694	632	67	1097
Cut-off. Rain-water.....	A. Kroll.....	524,113	Aug. 7	244	57	68	706
Cut-off. Rain-water.....	C. S. Low.....	516,499	Mar. 13	1265	301	66	1704
Cut-out.....	H. Lemp.....	514,480	Feb. 13	844	215	66	1030
Cut-out and cord-adjuster. Combined.....	E. D. Knap.....	520,318	May 22	2414	587	67	1029
Cut-out. Automatic electromagnetic.....	L. T. Stanley.....	521,423	June 12	1187	282	67	1428
Cut-out. Automatic electromagnetic.....	L. T. Stanley and A. E. Braddell.....	528,185	Oct. 30	2545	617	69	530
Cut-out block.....	E. J. McEvoy.....	514,018	Feb. 6	66	16	66	866
Cut-out. Electrical.....	A. Rockoff.....	525,563	Sept. 4	415	100	68	1228
Cut-out meter.....	C. D. Haskins.....	518,244	Apr. 17	1399	350	67	228
Cut-out. Multiple safety.....	J. F. McLaughlin.....	527,501	Oct. 16	1354	331	69	281
Cutlery. Table.....	J. C. Richberg.....	512,146	Jan. 23	2365	571	66	544
Cutter:							
See Band-cutter. Meat-cutter.							
Boiler-flue cutter. Milling-cutter.							
Bolt-cutter. Miter-cutter.							
Bolt or rod cutter. Paper-cutter.							
Bone-cutter. Pipe-cutter.							
Bread-cutter. Potato-cutter.							
Brush-cutter. Root-cutter.							
Buttonhole-cutter. Rotary cutter.							
Cigar-cutter. Sewing-machine thread-cutter.							
Cigar-tip cutter. Sod-cutter.							
Corn-cutter. Splint-cutter.							
Corn-stubble cutter. Stalk-cutter.							
Cotton-band cutter. Thrasher band-cutter.							
Cracker-cutter. Thrashing-machine band-cutter.							
Curd-cutter. Thread-cutter.							
Expandable cutter. Tobacco-cutter.							
Feed-cutter. Tooth or bone cutter.							
Fruit-cutter. Tube-cutter.							
Gear-cutter. Vegetable-cutter.							
Glass-cutter. Veterinary tooth-cutter.							
Gore-cutter. Weed-cutter.							
Heel cutter. Wire-cutter.							
Ice-cutter. Wire-cutter.							
Kraut-cutter. Wire-cutter.							
Cutter-blade clamp.....	W. R. Fee.....	520,260	May 22	2323	{ 563 } 564	67	1011
Cutter-cylinder for feed-cutters.....	G. S. and R. C. Anderson.....	523,876	July 31	2970	739	68	616
Cutter-guard.....	F. H. Warren.....	514,741	Feb. 13	1285	320	66	1113
Cutter-head.....	S. J. Shimer.....	527,080	Oct. 9	659	161	69	139
Cutter-head.....	A. S. Spaulding.....	531,396	Dec. 25	2328	555	69	1687
Cutter-head for woodworking-machines.....	E. G. Blaney, Jr.....	527,593	Oct. 16	1492	363	69	305
Cutter-head. Rotary.....	G. C. Goodyear.....	520,046	May 22	1931	473	67	841
Cutter-head support.....	A. Kendig.....	530,427	Dec. 4	609	152	69	1327
Cutter-heads. Power attachment for side.....	C. C. Stuart.....	520,581	May 29	2856	691	67	1128
Cutter. Knockdown.....	J. K. Fisher.....	517,855	Apr. 10	723	182	67	154
Cutter sleeve. Rotary.....	H. M. Loomer and C. G. Belmer.....	522,262	July 3	159	42	68	32
Cutter or trimmer for wood, leather, &c.....	J. A. Hess.....	527,604	Oct. 16	1525	370	69	311
Cutting-board.....	J. T. Sheffield.....	514,096	Feb. 6	191	44	66	890
Cutting-machine.....	F. Willcox.....	529,005	Nov. 13	880	208	69	826
Cutting-machine.....	P. E. Wilson and P. M. Hesch, Jr.....	518,978	May 1	67	17	67	548
Cutting-off tool.....	E. W. Gourd.....	519,183	May 1	438	107	67	622
Cutting-rolls.....	J. A. Hess.....	518,647	Apr. 24	2094	522	67	428
Cutting-tool.....	A. Hussey.....	528,725	Nov. 6	351	86	69	710
Cutting-tool.....	W. H. Nelson.....	528,787	Nov. 6	470	115	69	731
Cutting-tool for granite, &c.....	W. C. Young.....	523,095	July 17	1572	395	68	329
Cyanids of alkaline metals. Making.....	C. T. J. Vautin.....	526,592	Sept. 25	2202		68	1594
Cycle-canopy and support.....	W. T. Jordan.....	521,619	June 19	1551	362	67	1509
Cycle-driving and steering action.....	W. H. Ford.....	511,839	Jan. 2	145	37	66	31
Cycle-driving mechanism.....	F. L. Eager.....	520,638	May 29	2943	711	67	1143
Cycle-frame.....	E. E. Hersh.....	529,861	Nov. 27	2372	568	69	1128
Cycle-frame.....	A. Perkins.....	515,717	Feb. 27	2870	715	66	1438
Cycle-saddle.....	G. Simmonite and H. L. Holderness.....	516,230	Mar. 13	816	{ 190 } 191	66	1621
Cycle-saddle. Pneumatic.....	J. Carroll.....	516,364	Mar. 13	1043	248	66	1662

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Di-g.	Vol.	Page.
Cycle-saddle seat	C. L. Pepper	515,966	Mar. 6	369	88	66	1522
Cycle-steering lock	R. F. Hall	523,874	Nov. 6	648	154 155	69	764
Cycle-support. Automatic	R. B. Chambers	518,914	Apr. 24	2553	631	67	511
Cycle. Trolley	H. L. Gardner	526,832	Oct. 2	265	64	69	50
Cycle-wheel	M. D. Rucker and G. P. Mills	514,965	Feb. 20	1636	409	68	1195
Cycles. Device for altering speed of	R. Schwéers and C. Fuchs	525,030	Aug. 28	1834	447 448	68	1043
Cycles or other road-vehicles. Brake apparatus for	J. G. A. Kitchen	530,693	Dec. 11	1101	267	69	1430
Cyclometer	J. Butcher	522,965	July 17	1362	338	68	289
Cyclometer	O. J. Fuchs	513,040	Jan. 16	2203	528	66	443
Cyclometer	J. A. Mosher, W. N. Beardsley, and A. D. Moulton	531,269	Dec. 18	2098	504	69	1626
Cyclometer	C. E. Moss	531,207	Dec. 18	1986	472	69	1606
Cyclometer	I. L. Sheldon	515,257	Feb. 20	2107	523	66	1281
Cylinder-lock	J. T. Pedersen	524,648	Aug. 14	1166	287	68	893
Cylinders. Securing teeth to	J. H. Dunbar	526,304	Sept. 18	1710	403	68	1490
Dairy. Portable	J. H. McIlveen	519,266	May 1	583	142	67	650
Dam	F. H. Bainbridge	525,834	Sept. 11	904	201	68	1328
Damper	J. W. Anderson	517,993	Apr. 10	966	241	67	195
Damper	R. M. Hermance	522,521	July 3	590	151	68	116
Damper	W. E. Patchin	520,495	May 29	2713	657	67	1100
Damper	E. Webster	521,531	June 19	1403	324	67	1483
Damper. Cooking stove or range	F. V. Knauss	529,622	Nov. 20	1970	469	69	1045
Damper or damper-clip	W. H. Berger	516,464	Mar. 13	1205	289	66	1693
Damper. Pipe	L. T. Lenderking	518,785	Apr. 24	2340	580	67	472
Damper-regulator	A. Catchpole	514,444	Feb. 13	771	198	66	1016
Damper-regulator. Automatic	S. M. Gaston	514,887	Feb. 13	1517	380	66	1157
Damper-regulator. Automatic	H. F. Maxim	513,048	Jan. 30	3677	905	66	829
Damper-regulator. Steam-boiler	R. D. Tomlinson	515,030	Feb. 20	1738	439	66	1212
Damper. Stove	E. C. Cole	523,267	July 17	1897	477	68	388
Damper, &c. Stove	N. D. White	529,224	Nov. 13	1258	303	69	594
Damper. Stovepipe	M. Redlinger and C. Morgan	520,379	May 22	2519	609	67	1050
Damper. Stovepipe	H. W. Wilson	527,573	Oct. 16	1471	358	69	301
Dampers. Means for operating stove	E. D. Nellis	516,375	Mar. 20	1890	447	66	1838
Danger-signal	G. M. Chace	530,283	Dec. 11	1403	334	69	1486
Danger-signal and lock for switches	G. E. Edwards	531,025	Dec. 18	1654	392	69	1546
Darning and embroidering frame	G. P. Hill	519,258	May 1	574	139 140	67	649
Dashboard and fender. Vehicle	A. F. Blease	520,388	May 22	2532	612	67	1052
Dating and stamp-canceling machine	J. J. B. McElrath	520,698	May 29	2063	741 742	67	1165
Davit. Automatic boat	F. Ench, H. Fögel, J. L. Cooke, and G. F. W. Schultze	522,787	July 10	1069	264	68	218
Davit. Boat's	A. R. Paul	514,661	Feb. 13	1144	285	66	1086
Dead-centers. Device for overcoming	C. M. Currey	517,264	Mar. 27	2563	602	66	1283
Dead-light	A. McDougall	513,522	Jan. 30	2993	737	66	699
Deaf-mute instruction. Apparatus for	G. A. Leech	523,536	July 24	2366	594	68	488
Decapping or recapping implement	W. A. Wright	525,065	Aug. 28	1904	466	68	1055
Deck-iron	F. D. Chase	527,663	Oct. 16	1620	391	69	329
Decorating glass or other surfaces	J. Budd	526,558	Sept. 25	2154	.....	68	1584
Decorating material	P. M. Heerwagen	522,369	July 3	330	85	68	65
Decorating mixtures. Preparing	M. B. Church	513,003	Jan. 16	2154	.....	66	433
Decorative films. Device for applying	W. H. Coe	526,964	Oct. 2	485	119	69	91
Decorticating china-grass, &c. Machine for	J. A. Lacôte	524,829	Aug. 21	1476	360 361	68	962
Decorticating-machine	J. H. Boeken	524,573	Aug. 14	1042	257	68	869
Decorticating ramie, &c. Machine for	P. A. Favier	520,983	June 5	417	100	67	1272
Decorticating ramie. Machine for	C. Philibert, E. Perreau, and A. Laborde	514,494	Feb. 13	870	221	66	1034
Decorticating ramie or other plants. Machine for	A. D. Estienne	531,307	Dec. 25	2172	519 520	69	1656
Decorticator. Rice	F. Dresser	516,479	Mar. 13	1225	293	66	1697
Decoy. Collapsible	W. W. Roberts	529,463	Nov. 20	1706	407	69	996
Decoy. Inflatable	S. Curlin	512,810	Jan. 16	1826	433	66	372
Deflector. Light	D. E. Hawkins	518,503	Apr. 17	1851	459	67	370
Dehorning-shears	F. H. Adsit	514,803	Feb. 13	1379	347	66	1132
Delineating-machine. Automatic	F. Bangertner	512,089	Jan. 2	603	145	66	115
Delivering goods. Apparatus for automatically	A. F. Martel	517,412	Mar. 27	2848	667 668	66	2038
Delivery apparatus. Coin-freed	L. Cecchi	525,692	Sept. 11	641	150 151	68	1282
Delivery apparatus. Coin or check controlled	J. W. Smallwood	512,758	Jan. 16	1736	412	66	355
Demijohn-crate	C. B. Dann	524,193	Aug. 7	382	91	68	731
Dental abrading or cutting tool	W. S. How	522,211	July 3	68	14	68	14
Dental apparatus	F. M. Osborn	525,816	Sept. 11	863	197	68	1321
Dental apparatus	W. Wright	522,309	July 3	231	62	68	46
Dental appliance	Z. Hand	520,357	May 22	2484	602	67	1042
Dental articulator	J. W. Anderson	529,010	Nov. 13	893	211	69	829
Dental articulator	G. K. Bagby	522,188	July 3	4	1	68	3
Dental articulator	F. E. Hansson	516,529	Mar. 13	1321	314	66	1714
Dental articulator	D. M. Hitch	530,524	Dec. 11	805	200	69	1379
Dental bite-plate	W. S. How	522,212	July 3	68	14	68	14
Dental bracket	A. Bond	531,257	Dec. 18	2078	497	69	1622
Dental chair	A. W. Browne	519,756	May 15	1452	351 352	67	836
Dental chair	A. W. Browne	519,757	May 15	1455	353	67	837
Dental chair	A. W. Browne	519,758	May 15	1457	353	67	837
Dental chair	A. W. Browne	519,883	May 15	1664	405	67	876
Dental chair	A. W. Browne	519,884	May 15	1666	405	67	877
Dental chair	A. W. Browne	520,947	June 5	359	87	67	1262
Dental chair	A. W. Browne	520,948	June 5	360	88	67	1263

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Dental chair	A. W. Browne.....	521,256	June 12	896	{ 211	67	1372
Dental chair	A. W. Browne.....	521,257	June 12	898	{ 212	67	1373
Dental chair	A. W. Browne.....	529,611	Nov. 20	2004	{ 479	69	1050
Dental chair	E. B. Cushing	526,071	Sept. 18	1303	{ 302	68	1413
Dental chair	T. H. and E. Gardner	519,109	May 1	288	{ 68, 69	67	590
Dental chair	J. Hood and S. H. Reynolds	518,887	Apr. 24	2511	{ 621	67	503
Dental chair	D. Stuck	522,922	July 10	1279	{ 317	68	257
Dental clamp	J. M. Strout	514,289	Feb. 6	539	{ 132	66	955
Dental disk-carrier	G. B. Richmond	518,701	Apr. 24	2192	{ 548	67	445
Dental engine	F. H. Berry	516,465	Mar. 13	1206	{ 290	66	1693
Dental engine	A. W. Browne.....	515,816	Mar. 6	142	{ 34	66	1479
Dental engine	A. G. Stanbrough	520,667	June 5	206	{ 46	67	1235
Dental-engine angle attachment	C. H. Davis	522,291	July 3	202	{ 55	68	41
Dental-engine bracket-arm. Adjustable	J. E. Stanton	513,214	Jan. 23	2466	{ 595	66	553
Dental engine. Electric	J. A. and B. A. Jeffery	530,344	Dec. 4	477	{ 118	69	1301
Dental-engine head	A. J. Harris	517,218	Mar. 27	2495	{ 587	66	1969
Dental-engine mallet	F. M. McCarty	515,126	Feb. 20	1884	{ 473	66	1238
Dental engines. Adjustable bracket for	A. W. Browne.....	522,552	July 3	637	{ 162	68	125
Dental engines. Electric motor for	W. A. Crowdus	521,138	June 5	684	{ 160	67	1320
Dental forceps	W. S. How	513,015	Jan. 16	2172	{ 517	66	436
Dental handpiece	S. H. Brooks	518,175	Apr. 10	1262	{ 318	67	246
Dental-handpiece angle attachment	R. G. Stanbrough	517,248	Mar. 27	2541	{ 536	66	1978
Dental-handpiece angle attachment	R. G. Stanbrough	517,249	Mar. 27	2543	{ 537	66	1978
Dental handpieces. Adjustable angle attachment for	C. L. Furman and G. E. Holland	513,178	Jan. 23	2412	{ 582	66	553
Dental handpieces. Angle attachment for	F. K. Hesse	514,073	Feb. 6	152	{ 36	66	883
Dental handpieces. Angle attachment for	F. K. Hesse	514,074	Feb. 6	154	{ 36	66	883
Dental impression-cup	H. L. Knight and H. E. Duncan	516,310	Mar. 13	935	{ 220	66	1644
Dental mandrel	W. S. Elliott	514,882	Feb. 13	1508	{ 378	66	1156
Dental mirror	E. B. Hitchcock	522,163	Oct. 30	2507	{ 606	69	522
Dental mold for teeth	J. R. Phelps	512,840	Jan. 16	1873	{ 443	66	381
Dental mouth-mirror	A. E. Gray	524,419	Aug. 14	799	{ 196	68	824
Dental napkin-holder	G. A. Bronson	531,093	Dec. 18	1774	{ 423	69	1567
Dental napkin-holder	G. A. Bronson	531,094	Dec. 18	1775	{ 423	69	1568
Dental or surgical chair	A. P. Gould	529,902	Nov. 27	2436	{ 555	69	1140
Dental or surgical chair	E. P. Stiles	525,166	Aug. 28	2037	{ 508	68	1086
Dental pellet	G. B. Richmond	525,797	Sept. 11	826	{ 188	68	1315
Dental-pellet machine	G. B. Richmond	525,798	Sept. 11	828	{ 189	68	1315
Dental plate	T. H. Graham	521,930	June 26	2037	{ 503	67	1630
Dental-plate blank. Rubber	J. Spyer	527,817	Oct. 23	1875	{ 450	69	333
Dental plates. Forming	M. P. Boyd	531,092	Dec. 18	1772	{ 423	69	1567
Dental plates. Forming	G. W. Traphagen	526,332	Sept. 18	1753	{ 116	68	1499
Dental plates. Making	J. Spyer	525,519	Sept. 4	332	{ 82	68	1213
Dental plates. Manufacturing	G. A. Tompkins	517,151	Mar. 27	2376	{ 562	66	1946
Dental plugger	G. A. Foster and C. E. Hoffman	513,362	Jan. 23	2707	{ 657	66	610
Dental-plugger	A. A. Nouel, Jr.	525,920	Sept. 11	1050	{ 238	68	1354
Dental saliva-ejector	F. D. Sherwin	530,556	Dec. 11	868	{ 214	69	1390
Dental tool	J. G. Hollingsworth	527,690	Oct. 16	1668	{ 402	69	338
Dental tool guard	F. A. Kotts	514,941	Feb. 20	1598	{ 401	66	1188
Dental-tool-sterilizing apparatus	A. E. Peck	525,278	Aug. 28	2262	{ 550	68	1120
Dental vulcanizer	Z. T. Sailer	526,462	Sept. 25	2015	{ 480	68	1559
Dental vulcanizer	J. H. Beehee	524,798	Aug. 21	1420	{ 348	68	952
Dental vulcanizer	C. A. Davis	516,700	Mar. 20	1611	{ 384	66	1785
Dental vulcanizer	T. G. Lewis	526,785	Oct. 2	195	{ 46	69	37
Dentistry. Mechanical	L. Robertson	514,201	Feb. 6	387	{ 92	66	926
Deoxidizing or oxidizing apparatus	A. B. Kittson and A. B. Browne	522,422	July 3	424	{ 108	68	84
Depth-gage	A. G. Hollister	526,105	Sept. 18	1361	{ 317	68	1424
Depnrotor	E. H. Gollings	517,274	Mar. 27	2581	{ 605	66	1986
Derailing-block	M. Mitchell	522,300	July 3	220	{ 59	68	44
Derrick	M. Beal	531,249	Dec. 18	2063	{ 493	69	1619
Derrick	W. R. Close	518,225	Apr. 17	1369	{ 342	67	283
Derrick	S. R. French	514,355	Feb. 6	640	{ 164	66	973
Derrick	W. E. Whitcomb	519,364	May 8	787	{ 192	67	704
Derrick. Floating	T. T. H. Harwood	520,676	May 29	3024	{ 731	67	1158
Derrick. Hay-elevating	D. Ogilvie	524,862	Aug. 21	1530	{ 374	68	971
Desk	K. Lee	513,465	Jan. 23	2382	{ 709	66	643
Desk	T. McCarthy	522,849	July 10	1156	{ 287	68	234
Desk. Adjustable	L. Atzert	519,655	May 8	1295	{ 309	67	793
Desk. Adjustable	M. A. Wertheimer	517,633	Apr. 3	358	{ 85	67	70
Desk and form. School	A. Marsch	523,538	July 24	2370	{ 594	68	489
Desk and reading-stand. Knee	A. R. Cooper	527,108	Oct. 9	705	{ 173	69	146
Desk and seat. School	C. T. Ammon	520,026	May 22	1900	{ 464	67	935
Desk and seat. School	A. J. Palmberg	520,702	May 29	3070	{ 743	67	1166
Desk and type-writer cabinet. Combined	A. B. Dick	518,778	Apr. 24	2329	{ 578	67	470
Desk attachment. School	C. M. Aermann	515,735	Mar. 6	1	{ 1	66	1455
Desk. Curtain	J. F. Wilmot	514,108	Feb. 6	206	{ 47	66	893
Desk-lid support	C. Dorff	513,382	Jan. 23	2738	{ 666	66	617
Desk or stationery implement	T. D. Ingram	527,859	Oct. 23	1960	{ 471	69	407
Desk or table article	W. and L. Dorsam	514,351	Feb. 6	637	{ 163	66	972
Desk or table. Writing	C. and L. Borm	523,183	Aug. 28	2119	{ 516	68	1091
Desk support and hinge. Combined	F. W. Tobey	520,462	May 29	2655	{ 642	67	1090
Desk. Wall	J. F. Figgins	518,567	Apr. 17	1359	{ 453	67	369
Detachable hook	H. A. De Raismes	526,519	Sept. 25	2098	{ 500	68	1574
Detaching-block	G. W. Moore	521,293	June 12	961	{ 228	67	1384

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & Co.	Vol.	Page.
Detector:							
See Time-detector.							
Detector-bar-operating mechanism	A. H. Johnson	515,493	Feb. 27	2505	620	66	1367
Detergent	A. Froidevaux	522,708	July 10	906		68	190
Device for tradesmen's use	T. L. Bristol	527,589	Oct. 16	1501	365	69	307
Dial-sinking machine	G. E. Hunter	527,988	Oct. 23	2208	{ 532 533 425 426 }	69	452
Dial transmitter	F. Pearce and J. Broich	526,356	Sept. 18	1793	{ 425 426 }	68	1506
Diamido base	J. J. Brack	516,752	Mar. 20	1704		66	1801
Diamido base	J. J. Brack	516,753	Mar. 20	1705		66	1801
Diamido base	J. J. Brack	516,754	Mar. 20	1707		66	1802
Diamido base	J. J. Brack	516,755	Mar. 20	1708		66	1802
Diamond. Glazier's	P. Sinsz	520,247	May 22	2301	558	67	1007
Diamond-setting	F. P. D'Arcy	517,265	Mar. 27	2569	602	66	1963
Diamonds in cutting-tools. Setting	A. Dittmer	529,611	Nov. 20	1957	465	69	1042
Diastatic enzyme. Making	J. Takamine	525,823	Sept. 11	885		68	1324
Dice-box	E. Gregory	528,428	Oct. 30	2970	718	69	605
Dice. Coin-controlled machine for throwing	E. Homan	512,031	Jan. 2	505	{ 119 120 }	66	97
Dice-machine. Coin-controlled	H. C. Bailey and H. Barker	515,104	Feb. 20	1843	464	66	1231
Dice-thrower	J. H. Nellis	524,265	Aug. 7	497	115	68	751
Dice-throwing device	C. S. Grove	518,316	Apr. 17	1515	379	67	309
Die:							
See Screw-cutting die. Sole-cutting die.							
Die	C. Wagenführ	523,300	July 17	1950	490	68	397
Die and making same	A. J. Bradley	522,953	July 10	1336	332	68	269
Die for shaping metal press-wheels	A. J. Green	518,668	Apr. 24	2135	534	67	435
Die-press	W. A. Turner	512,415	Jan. 9	1143	278	66	227
Die-stock	J. E. Fahy	518,608	Apr. 24	2382	589	67	478
Die stock or holder	W. D. Putnam	519,734	May 15	1422	343	67	831
Differential brake	A. Falkenau	513,771	Jan. 30	3405	840	66	774
Digester	E. Meurer	514,197	Feb. 6	375	89	66	924
Digester	E. Meurer	514,374	Feb. 6	671	170	66	979
Digester	H. W. Stebbins	528,399	Oct. 30	2917	706	69	595
Digester	H. W. Stebbins	528,400	Oct. 30	2918	706	69	596
Digger:							
See Post-hole digger. Potato-digger.							
Dimethylpiperazin	C. Stoebr	514,632	Feb. 13	1099		66	1078
Dimethylpiperazin tartrate	C. Stoebr	523,018	July 17	1459		68	307
Dipper	E. C. Baughman	525,382	Sept. 4	109	28	68	1170
Dipper-socket	G. W. Kuapp	514,230	Feb. 6	443	106	66	936
Direct-acting engine	P. Chouteau	520,915	June 5	299	73	67	1252
Direct-acting engine	C. P. Deane	529,545	Nov. 20	1855	441	69	1022
Direct-acting engine	J. Kidd	528,299	Oct. 30	2752	665	69	566
Direction and speed device. Variable	S. L. Heywood	530,588	Dec. 11	921	225	69	1400
Directory post and call-box	J. T. Field	530,099	Dec. 4	37	11	69	1222
Dish. Butter-	R. Hill	519,125	May 1	329	78	67	601
Dish-cleaner	J. G. Cochrane	512,683	Jan. 16	1581	380	66	326
Dish-cleaner	E. A. Couch	523,422	July 24	2161	545	68	452
Dish-cleaner	M. A. Crosby	527,326	Oct. 9	1060	256	69	211
Dish-cleaner	W. P. Harrison	528,875	Nov. 6	649	155	69	765
Dish-cleaner	H. F. Low and L. A. Thompson	516,805	Mar. 13	1441	342	66	1737
Dish-cleaner	G. I. McCarten and A. R. Dickason	522,565	July 3	664	169	68	130
Dish-cleaner	W. I. McCausland	516,103	Mar. 6	590	{ 138 139 }	66	1563
Dish-cleaner	F. Noble	519,091	May 1	259	61, 62	67	586
Dish-cleaner	J. J. O'Neill	527,122	Oct. 9	730	179	69	150
Dish-cleaner	C. Palmleaf	520,829	June 5	135	29	67	1222
Dish-cleaner	F. Rowley	531,389	Dec. 25	2318	553	69	1664
Dish-cleaner	R. A. Sanderson and J. C. Earl	524,510	Aug. 14	943	{ 232 233 }	68	850
Dish-cleaner	J. N. Tinklepaugh	524,621	Aug. 14	1127	277	68	885
Dish-cleaner	S. A. Walter	511,920	Jan. 2	330	77, 78	66	63
Dish-cleaner	F. H. West	518,298	Apr. 17	1481	{ 370 371 }	67	304
Dish-cleaner	A. A. Wright	524,409	Aug. 14	786	192	68	821
Dishcloth-holder	H. F. Wheeler	513,223	Jan. 23	2477	598	66	565
Dish-cover	T. York	519,417	May 8	874	211	67	720
Dish-drainer	M. Reid	519,736	May 15	1425	344	67	831
Dish. Supported	J. B. Timberlake	514,205	Feb. 6	390	93	66	927
Dish-washer	M. Stone	516,557	Mar. 13	1363	324	66	1722
Disinfectant	C. D. Lippincott	511,782	Jan. 2	62		67	15
Disinfectant and preparing same	P. Molyneux	514,235	Feb. 6	449		66	937
Disinfectant-cup	W. L. Gerard	519,811	May 15	1546	378	67	854
Disinfecting apparatus	H. K. Andersson	528,135	Oct. 30	2470	597	69	515
Disinfecting apparatus	W. M. Brinkerhoff	523,803	July 31	2840	706	68	591
Disinfecting apparatus	C. T. Cox	525,646	Sept. 4	536	131	68	1251
Disinfecting apparatus	B. C. Graves	515,210	Feb. 20	2024	505	66	1265
Disinfecting apparatus	B. McEvoy	513,411	Jan. 23	2783	680	66	625
Disinfecting apparatus	R. P. Pictet	531,329	Dec. 25	2211	529	69	1663
Disinfecting apparatus	R. A. Rosenblatt	520,540	May 29	2782	673	67	1113
Disinfecting apparatus	J. L. Stratton and F. Murdock. (Reissue.)	11,418	May 1	676	165	67	668
Disinfecting device	F. L. Dolbeare and A. E. Keating	525,450	Sept. 4	229	56	68	1193
Disinfecting device	W. Moackler	526,252	Sept. 13	1618	379	68	1471
Disinfecting device	P. de Murguiondo	522,847	July 10	1154	286	68	234
Disinfecting device	S. and E. Taussig	522,863	July 10	1174	293	68	238
Disinfecting water-closets, &c. Sanitary arrangement for automatically	S. A. Johnson	521,411	June 12	1166	277	67	1425
Disintegrating fibrous plants. Machine for	A. L. Eria	526,103	Sept. 18	1358	{ 315 316 }	68	1423
Disintegrator	N. Stedman	518,010	Apr. 10	994	248	67	200

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Disintegrator	N. Stedman	518,011	Apr. 10	995	{ 248 249	67	200
Disk. Indexed	A. J. Wills	520,100	May 22	2024	494	67	958
Dispatch-tube system	W. G. Collins	518,093	Apr. 10	1127	285	67	221
Dispatch-tube system	H. G. Underwood	524,006	Aug. 7	64	14, 15	68	673
Display-box	N. Schroder	521,050	June 5	533	125	67	1294
Display-cabinet. Ribbon	L. Schoolhouse	528,035	Oct. 23	2286	551	69	467
Display-case	J. Kahn	511,894	Jan. 2	286	66	66	56
Display-counter	W. L. Sonntag and R. A. Brennan	515,559	Feb. 27	2613	648	66	1388
Display device. Automatic	B. J. Smith	519,483	May 8	983	{ 237 238	67	738
Display device. Knockdown	A. von Cotzhausen	529,603	Nov. 20	1945	463	69	1040
Display-envelope	C. J. Billwiller	512,533	Jan. 9	1340	323	66	265
Display-holder	A. L. Stone	526,135	Sept. 18	1413	329	68	1434
Display-hook	G. Gordon	511,944	Jan. 2	366	85	66	69
Display-rack	F. F. Bent	529,439	Nov. 20	1563	396	69	989
Display-rack	B. Chamberlin	516,347	Mar. 13	994	236	66	1655
Display-rack	S. P. Denison	518,098	Apr. 10	1136	286	67	223
Display-rack	O. Magenau	517,873	Apr. 10	744	187	67	158
Display-rack. Combined folding and revolving	W. H. Conrad	531,022	Dec. 18	1651	391	69	1545
Display-rack. Rotary	F. A. Jewett	518,526	Apr. 17	1891	{ 468 469	67	377
Display-rack. Wall paper	C. M. and H. B. Patterson	522,085	June 26	2372	571	67	1681
Display-rack with adjustable arm	M. S. Melzer	516,869	Mar. 20	1881	445	66	1836
Display-stand	J. H. Barker	516,907	Mar. 20	1950	459	66	1848
Displaying chains. Tray for	W. Stiefelhagen	520,943	June 5	354	86	67	1262
Displaying samples of paint. Rack for	G. W. Ford	512,691	Jan. 16	1600	384	66	329
Dissolving, leaching, and filtering. Method of and apparatus for	J. Storer and B. T. Lacy	525,970	Sept. 11	1136	258	68	1370
Distances. Instrument for ascertaining	V. de Ziegler and C. Hager	513,377	Jan. 23	2730	663	66	615
Distillation. Apparatus for continuous	R. A. Chesebrough	524,704	Aug. 21	1262	311	68	923
Distilling and refining volatile substances and essential oils. Process of and apparatus for	A. M. Todd	515,889	Mar. 6	245	58	66	1499
Distilling apparatus	A. Lavy	519,087	May 1	254	60	67	584
Distilling apparatus	F. E. Wallace	515,413	Feb. 27	2381	590	66	1344
Distilling crude turpentine. Apparatus for	R. O. Carter	526,613	Sept. 25	2242	535	68	1601
Distilling spirits. Apparatus for	H. Clementson	526,437	Sept. 25	1972	470	68	1552
Distilling water. Apparatus for	A. J. Chase	530,015	Nov. 27	2659	{ 638 639	69	1183
Distilling water. Method of and apparatus for	H. F. Hodges and D. J. Havenstrite	520,525	May 29	2759	668	67	1108
Ditching and tile-laying machine	G. E. Blaine	516,750	Mar. 20	1702	403	66	1801
Ditching and tile-laying machines. Cutter-screw for	O. B. H. Hanneberg	530,687	Dec. 11	1092	265	69	1429
Ditching-machine	P. W. Anthony	512,085	Jan. 2	596	143	66	114
Ditching-machine	R. A. Carter	531,097	Dec. 18	1779	424	69	1568
Ditching-machine	W. L. Harvey	515,678	Feb. 27	2800	{ 698 699	66	1426
Ditching-machine	J. W. Humphreys	516,682	Mar. 20	1581	377	66	1780
Ditching-machine	C. W. and E. Jeschke	526,664	Oct. 2	326	80	69	62
Ditching-machine	G. M. Pilcher	513,824	Jan. 30	3482	858	66	789
Ditching-machine	L. A. Stanford	517,774	Apr. 3	604	{ 148 149	67	117
Ditching-machine. Traction	J. B. Hill	523,790	July 31	2809	{ 698 699	68	585
Ditching or grading apparatus	E. P. Fox	529,026	Nov. 13	915	217	69	832
Ditching-tool	D. C. Peat	528,607	Nov. 6	144	36	69	673
Dividers	A. Haff	528,668	Nov. 6	265	65	69	693
Diving apparatus	J. D. Cooper	530,398	Dec. 4	564	140	69	1318
Diving apparatus	J. and G. Day and J. Jenkins	521,208	June 12	809	190	67	1357
Dock. Dry	M. Moeser and R. Erpel	526,190	Sept. 18	1509	353	68	1450
Doll	F. B. Schultz	526,667	Sept. 25	2333	558	68	1618
Doll. Mechanical	D. S. McElroy	525,716	Sept. 11	689	159	68	1296
Door	R. Weidauer	520,174	May 22	2176	530	67	984
Door and hinge	W. Vaughan, Jr.	521,772	June 19	1825	435	67	1561
Door attachment	N. W. Cowdrey	528,323	Oct. 30	2791	673	69	573
Door bar-lock	T. H. Benninger	527,104	Oct. 9	700	171	63	146
Door-bolt	A. Angus	517,512	Apr. 3	150	35	67	32
Door bolt. Double	W. Johnston	519,657	May 8	1348	325	67	803
Door bolt. Jail	C. D. Hudgens	511,776	Jan. 2	53	13	66	13
Door-bolt socket	A. C. Jochmus and F. M. Boughton	526,924	Oct. 2	429	106	69	80
Door brace. Screen	A. F. Judd	515,340	Feb. 27	2261	560	66	1322
Door-check	C. H. Cameron	531,361	Dec. 25	2272	541	69	1675
Door-check	R. B. Carter	514,643	Feb. 13	1115	278	66	1081
Door-check	T. Curley	520,637	May 29	2941	711	67	1143
Door-check	E. Dredge	527,053	Oct. 9	626	152	69	132
Door-check	P. G. Emery	527,385	Oct. 9	1162	285	69	231
Door-check	S. Frisbie	530,101	Dec. 4	41	12	69	1222
Door-check	C. W. Hamshaw	531,116	Dec. 18	1814	431	69	1575
Door-check	G. W. Mallory	512,202	Jan. 2	785	191	66	149
Door-check	E. Orr	515,923	Mar. 6	298	70, 71	66	1509
Door-check	F. A. Phelps	526,164	Sept. 18	1462	342	68	1442
Door-check	E. E. Punzelt	523,648	July 24	2544	638	68	522
Door-check	C. F. Short	514,735	Feb. 13	1274	318	66	1111
Door-check	N. G. Sørensen	514,511	Feb. 13	897	228	66	1040
Door-check	J. Suter	522,091	June 26	2379	{ 572 573	67	1682
Door-check	H. V. Wertzberger	528,049	Oct. 23	2307	556	69	471
Door-check	J. Wolf	527,919	Oct. 23	2065	495	69	427
Door-check and buffer. Combined	J. P. Neeley	528,017	Oct. 23	2259	545	69	461
Door-check and closer	E. I. Blount	528,321	Oct. 30	2786	672	69	572
Door-check or closer	E. I. Blount	527,584	Oct. 16	1494	363	69	306
Door-check or closer	E. I. Blount	527,585	Oct. 16	1496	364	69	306
Door-check or closer	C. O. Case	528,853	Nov. 6	605	{ 143 144	69	756

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Door-check. Pneumatic.....	J. W. Ring.....	521,182	June 12	764	{ 178	67	1348
Door-check. Pneumatic.....	J. W. Wetmore.....	521,747	June 19	1763	{ 418	67	1551
Door-closer.....	F. R. Bauer.....	529,101	Nov. 13	1043	{ 251	69	856
Door-closer. Gravity.....	M. R. Hubbell.....	527,485	Oct. 16	1343	{ 327	69	280
Door-closing device. Automatic.....	C. Winckhofer.....	525,530	Sept. 11	899	{ 200	66	1327
Door. Coiled sliding.....	F. A. Schluns.....	514,966	Feb. 20	1637	{ 410	66	1195
Door-controller. Pneumatic.....	J. W. Gray.....	528,909	Nov. 6	720	{ 169	69	778
Door-controlling device.....	J. J. Kinsey.....	523,431	July 24	2172	{ 547	68	454
Door-fastener.....	H. Kappelle.....	515,494	Feb. 27	2506	{ 620	66	1367
Door-fastener.....	G. F. McCombs.....	521,037	June 5	502	{ 120	67	1287
Door-fastener.....	H. Saqui.....	529,963	Nov. 27	2546	{ 613	69	1159
Door-fastener.....	T. G. Selleck.....	517,173	Mar. 27	2423	{ 570	66	1955
Door-fender. Adjustable.....	I. A. Ritz.....	515,792	Mar. 6	105	{ 25	66	1473
Door. Fireproof.....	O. W. Norcross.....	526,732	Oct. 2	101	{ 25	69	21
Door. Flexible.....	E. Brown.....	528,358	Oct. 30	2949	{ 690	69	554
Door. Flexible.....	H. N. H. Lugin.....	520,065	May 22	1964	{ 480	67	946
Door. Flexible.....	A. S. Spaulding.....	520,089	May 22	2011	{ 491	67	955
Door. Flexible.....	A. S. Spaulding.....	531,227	Dec. 18	2028	{ 433	69	1614
Door. Grain.....	I. V. Kelly.....	522,019	June 26	2270	{ 544	67	1660
Door guide and stop.....	G. A. Colton.....	513,985	Feb. 6	20	{ 5	66	858
Door-hanger.....	W. F. Berry.....	526,961	Oct. 2	477	{ 118	69	90
Door-hanger.....	G. T. Biddle.....	511,929	Jan. 2	345	{ 80	66	66
Door-hanger.....	G. T. Biddle.....	529,777	Nov. 27	2224	{ 530	69	1100
Door-hanger.....	C. W. Bullard.....	529,642	Nov. 20	2006	{ 480	69	1051
Door-hanger.....	R. G. Davison.....	517,213	Mar. 27	2489	{ 585	66	1968
Door-hanger.....	H. L. Ferris.....	516,193	Mar. 13	753	{ 176	66	1609
Door-hanger.....	W. A. Hance.....	524,465	Aug. 14	868	{ 214	68	838
Door-hanger.....	W. F. Johnston.....	528,435	Oct. 30	2979	{ 720	69	607
Door-hanger.....	A. T. Kingsley.....	529,919	Nov. 27	2464	{ 594	69	1145
Door-hanger.....	J. G. and G. Lane.....	529,555	Nov. 20	1870	{ 445	69	1025
Door-hanger.....	T. C. Prouty.....	524,609	Aug. 14	1093	{ 270	68	879
Door-hanger.....	T. C. Prouty.....	526,659	Sept. 25	2319	{ 555	68	1615
Door-hanger.....	M. C. Richards.....	518,276	Apr. 17	1449	{ 362	67	298
Door-hanger.....	A. L. Swett.....	529,971	Nov. 27	2565	{ 618	69	1163
Door-hanger.....	A. O. Thornton.....	530,366	Dec. 4	514	{ 127	69	1309
Door-hanger stop.....	F. A. Austin.....	530,818	Dec. 11	1298	{ 314	69	1467
Door-hanger track-rail, track-rail joint, and track-rail bracket.....	M. McCawley and A. T. Kingsley..	530,952	Nov. 27	2733	{ 655	69	1197
Door-hanger wheel.....	E. Y. Moore.....	515,406	Feb. 27	2371	{ 588	66	1342
Door-hanger wheel.....	E. Y. Moore.....	516,398	Mar. 13	1092	{ 259	66	1671
Door-hanger wheel.....	J. A. Trimble.....	521,225	June 12	842	{ 197	67	1363
Door. Hinged sliding.....	A. Sinclair.....	523,690	July 31	2636	{ 654	68	504
Door-indicator.....	H. B. Diamond.....	519,699	May 15	1365	{ 330	67	821
Door. Interchangeable storm and screen.....	J. Deritis.....	529,520	Nov. 20	1815	{ 432	69	1015
Door lock. Sliding.....	W. T. W. Curl.....	516,592	Mar. 13	1417	{ 336	66	1732
Door lock. Sliding.....	A. Dillenback.....	520,415	May 29	2573	{ 622	67	1076
Door lock. Sliding.....	W. E. Johnson.....	527,609	Oct. 16	1531	{ 371	69	312
Door lock. Sliding.....	W. H. Kaldreider.....	526,232	Sept. 18	1582	{ 372	68	1464
Door lock. Sliding.....	O. S. King.....	512,714	Jan. 16	1633	{ 392	66	336
Door lock. Sliding.....	W. Lash.....	526,403	Sept. 25	1911	{ 454	68	1540
Door lock. Sliding.....	J. A. Loewer and J. G. Sieber.....	527,797	Oct. 23	1849	{ 444	69	388
Door lock. Sliding.....	E. J. Willard.....	512,139	Jan. 2	679	{ 163	66	130
Door opener and closer.....	G. Rischmuller.....	524,810	Aug. 21	1438	{ 352	68	955
Door-opener. Electric.....	H. F. Keil.....	522,733	July 10	968	{ 241	68	200
Door opener or closer. Folding.....	I. Engel.....	522,936	July 10	1303	{ 325	68	202
Door-operating device.....	W. C. Lucas.....	530,952	Dec. 18	1522	{ 360	69	1523
Door-operating device.....	J. Rawle.....	523,710	July 31	2676	{ 663	68	560
Door-operating device.....	J. Rawle.....	523,711	July 31	2677	{ 663	68	561
Door-operating device.....	C. L. Rice.....	526,636	Sept. 25	2273	{ 544	68	1008
Door-operating device.....	G. Rischmuller.....	524,769	Aug. 21	1375	{ 334	68	943
Door-operating device. Jail-cell.....	C. A. Krutsch.....	527,752	Oct. 16	1768	{ 426	69	356
Door or shutter. Fireproof.....	W. J. Giessler.....	530,410	Dec. 4	531	{ 145	69	1321
Door or window clamp.....	G. W. Lake.....	514,085	Feb. 6	173	{ 41	66	886
Door-plate.....	D. M. Scott.....	522,677	July 10	857	{ 213	68	181
Door-plate and memorandum-plate.....	T. White.....	514,977	Feb. 20	1655	{ 414	66	1198
Door-plate holder.....	L. C. Fisher.....	512,177	Jan. 2	745	{ 181	66	142
Door safety-catch.....	J. A. Weaver, Jr.....	526,881	Oct. 2	332	{ 87	69	66
Door-securer.....	A. B. Buckland.....	526,683	Oct. 2	21	{ 5	69	7
Door-securer.....	J. L. Frazier, M. W. Speulda, and N. Du Bois.....	511,840	Jan. 2	148	{ 37	66	31
Door-securer.....	O. B. Hoffman.....	525,418	Sept. 4	173	{ 44	68	1182
Door-securer.....	P. Provonsa.....	515,167	Feb. 20	1954	{ 487	66	1252
Door-securer.....	J. Rhino.....	512,218	Jan. 2	811	{ 197	66	154
Door-securer.....	F. J. Smith.....	521,870	June 26	1974	{ 477	67	1607
Door-securer.....	C. H. Yokey.....	512,572	Jan. 9	1298	{ 338	66	276
Door. Self-acting.....	C. Rondell.....	526,461	Sept. 25	2014	{ 479	68	1559
Door. Sliding.....	J. C. Schmohl.....	511,804	Jan. 2	89	{ 22, 23	66	20
Door. Sliding.....	L. H. Weaver.....	530,372	Dec. 4	522	{ 129	69	1310
Door-spring.....	A. D. Phelps.....	530,852	Dec. 11	1355	{ 323	69	1477
Door-spring.....	J. L. Wilson.....	520,282	May 22	2359	{ 572	67	1018
Door spring and check.....	H. W. Larsson.....	530,230	Dec. 4	274	{ 68	69	1265
Door spring and check.....	J. Robinson.....	513,621	Jan. 30	3162	{ 776	66	730
Door spring and check. Combined.....	R. Adams.....	525,643	Sept. 4	532	{ 129	68	1250
Door spring or check.....	H. W. Larsson.....	527,753	Oct. 16	1769	{ 426	69	356
Door-slop.....	C. O. Case.....	528,146	Oct. 30	2484	{ 601	69	518

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Door-stop	W. M. Coats	518,343	Apr. 17	1566	389	67	318
Door-stop	H. C. Lippincott	513,333	Jan. 23	2658	645	66	602
Door-strip. Automatic	W. N. Morrison	527,212	Oct. 9	869	211	69	177
Doors. Device for operating sliding	W. H. Brodie	531,150	Dec. 18	1830	446	69	1583
Doors. Electric releasing device for	S. H. Curwen	518,877	Apr. 24	2485	{ 616 617 }	{ 67 67 }	{ 498 498 }
Doors. Guide-bracket and wedge for sliding	W. W. Holmes	530,182	Dec. 4	187	46	69	1248
Doors, &c. Track or carrier for	G. E. Witt	520,199	May 22	2221	540	67	992
Dose-cup and bottle. Combined	M. O. Turner	525,753	Sept. 11	749	174	68	1300
Double-acting press	A. C. Campbell	526,592	Oct. 2	363	92, 93	69	69
Doubletree	F. M. Beaver	530,573	Dec. 11	896	220	69	1305
Doubletree	O. R. Winslow and H. King	531,581	Dec. 25	2648	634	69	1748
Doubletree. Vehicle	S. J. McDonald	525,994	Sept. 11	1172	267	68	1377
Doubling-frame stop-motion	E. Richards and R. Lucas	522,495	July 3	544	139	68	108
Doubling webs of fabric longitudinally. Machine for	S. G. Goss	517,693	Apr. 3	469	113	67	90
Doubling webs of fabric longitudinally. Mechanism for	E. T. and E. H. Marble	523,363	July 24	2056	517	68	433
Douche and bath contrivance. Washing	T. E. M. Bilow	513,173	Jan. 23	2407	581	66	552
Douche-bath	O. A. Graftstrom	515,468	Feb. 27	2468	611	66	1360
Dough-cutting machine	E. Dewerth	521,140	June 5	689	161	67	1321
Dough-dividing machine	F. H. Van Houten	524,363	Aug. 14	695	{ 169 170 }	{ 68 68 }	{ 804 804 }
Dough from cereals. Process of and apparatus for the production of	F. I. Gelinck	523,116	July 17	1625	407	68	339
Dough mixing or working machine	J. Adair	526,986	Oct. 2	517	{ 123 127 }	{ 69 69 }	{ 97 97 }
Dough molding and dividing machine	J. H. Althans and J. Rueckstinat	527,579	Oct. 16	1486	361	69	304
Dough-raiser and fruit-drier	S. Q. Duncan	526,028	Sept. 18	1225	283	68	1400
Dough-raising apparatus	J. Boudry	521,972	June 26	2178	523	67	1645
Dough rolling and cutting machine	W. F. Curry	516,299	Mar. 13	917	{ 215 216 223 224 }	{ 66 66 69 69 }	{ 1640 1640 1398 1398 }
Dough shaping and cutting machine	F. Dührkop	530,582	Dec. 11	912	{ 223 224 }	{ 69 69 }	{ 1398 1398 }
Dough-shaping machine	F. Dührkop	518,942	May 1	13	3	67	539
Dovetailing-machine	H. Farchmin	517,336	Mar. 27	2685	680	66	2006
Dovetailing-machine	W. McPherson	518,824	Apr. 24	2405	{ 595 596 }	{ 67 67 }	{ 482 482 }
Dovetailing-machine for preparing edges of parts of electrotype or stereotype plate blocks	E. C. Williams	531,241	Dec. 18	2051	489	69	1618
Doweling-machine	G. W. Bond	529,697	Nov. 27	2094	502	69	1077
Downdraft-kiln. Combination	F. W. Dennis	523,330	July 24	2008	505	68	425
Draft attachment	C. Matthews	529,800	Nov. 27	2362	540	69	1106
Draft-beam fastening	J. A. Markley	521,803	June 26	1871	448	67	1587
Draft-compelling device	B. W. Peel	526,939	Oct. 2	452	111	69	25
Draft-equalizer	W. Eikenbary	515,543	Feb. 27	2590	641	66	1384
Draft-equalizer	S. I. Larkins	512,039	Jan. 2	518	123	66	99
Draft-equalizer	S. I. Larkins	520,322	May 22	2420	589	67	1030
Draft-equalizer	R. N. Lawrence	512,831	Jan. 16	1863	441	66	380
Draft-equalizer	B. M. Le Grande	519,768	May 15	1473	357	67	840
Draft-equalizer	A. McDonald	529,294	Nov. 13	1381	332	69	916
Draft-equalizer	S. D. Poole	527,074	Oct. 9	651	158	69	137
Draft-equalizer	G. W. Raymond	528,111	Oct. 23	2418	585	69	491
Draft-equalizer	N. H. Roberts	524,790	Aug. 21	1404	343	68	949
Draft-equalizer	M. and A. Sattley	525,667	Sept. 4	582	139	68	1258
Draft-equalizer	H. Sturm	526,271	Sept. 18	1644	387	68	1476
Draft-equalizer	E. L. Thoms	525,873	Sept. 11	981	220	68	1342
Draft-equalizer	W. Wigham	514,105	Feb. 6	203	47	66	893
Draft-regulator	C. F. Kaul	526,492	Sept. 25	2058	{ 439 490 }	{ 68 68 }	{ 1567 1567 }
Draft-regulator	J. J. Lawler	515,591	Feb. 27	2663	661	66	1399
Drafting-instrument. Combination	G. W. Deats	515,075	Feb. 20	1805	456	66	1224
Drafting-table	J. H. Fry	516,089	Mar. 6	574	134	66	1559
Drafting-table. Folding	J. H. Fry	527,017	Oct. 2	567	137	69	107
Draftsman's instrument	O. F. Hill	531,186	Dec. 18	1945	462	69	1600
Drain	J. L. Steitz	514,784	Feb. 13	1352	{ 337 338 339 }	{ 66 66 66 }	{ 1126 1126 1126 }
Drain-testing apparatus	T. Grace	524,588	Aug. 14	1063	262	68	873
Drainage bin and chute	T. Craney	522,406	July 3	402	{ 102 103 }	{ 68 68 }	{ 80 80 }
Draining device	A. D. McGill	528,888	Nov. 6	666	160	69	768
Drainage system	P. Scanlon	520,146	May 22	2125	519	67	975
Draw-bar	M. M. Suppes	520,090	May 22	2102	491	67	955
Draw-bar attachment	M. J. Hoey	526,527	Sept. 25	2103	502	68	1576
Draw-bar guide	H. W. F. Jaeger	525,904	Sept. 11	1025	232	68	1350
Draw-bar mechanism	P. Brown	515,044	Feb. 20	1758	{ 443 444 }	{ 66 66 }	{ 1215 1215 }
Drawbridge-joint and operating mechanism	W. R. Mershon	530,234	Dec. 4	250	69, 70	69	1266
Drawer	A. Beretta	516,293	Mar. 13	908	214	66	1639
Drawer and shipping-box. Combined	J. G. Welsh	525,972	Sept. 11	1140	259	68	1371
Drawer-case	D. E. Hunter	526,014	Sept. 11	1200	275	68	1382
Drawer extension	H. C. Smith	524,225	Aug. 7	437	103	68	741
Drawer-guide	W. W. Tanner and T. W. Burch	526,509	Sept. 25	2079	495	68	1571
Drawer-lock	L. C. Brown	523,713	Nov. 6	332	61	69	707
Drawer support. Extension	J. H. Atkins	516,583	Mar. 13	1405	334	66	1730
Drawing apparatus. Perspective	H. Eppers	530,477	Dec. 4	687	172	69	1341
Drawing-board	A. C. Van Horn and E. E. Barney	527,134	Oct. 9	750	184	69	154
Drawing-frame. Electric stop-motion	E. and S. Tweedale and J. Smalley	517,778	Apr. 3	610	151	67	118
Drawing-instrument	H. Cole	530,680	Dec. 11	1081	263	69	1426
Drawing-instrument	E. L. Sanderson	523,733	July 31	2716	672	68	567
Drawing-instrument	G. Thomas	527,300	Oct. 9	1023	249	69	204
Drawing-pin	C. Müller	529,744	Nov. 27	2173	518	69	1090
Drawing-roll for machines for working fibrous materials	W. H. Goldsmith	512,651	Jan. 9	1533	367	66	302
Drawing-rolls for fibrous material	W. Hinchliffe	527,354	Oct. 16	1443	351	69	297

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Drawing-rolls for fibrous material. Metallic.	W. Hinchliffe	527,553	Oct. 16	1442	351	69	296
Dray stake-pocket	E. J. Schurmeier	515,796	Mar. 6	111	26, 27	66	1474
Dredge	E. S. Bennett	526,005	Sept. 11	1183	272	68	1386
Dredge-boom	W. B. Pless	512,898	Jan. 16	1981	470	66	402
Dredge-bucket	E. S. Bennett	516,697	Mar. 20	1605	382	66	1724
Dredge-bucket	A. W. Robinson	519,551	May 8	1115	267	67	762
Dredge-foot	E. Woods	512,083	Jan. 2	593	143	66	114
Dredge or other structures. Means for supporting	E. S. Bennett	527,741	Oct. 16	1747	422	69	352
Dredge. Steam-	L. Hussey	526,531	Sept. 25	2112	505 506	68	1577
Dredge. Steam vacuum-	L. Hussey	526,529	Sept. 25	2110	504	68	1576
Dredge. Steam vacuum-	L. Hussey	526,530	Sept. 25	2110	505	68	1577
Dredger	L. W. Bates	521,520	June 19	1450	346 347	67	1497
Dredger	S. P. Hedges	514,829	Feb. 13	1420	359	66	1140
Dredger	S. P. Hedges	523,291	July 31	2994	745	68	620
Dredger. Steam-vacuum	E. D. Harsen	514,598	Feb. 13	1048	262	66	1068
Dredger. Steam-vacuum	L. Hussey	523,838	July 31	2992	723 724 725	68	603
Dredgers, excavators, &c. Cutter for	L. W. Bates	526,514	Sept. 25	2088	497 498	68	1573
Dredgers. Hopper and valve for hopper-	A. G. Lyster	520,210	May 22	2240	545	67	995
Dredging apparatus	E. Chaquette	523,207	July 31	2845	707	68	592
Dredging apparatus	E. Chaquette	523,959	July 31	3124	777 778	68	645
Dredging apparatus	E. Chaquette	523,960	July 31	3129	779 780	68	646
Dredging apparatus	C. Gullmann	516,090	Mar. 6	575	134 135	66	1560
Dredging apparatus	F. A. Hyatt	528,433	Oct. 30	2976	720	69	606
Dredging apparatus. Rotary pump for	E. Chaquette	523,961	July 31	3132	780	68	646
Dredging-bucket	T. Symonds	514,788	Feb. 13	1358	339	66	1127
Dredging implement	C. Meier	522,375	Oct. 30	2875	697	69	589
Dredging-machine	J. A. Ball	530,675	Dec. 11	1071	260 261	69	1425
Dredging-machine	L. W. Bates	527,762	Oct. 23	1788	430	69	377
Dredging-machine	G. H. Titcomb	515,029	Feb. 20	1736	438	66	1212
Dredging-machine	G. H. Titcomb	515,379	Feb. 27	2330	578 579	66	1335
Dredging-machine	G. H. Titcomb	516,066	Mar. 6	541	126	66	1553
Dredging-machine and electrically-actuated bucket therefor	C. Upton	531,426	Dec. 25	2490	593	69	1717
Dredging or excavating apparatus	C. W. Hunt	512,825	Jan. 16	1850	438	66	377
Dress-goods rack	R. C. Parsons	520,494	May 29	2712	657	67	1100
Dress-hook	N. K. Gray	512,696	Jan. 16	1606	385	66	330
Dress-protector	O. H. Still	518,378	Apr. 17	1643	407	67	334
Dress-shield	R. Raphael	513,416	Jan. 23	2728	683	66	626
Dress-shield	E. M. Welcker	526,276	Sept. 18	1651	329	68	1478
Dresses for protecting hands of flowers. Attachment for ladies'	F. M. Fletcher	517,563	Apr. 3	251	58	67	49
Dresser, commode, &c	A. K. Hatteberg	514,929	Feb. 20	1582	397	66	1184
Dressing-case	H. Widdicomb	529,846	Nov. 27	2348	559	69	1124
Drier:							
See Clothes-drier.	Lumber-drier.						
Fiber-drier.	Paper-machine drier.						
Fruit-drier.	Rotary drier.						
Grain-drier.	Wool-drier.						
Letter-drier.							
Drier	A. Blatchly	519,694	May 15	1358	325 329	67	820
Drier	H. Bullock and C. E. Ward	529,778	Nov. 27	2225	530 531	69	1100
Drier	T. Craney	525,758	Sept. 11	758	176	68	1302
Drier	W. Harmon	512,547	Jan. 9	1362	329 330	66	269
Drier for cocoa, &c.	J. G. Elizondo	514,818	Feb. 13	1401	352 353	66	1136
Drill:							
See Brace-drill.	Radial drill.						
Coal-drill.	Ratchet-drill.						
Grain-drill.	Rock-drill.						
Metal-drill.	Track-drill.						
Mining-drill.							
Drill	D. Baker	529,996	Nov. 27	2620	629	69	1176
Drill	C. M. Lindholm	526,577	Sept. 25	2180	521	68	1589
Drill bit and reamer for earth-boring	A. G. P. Creed	513,987	Feb. 6	23	6	66	859
Drill-bits, &c. Tool for handling	J. Barrett	527,103	Oct. 9	696	171	69	145
Drill for wells, &c.	C. E. Wyman	519,012	May 1	118	22, 29	67	558
Drill-head	A. J. Cooper	526,297	Sept. 18	1696	400	68	1487
Drill-holding machine. Automatic	J. B. Pendergrass and K. F. Rice	516,063	Mar. 6	538	125	66	1553
Drill-jar	W. H. Phillips	511,794	Jan. 2	77	19	66	17
Drill-press	J. N. Barr	512,355	Jan. 9	1030	252	66	206
Drill-rod grab	W. H. Wisberd	526,358	Sept. 18	1803	427	68	1508
Drill-rope protector	J. H. Koch	525,605	Sept. 4	474	114	68	1240
Drills, &c. Adjusting device for	W. J. Mewer	529,039	Nov. 13	936	221	69	836
Drills. Die for the manufacture of twist-	J. C. Taft	518,205	Apr. 10	1328	332	67	260
Drills. Rotary support for hand-	J. W. Duff	529,023	Nov. 13	910	215 216	69	831
Drilling apparatus	J. Conner	523,787	July 31	2805	697	68	584
Drilling-machine	W. F. Barnes	516,150	Mar. 6	669	157	66	1578
Drilling-machine	C. H. Baush	515,988	Mar. 6	415	96	66	1529
Drilling-machine	C. H. Baush	515,989	Mar. 6	417	96	66	1530
Drilling-machine	C. A. Bentrup	527,929	Oct. 23	2022	498	69	430

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Drilling-machine.....	J. and R. Böhm.....	518,803	Apr. 24	2371	587	67	476
Drilling-machine.....	J. W. Brown, Jr.....	518,176	Apr. 10	1264	318	67	246
Drilling-machine.....	R. D. Clapp.....	527,321	Oct. 9	1058	250	69	210
Drilling-machine.....	R. M. Downie.....	527,237	Oct. 9	913	221	69	186
Drilling-machine.....	T. Forstner.....	512,285	Jan. 9	920	224	66	186
Drilling-machine.....	T. Gilpin and L. McHargue.....	528,472	Oct. 30	3043	739	69	619
Drilling-machine.....	A. T. Goddard.....	520,142	May 22	2118	517	67	973
Drilling-machine.....	D. Jones.....	529,329	Nov. 13	1439	{ 346 347 901 902 }	69	929
Drilling-machine.....	J. Jopling.....	513,937	Jan. 30	3656	{ 901 902 }	66	825
Drilling-machine.....	J. P. Lavigne.....	515,237	Feb. 20	2073	516	66	1274
Drilling-machine.....	W. P. Norton.....	528,321	Oct. 30	2886	699	69	590
Drilling-machine.....	L. Reichert.....	517,298	Mar. 27	2627	616	66	1994
Drilling-machine.....	N. Remmel.....	525,742	Sept. 11	733	169	68	1298
Drilling-machine.....	J. Trounson.....	516,952	Mar. 20	2024	479	66	1863
Drilling-machine.....	J. Sullivan, Jr.....	527,462	Oct. 16	1301	318	69	272
Drilling-machine.....	F. W. Williams.....	530,979	Dec. 18	1574	373	69	1531
Drilling-machine cutting-bit.....	J. T. Snyder.....	513,541	Jan. 30	3030	747	66	706
Drilling-machine. Horizontal.....	F. H. Richards.....	515,129	Feb. 20	1888	{ 474 475 }	66	1239
Drilling-machine. Portable.....	W. J. McGehe.....	520,118	May 22	2056	503	67	964
Drilling-machines. Portable and variable shafting for.....	W. Ross.....	512,486	Jan. 9	1278	307	66	253
Drilling or boring machines. Holdfast for.....	W. Lewis.....	512,198	Jan. 2	778	190	66	147
Drilling. Percussion apparatus for.....	J. M. Ross.....	527,078	Oct. 9	637	160	69	138
Drilling-swivel. Ball-bearing.....	W. W. Swan.....	521,942	June 26	2119	508	67	1635
Drinking-fountain for fowls.....	A. L. Higgins.....	516,600	Mar. 13	1434	340	66	1735
Drinking-fountain for fowls.....	A. L. Higgins.....	516,637	Mar. 13	1496	356	66	1747
Drinking-fountain for poultry.....	G. W. Dodder.....	513,561	Jan. 30	3068	754	66	712
Drive-wheel. Electrically-propelled.....	C. G. Anderson.....	513,859	Jan. 30	3546	873	66	803
Driving-gear.....	T. C. Robinson, Jr.....	517,303	Mar. 27	2635	619	66	1996
Driving-gear.....	A. B. Roney.....	514,891	Feb. 13	1523	381	66	1158
Driving mechanism.....	P. Ashberry and W. Barnes.....	519,313	May 8	682	166	67	683
Drop-lights. Canopy for counterweight.....	A. Zempler.....	529,055	Nov. 13	965	228	69	841
Drop-press.....	G. W. Peck.....	518,353	Apr. 17	1598	395	67	325
Drum.....	C. Koeth.....	519,914	May 15	1707	{ 416 417 }	67	885
Drum and cymbal pedal or beater.....	W. J. Rappold.....	516,612	Mar. 13	1454	344	66	1739
Drum. Heating.....	H. I. Grennell.....	525,896	Sept. 11	1014	229	68	1348
Drum. Heating.....	W. H. B. Lyons.....	525,990	Sept. 11	1163	264	68	1375
Drum. Heating.....	J. E. Newhouse.....	529,405	Nov. 20	1591	378	69	976
Drum or radiator. Heating.....	J. L. Reid.....	522,534	July 3	609	156	68	120
Drum snare device.....	E. A. Longee.....	521,379	June 12	1119	264	67	1416
Dry-air closet.....	G. R. Stotes.....	523,379	July 24	2081	524	68	438
Dry battery.....	J. I. Solomon.....	525,235	Aug. 28	2191	535	68	1104
Dry closet and urinal system.....	W. W. Ensign.....	525,808	Sept. 11	847	{ 192 193 }	68	1318
Dry closet or commode.....	J. L. Marvin.....	518,616	Apr. 24	2034	506	67	418
Dry-goods board.....	G. Tetreau.....	518,379	Apr. 17	1649	407	67	334
Dry-kiln.....	W. A. Leary.....	514,832	Feb. 13	1428	360	66	1141
Dry-kiln.....	W. P. Murphy.....	515,604	Feb. 27	2632	{ 666 667 }	66	1403
Dry-kiln for pottery.....	J. C. Titus.....	520,869	June 5	208	47	67	1335
Dry-plates. Apparatus for exposing, developing, and washing.....	L. Nievsky.....	524,395	Aug. 14	758	185	68	817
Drying and cooling apparatus for grain, &c.....	G. W. Bisbee.....	515,513	Feb. 27	2532	{ 627 628 }	66	1372
Drying apparatus.....	B. W. and B. S. Foster.....	524,039	Aug. 7	117	25, 26	68	683
Drying apparatus.....	L. M. Larsson and C. J. Bergström.....	515,913	Mar. 6	282	66	66	1506
Drying articles.....	H. D. Williams.....	528,496	Oct. 30	3087	749	69	627
Drying barley, malt, &c. Apparatus for.....	J. White.....	513,694	Jan. 30	3286	809	66	752
Drying-chambers. Apparatus for hanging webs in folds in.....	W. Mather and J. Christie.....	518,508	Apr. 17	1859	461	67	372
Drying-cylinder.....	A. G. Paul.....	526,734	Oct. 2	106	26	69	22
Drying-cylinder for textile machinery.....	W. C. Mackinney.....	529,038	Nov. 13	934	221	69	836
Drying cylinder or drum.....	W. C. Mackinney.....	514,760	Feb. 13	1312	{ 326 327 }	66	1118
Drying-frame.....	A. C. Sharpell.....	528,991	Nov. 13	859	204	69	823
Drying-kiln.....	W. G. Galloway.....	526,349	Sept. 18	1778	422	68	1504
Drying-kiln.....	W. G. Galloway.....	526,350	Sept. 18	1780	422	68	1504
Drying-kiln.....	A. and P. Kimball.....	517,700	Apr. 3	480	115	67	92
Drying-kiln.....	E. A. Kinney and J. S. Hobby.....	513,188	Jan. 23	2427	566	66	556
Drying-kiln.....	L. Moore.....	524,598	Aug. 14	1077	266	68	876
Drying-kiln.....	C. H. Seaman.....	519,138	May 1	349	83	67	605
Drying-machine.....	F. E. Burlingame.....	522,646	July 10	811	202	68	172
Drying-machine.....	J. B. Dobson.....	513,896	Jan. 30	3604	888	66	814
Drying-machine.....	P. C. Hewitt.....	526,228	Sept. 18	1577	370	68	1463
Drying-machine.....	J. K. Proctor.....	525,921	Sept. 11	1052	{ 238 239 }	68	1354
Drying-machine.....	J. K. Proctor. (Reissue).....	11,460	Dec. 25	2714	{ 650 651 }	69	1762
Drying raw or prepared goods. Apparatus for.....	A. Rübenkamp.....	528,807	Nov. 6	508	{ 122 123 }	69	738
Drying tea, sugar, &c. Apparatus for.....	E. Robinson.....	515,446	Feb. 27	2434	603	66	1354
Dumb-waiters. Electrical appliance for.....	J. H. Roberts.....	517,169	Mar. 27	2416	{ 568 569 }	66	1953
Dumping apparatus.....	W. H. Barrett.....	513,862	Jan. 30	3553	875	66	804
Dumping apparatus.....	T. Long.....	527,118	Oct. 9	721	177	69	149
Dumping apparatus.....	T. Long.....	527,119	Oct. 9	724	178	69	149
Dumping-boat.....	W. McMahon.....	525,794	Sept. 11	820	187	68	1314
Dumping-cage.....	J. N. Wright.....	529,327	Nov. 13	1263	304	69	894
Dumping device.....	T. S. Miller.....	525,084	Aug. 28	1938	474	68	1060
Dumping-incline.....	J. O. Wright.....	528,753	Nov. 6	404	97, 98	69	720

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Dumping-rack	W. Underwood and C. Prall	515,266	Feb. 20	2121	526	66	1263
Duplex burner	T. P. Evans	527,957	Oct. 23	2144	516	69	442
Duplex engine	E. E. Clark	513,303	Jan. 23	2618	{ 634 635	66	594
Duplicating apparatus	I. S. Haynes	530,771	Dec. 11	1229	298	69	1454
Duplicating-apparatus frame	E. S. Walker	516,139	Mar. 6	649	151	66	1574
Dust and shavings collector	G. J. B. Skinner	515,259	Feb. 20	2109	523	66	1281
Dust and water proof protector for shelf goods. Combined	N. J. Brandeberry	515,141	Feb. 20	1910	460	66	1244
Dust-arrester	H. A. Hueffner and L. Lash	519,958	May 15	1777	{ 435 436	67	898
Dust-arrester	C. F. Verrell	522,923	July 10	1281	317	68	253
Dust-arrester	A. Volm	526,334	Sept. 18	1755	416	68	1499
Dust-bin, dust-cart, &c	F. S. Salberg	530,057	Nov. 27	2740	657	69	1198
Dust-cloth holder or picture-hanger	S. S. Dreisbach	512,688	Jan. 16	1595	383	66	328
Dust-collector	A. C. Brantingham	527,935	Oct. 23	2095	502	69	432
Dust-collector	A. C. Brantingham	527,936	Oct. 23	2097	503	69	433
Dust-collector	A. C. Brantingham	527,937	Oct. 23	2100	503	69	433
Dust-collector	A. C. Brantingham	527,939	Oct. 23	2105	{ 504 505	69	434
Dust-collector	A. C. Brantingham	527,940	Oct. 23	2106	505	69	434
Dust-collector	E. R. Draver	521,604	June 19	1523	{ 356 357	67	1504
Dust-collector	E. R. Draver	531,517	Dec. 25	2545	609	69	1727
Dust-collector	J. F. Gent	531,414	Dec. 25	2358	{ 562 563	69	1692
Dust-collector	J. J. Gerard	512,247	Jan. 2	854	{ 206 207	66	161
Dust-collector	M. Harmon	515,767	Mar. 6	67	16	66	1466
Dust-collector	A. Heine	523,652	July 24	2553	640	68	523
Dust-collector	L. S. Hogeboom	530,642	Dec. 11	1018	249	69	1416
Dust-collector	R. McWilliams	527,341	Oct. 9	1087	263	69	216
Dust-collector	J. K. Miller	513,434	Jan. 23	2810	689	66	630
Dust-collector	W. P. Thompson and P. Van Gelder	522,769	July 10	1042	257	68	212
Dust-collector	G. S. Wilson	516,171	Mar. 6	703	{ 165 166	66	1584
Dust collector and separator	M. F. Gale	516,371	Mar. 13	1050	249	66	1663
Dust-inhibitor	J. L. King	522,989	July 17	1405	350	68	297
Dust or shavings collector	H. L. Day	513,090	Jan. 23	2268	548	66	524
Dust or soot collecting machine	P. Van Gelder and W. P. Thompson	522,700	July 10	895	221	68	183
Dust-pan	M. Côté	521,949	June 26	2141	512	67	1639
Dust-pan	G. H. Gere	531,177	Dec. 18	1932	459	69	1597
Dust-pan	L. A. Powers	518,273	Apr. 17	1445	361	67	297
Dust-pan	J. Reniker	521,044	June 5	524	123	67	1292
Dust-pan attachment	R. B. Adams	515,036	Feb. 20	1749	442	66	1213
Dust-separator or spark-arrester	T. Lee	525,389	Sept. 4	118	31	68	1172
Duster	G. W. Griswold	513,390	Jan. 23	2750	670	66	619
Duster	E. Nation	521,174	June 12	752	177	67	1347
Duster or polishing-cloth. Woven	D. Scott	525,669	Sept. 4	585	...	68	1259
Dwelling	G. T. Tilden	514,789	Feb. 13	1359	{ 339 340	66	1127
Dye. Azo	P. Julius	525,656	Sept. 4	564	...	68	1255
Dye. Azo	P. Julius	525,657	Sept. 4	565	...	68	1255
Dye. Azo	M. Ulrich and J. Bammann	524,005	Aug. 7	62	...	68	673
Dye. Basic yellow	E. Schleicher	516,577	Mar. 13	1397	...	66	1729
Dye. Basic yellow	A. Weinberg	515,100	Feb. 20	1837	...	66	1231
Dye. Black	R. Kirchhoff	516,604	Mar. 13	1441	...	66	1737
Dye. Black	R. Vidal	523,138	July 17	1671	...	68	347
Dye. Black azo	A. Weinberg	525,245	Aug. 28	2206	...	68	1107
Dye. Black azo	A. Weinberg	526,763	Oct. 2	159	...	69	31
Dye. Black disazo	C. Bülow	524,665	Aug. 14	1195	...	68	898
Dye. Blue	O. Bally	524,235	Aug. 7	452	...	68	744
Dye. Blue	J. Bierer and C. De la Harpe	531,148	Dec. 18	1877	...	69	1587
Dye. Blue	C. Duisberg	525,492	Sept. 4	287	...	68	1205
Dye. Blue	E. Elsaesser	524,677	Aug. 14	1214	...	68	901
Dye. Blue	W. Herzberg and O. Weber	522,897	July 10	1233	...	68	249
Dye. Blue	B. Heymann	524,322	Aug. 14	605	...	68	790
Dye. Blue	B. Heymann	524,323	Aug. 14	606	...	68	790
Dye. Blue	R. Knietsch	524,256	Aug. 7	456	...	68	749
Dye. Blue	K. Krekeler and P. Kraus	518,458	Apr. 17	1779	...	67	358
Dye. Blue	M. Moeller	521,985	June 26	2215	...	67	1651
Dye. Blue	M. Moeller	521,986	June 26	2215	...	67	1651
Dye. Blue	O. Nastvogel and F. Reingruber	517,473	Apr. 3	98	...	67	21
Dye. Blue	J. Schmid and J. Bachelut	519,971	May 15	1804	...	67	902
Dye. Blue	M. Ulrich and J. Bammann	512,493	Jan. 9	1288	...	66	255
Dye. Blue	R. Bohn	519,229	May 1	520	...	67	638
Dye. Blue alizarin	J. Schmid and J. Bachelut	525,627	Sept. 4	510	...	68	1246
Dye. Blue basic	T. Diehl	512,167	Jan. 2	734	...	66	140
Dye. Blue-black	J. Schmid	525,626	Sept. 4	509	...	68	1246
Dye. Blue-black disazo	J. J. Brack	516,757	Mar. 20	1710	...	66	1802
Dye. Blue tetrazo	J. J. Brack	516,758	Mar. 20	1711	...	66	1802
Dye. Blue tetrazo	J. J. Brack	516,760	Mar. 20	1713	...	66	1802
Dye. Blue tetrazo	C. O. Müller	524,069	Aug. 7	167	...	68	693
Dye. Blue tetrazo	C. O. Müller	524,070	Aug. 7	169	...	68	693
Dye. Brown	M. Ulrich, J. Bammann, and M. Herzberg	515,381	Feb. 27	2334	...	66	1336
Dye. Brown azo	M. Hoffmann and C. Krohn	514,931	Feb. 20	1584	...	66	1185
Dye. Brown azo	C. Rudolph	516,380	Mar. 13	1066	...	66	1666
Dye. Brown petroleum	H. A. Frasch	519,036	May 1	159	...	67	567
Dye. Brown petroleum nitro	H. A. Frasch	518,991	May 1	88	...	67	552
Dye. Crimson azo	R. Kirchhoff	512,116	Jan. 2	648	...	66	124
Dye. Disazo dark-green	M. Hoffmann and C. F. Daimler	514,599	Feb. 11	1050	...	66	1068
Dye from amidophenolsulfo-acid. Azo	C. Rudolph	516,381	Mar. 13	1067	...	66	1666
Dye. Gray	A. Israel and K. Pathe	515,339	Feb. 27	2260	...	66	1322

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Dye. Gray azo	M. Hoffmann and C. Krohn	516,233	Mar. 13	770	66	1613
Dye. Manufacture of yellow and orange	F. Muhlert	525,965	Nov. 13	820	69	816
Dye. Orange	C. L. Müller	524,262	Aug. 7	492	.....	68	750
Dye. Orange disazo	C. L. Müller	524,261	Aug. 7	491	.....	68	750
Dye. Petroleum	H. A. Frasch	518,992	May 1	90	.....	67	552
Dye. Polyazo	J. J. Brack	515,897	Mar. 6	259	.....	66	1502
Dye. Polyazo yellow	J. J. Brack	519,522	May 8	1070	.....	67	754
Dye. Polyazo yellowish	J. J. Brack	519,523	May 8	1072	.....	67	754
Dye. Red	H. A. Bernthsen	516,584	Mar. 13	1406	.....	66	1730
Dye. Red azo	A. G. Green	515,764	Mar. 6	63	.....	66	1465
Dye. Red rhodamin	H. A. Bernthsen	516,585	Mar. 13	1407	.....	66	1730
Dye. Red tetrazo	J. J. Brack	516,756	Mar. 20	1709	.....	66	1802
Dye. Red tetrazo	J. J. Brack	516,759	Mar. 20	1712	.....	66	1802
Dye. Rhodamin	M. Ceresole	516,588	Mar. 13	1112	.....	66	1731
Dye. Rhodamin	M. Ceresole	516,589	Mar. 13	1114	.....	66	1731
Dye. Safranin azo naphthol	P. Julius	524,253	Aug. 7	481	.....	68	749
Dye. Substantive blue	H. A. Bernthsen and P. Julius	521,085	June 5	615	.....	67	1308
Dye. Substantive blue	C. Schraube	524,220	Aug. 7	431	.....	68	740
Dye. Substantive red	J. J. Brack	531,149	Dec. 18	1879	.....	69	1588
Dye. Substantive violet	H. A. Bernthsen and P. Julius	521,096	June 5	616	.....	67	1308
Dye. Violet-red	C. Schraube and E. Romig	524,222	Aug. 7	433	.....	68	741
Dye. Yellow tetrazo	J. J. Brack	516,468	Mar. 13	1311	.....	66	1694
Dyeing	C. Duisberg and P. Ott	523,809	July 31	2849	.....	68	593
Dyeing	M. E. Waldstein and A. H. Peter	523,560	July 24	2403	.....	68	495
Dyeing anilin-black	F. V. Kallab	529,498	Nov. 20	1771	.....	69	1007
Dyeing apparatus	E. Desté	512,949	Jan. 16	2068	490	66	417
Dyeing apparatus	A. Dréze	518,228	Apr. 17	1372	344	67	284
Dyeing apparatus	E. Masurel	523,047	July 17	1502	{ 374 375 }	68	315
Dyeing apparatus	J. Refitt	521,816	June 26	1891	453	67	1591
Dyeing apparatus	E. Turnbull	512,922	Jan. 16	2024	480	66	409
Dyeing apparatus	L. Weldon	514,743	Feb. 13	1288	321	66	1114
Dyeing apparatus	E., Sr., N. O., and E. Woodcock, Jr.	511,985	Jan. 2	426	{ 99 100 101 }	66	82
Dyeing, &c. Apparatus for	A. Graemiger and W. T. Whitehead	511,945	Jan. 2	367	86	66	70
Dyeing by the aid of paramidodiphenylamin	A. Weinberg	517,533	Apr. 3	190	.....	67	38
Dyeing-machine	M. Bacon	528,581	Nov. 6	101	25, 26	69	664
Dyeing-machine	J. M. Collins	525,534	Sept. 4	357	88	68	1217
Dyeing-machine	G. H. Craven	519,323	May 8	704	{ 173 174 }	67	687
Dyeing-machine	L. Weldon	529,539	Nov. 20	1846	439	69	1021
Dyeing-machine	L. Weldon	531,350	Dec. 25	2247	536	69	1670
Dyeing slivers, &c., direct from combs. Machine for	J. A. J. Florin-Leclercq	530,831	Dec. 11	1318	317	69	1471
Dyer's vat	T. A. Harris	513,321	Jan. 23	2642	640	66	598
Dynamite	H. A. Callahan	525,188	Aug. 28	2125	.....	68	1092
Dynamite and making same	W. Y. Rochester and J. McArthur	517,396	Mar. 27	2820	.....	66	2033
Dynamo. Alternating	J. J. Wood	514,140	Feb. 6	256	63, 64	66	902
Dynamo. Alternating-current	J. F. Kelly	518,740	Apr. 24	2273	564	67	459
Dynamo. Alternating-current	J. J. Wood	512,424	Jan. 9	1157	{ 280 281 282 }	66	230
Dynamo and motor	M. Waddell	514,047	Feb. 6	115	27	66	875
Dynamo-brush	W. H. Fleming	513,611	Jan. 30	3143	772	66	726
Dynamo. Constant-current	W. H. Elkins	519,858	May 15	1623	395	67	869
Dynamo current-collector	C. R. Roberts	515,613	Feb. 27	2698	670	66	1406
Dynamo or electric motor	L. Gutmann	515,216	Feb. 20	2031	{ 507 508 }	66	1267
Dynamo-regulator	J. Van Vleck	526,879	Oct. 2	348	86	69	65
Dynamo-regulator	J. Van Vleck	530,465	Dec. 4	669	166	69	1338
Dynamo-regulator. Automatic	H. D. Symmes	524,845	Aug. 21	1507	368	68	966
Dynamo. Self-regulating	I. N. Lewis	516,497	Mar. 13	1259	301	66	1703
Dynamo. Steam-turbine	J. F. McElroy	525,390	Sept. 4	121	31	68	1172
Dynamo voltage-regulator	M. P. Ryder	526,583	Sept. 25	2188	523	68	1591
Dynamos and their exciters. Connection between separately-excited	J. J. Wood	512,425	Jan. 9	1164	282	66	232
Dynamos from car-axles. Means for driving	W. Biddle	526,432	Sept. 25	1962	468	68	1550
Dynamos. Means for equalizing electromotive force of	M. Moskowit	525,993	Sept. 11	1170	{ 266 267 }	68	1376
Dynamos. Metal brush for	W. von Brancke	527,766	Oct. 23	1792	432	69	378
Dynamos on car-trucks. Mounting	W. Biddle	523,453	July 24	2319	557	68	461
Dynamos to car-axles. Connecting	W. Biddle and P. Kennedy	517,997	Apr. 10	975	242	67	196
Dynamometer	J. A. Cross	517,439	Apr. 3	29	7	67	8
Dynamometer	R. J. Rolifson	531,006	Dec. 18	1621	{ 384 385 }	69	1540
Ear for buckets, &c	M. F. Robeson	519,874	May 15	1651	402	67	874
Ear-jewels. Attachment for holding	G. H. Tilford and A. F. Bennett	521,192	June 12	781	183	67	1352
Ear-muff	I. B. Kleiwert	529,176	Nov. 13	1179	284	69	880
Ear piercer and ring. Combined	J. Hubash	511,952	Jan. 2	382	89	66	72
Ear-protector	C. Jung	520,785	June 5	42	10	67	1205
Ear-ring	C. Babcock	527,398	Oct. 16	1189	292	69	249
Ear-ring	J. Bonner	527,359	Oct. 9	1118	273	69	222
Ear-ring	L. Mann	512,835	Jan. 16	1668	442	66	380
Ear-ring	G. T. Woglom	528,197	Oct. 30	2570	622	69	533
Ear-trumpet	J. Prince	525,058	Aug. 23	1293	463	68	1052
Earth, ores, &c. Device for transferring	C. G. Collins	512,865	Jan. 16	1930	456	66	392
Earthenware articles. Apparatus for molding	J. Meir	514,373	Feb. 6	670	169	66	979
Earthenware articles. Machine for making hollow	J. P. Guy	516,969	Mar. 20	2050	485	66	1868
Earthenware vessels. Die for the manufacture of	N. W. Boch	520,294	May 22	2376	577	67	1022
Easel	H. F. Beecher	516,425	Mar. 13	1134	270	66	1630
Easel	G. Faint	518,544	Apr. 17	1919	474	67	282
Easel	H. H. Lursen and C. W. Wood	526,997	Oct. 2	403	100	69	75
Easel	G. W. McCann	513,195	Jan. 23	2441	589	66	558
Eaves-trough	A. C. Kanneberg	531,044	Dec. 18	1688	400	69	1533

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Eaves-trough	T. C. Keller	520,993	June 5	433	104	67	1275
Eaves-trough hanger	F. E. Albro	521,357	June 12	1086	255	67	1409
Eaves-trough hanger	H. A. Berger	521,523	June 19	1390	322	67	1430
Eaves-trough hanger	A. R. Lewis	514,758	Feb. 13	1310	326	66	1118
Eaves-trough hanger	C. Lumm	524,257	Aug. 7	483	113	63	749
Eaves-trough hanger	S. Silberstein	524,186	Aug. 7	369	87	68	729
Eaves-trough hanger	D. Soames	523,243	July 17	1859	467	68	380
Eaves-trough iron	O. T. Roberts	516,576	Mar. 13	1395	332	66	1728
Eccentric	F. M. Margach	515,349	Feb. 27	2279	564	66	1325
Eccentric surfaces. Machine for finishing	P. Shellenback	526,639	Sept. 25	2277	545	63	1609
Ecraseur	M. McNailey	529,936	Nov. 27	2429	600	69	1149
Ecraseur	G. W. Teufel	519,708	May 15	1527	372	67	851
Edger. Bevel	S. H. Randall	524,767	Aug. 21	1371	334	68	942
Educational appliance	A. Bechmann	521,360	June 12	1090	256	67	1410
Educational appliance	L. W. Musser	528,010	Oct. 25	2247	542	69	459
Educational appliance	A. Patton	530,450	Dec. 4	642	160	69	1333
Educator. Question and answer	W. R. Fearn	523,338	July 24	2024	509	68	428
Egg-beater	C. D. Weeks	529,764	Nov. 27	2205	526	69	1096
Egg-beater, &c	L. Mohr and H. Perk	516,214	Mar. 13	787	183	66	1616
Egg-beater	J. F. Renn	515,249	Feb. 20	2091	519	66	1278
Egg-beater, &c	A. J. Saltzman	522,944	July 10	1318	328	68	265
Egg-beater	W. A. Van Deusen	516,415	Mar. 13	1118	265	66	1677
Egg-carrier	F. E., C. A., and J. H. Ten Eyck	528,187	Oct. 30	2548	618	69	530
Egg-case	H. C. Herr	529,173	Nov. 13	1171	282	69	879
Egg-case	T. F. W. Schmidt	518,899	Apr. 24	2530	625	67	507
Egg-case. Folding	H. E. McKinney	529,403	Nov. 20	1588	378	69	975
Egg-case. Folding	O. W. McNeill	524,727	Aug. 21	1305	319	68	930
Egg-case or shipping-crate. Folding	C. B. Proctor	525,157	Aug. 28	2064	503	68	1032
Egg-crate	J. R. Oliver	518,893	Apr. 24	2523	623	67	506
Egg-crate	J. West	514,051	Feb. 6	121	28	66	876
Egg-fillers. Machine for making	H. E. Herr	529,172	Nov. 13	1165	280	69	878
Egg-preserving apparatus	E. H. Layman	517,463	Apr. 3	85	18	67	18
Egg-preserving case	J. H. Bowley	520,252	May 22	2309	560	67	1009
Egg-tester	E. Hulett	516,630	Mar. 13	1489	353	66	1746
Egg-tray	F. F. Bischoff	518,341	Apr. 17	1562	358	67	318
Eggs. Compound for and method of preserving	F. M. Underwood	520,549	May 29	2799	676	67	1116
Ejecting apparatus	A. Klinger	523,581	July 24	2435	611	68	501
Ejector and firing-pin operated by mainspring	C. A. Young and S. H. Bartou	523,845	July 31	2922	728	68	606
Ejector and mainspring mechanism	J. A. Rosenberg and J. Hurst	519,552	May 8	1116	268	67	762
Ejector. Fluid	N. Power	519,618	May 8	1232	296	67	783
Ejector. Water	J. H. McGowan	519,728	May 15	1413	341	67	829
Elastic fabric	A. Straus	526,546	Sept. 25	2133	511	68	1581
Elastic fabric	G. C. Moore	519,727	May 15	1412	341	67	829
Elastic fluid under pressure. Apparatus for generating	E. Langen	525,271	Aug. 28	2240	546	68	1114
Elastic materials. Device for closing breaks in	C. L. Dreher	513,990	Feb. 6	28	6	66	860
Elastic or plastic composition	J. Pattigier	525,086	Aug. 28	1944	488	68	1061
Elastic washer	W. Heiser	524,851	Aug. 21	1516	370	68	968
Elbow. Metal-covered	E. T. Greenfield	517,276	Mar. 27	2585	606	66	1926
Electric accumulator or secondary battery	A. J. Smith	519,482	May 8	981	237	67	737
Electric alarm	S. T. Sanders	514,775	Feb. 13	1335	334	66	1123
Electric alarm	F. Sauer and C. Hentzschel	514,202	Feb. 6	388	92	66	926
Electric alarm	D. S. Schureman	513,829	Jan. 30	3494	860	66	792
Electric apparatus. Coin-operated	J. H. Elfering	528,911	Nov. 6	723	170	69	778
Electric apparatus. Cooling	W. S. Moody	516,829	Mar. 20	1816	430	66	1823
Electric-arc-light fixture	S. Bergmann	514,058	Feb. 6	129	30	66	878
Electric-arc-lighting system	D. Higham	520,232	May 22	2272	553	67	1001
Electric battery	F. Bayer	514,115	Feb. 6	216	50	66	895
Electric battery	W. W. Burnham	520,033	May 22	1911	468	67	937
Electric battery	L. Drescher	525,491	Sept. 4	236	71	68	1204
Electric battery	F. Dubero and P. Mohrdieck	521,260	June 12	903	213	67	1374
Electric battery	S. H. Hogsgson	520,429	May 29	2603	630	67	1051
Electric battery	M. E. Smith and M. F. Geer	527,298	Oct. 9	1020	248	69	204
Electric cable	T. J. Dewees	515,892	Mar. 6	150	37	66	1481
Electric cable	T. J. Dewees	527,414	Oct. 16	1215	297	69	254
Electric cable	T. Guillaume	514,849	Feb. 13	1459	367	66	1147
Electric cable	T. Guillaume	514,925	Feb. 20	1577	396	66	1133
Electric cable	T. Guillaume	531,614	Dec. 25	2706	649	69	1760
Electric-cable joint	T. C. Lee	516,161	Mar. 6	687	162	66	1581
Electric calling apparatus	D. H. Rice	517,299	Mar. 27	2628	617	66	1994
Electric circuit	J. W. Marsh	529,559	Nov. 20	1876	447	69	1026
Electric-circuit breaker	D. S. Schnreman	516,025	Mar. 6	475	110	66	1540
Electric-circuit controller	R. Callender	511,873	Jan. 2	206	52	66	43
Electric-circuit regulator	H. F. Waite	520,908	June 5	20	67, 68	67	1249
Electric circuit-testing device	G. A. O'Neill	523,865	July 31	2946	735	68	611
Electric circuits. Apparatus for periodically completing and interrupting	E. L. Berry and F. Harrison	514,746	Feb. 13	1292	326	66	1115
Electric circuits. Battery-changer for	C. Bernhardt	524,374	Aug. 14	717	174	68	809
Electric circuits. Cleat for supporting conducting-wires for	H. B. Wyman	518,907	Apr. 24	2545	629	67	510
Electric circuits. Distributing-board for	R. Herman	522,370	July 3	330	85	68	65
Electric circuits. Magazine-fuso for	C. E. Jones	514,554	Feb. 13	962	243	66	1052
Electric circuits. Stand for controlling	E. R. Knowles and E. H. Park	520,788	June 5	47	10	67	1205
Electric conductor	H. F. Chick	513,982	Feb. 6	14	3	66	857
Electric-conductor condit.	J. Tatham	529,216	Nov. 13	1244	299	69	891
Electric conductor for underground conduits	D. E. Conner	518,939	May 1	6	2	67	538
Electric-conductor support	J. M. Andersen	531,354	Dec. 25	2253	538	69	1671
Electric conductor. Underground	H. A. Seymour	514,133	Feb. 6	245	59	66	900
Electric conductors. Bond-wire for	A. Hoffmann and J. Brogan	514,714	Feb. 13	1234	307	66	1104
Electric conductors. Coating	A. F. Montgomery	528,301	Oct. 30	2754	665	69	567

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Electric conductors. Composition of matter for.....	D. Macfarlan	526,721	Oct. 2	85	69	19
Electric conductors. Composition of matter for.....	D. Macfarlan	526,722	Oct. 2	88	.....	69	19
Electric conductors. Manufacture of.....	J. Robinson	529,411	Nov. 20	1602	381	69	978
Electric conductors. Manufacture of.....	J. Robinson	529,413	Nov. 20	1606	382	69	979
Electric conductors. Means for cooling.....	H. A. Rowland	513,422	Jan. 23	2794	684	66	628
Electric conduit.....	T. T. La Pointe, J. H. Flanagan, and C. A. Thompson.....	530,951	Dec. 18	1521	360	69	1522
Electric contactor. Rotatable.....	J. W. Curry	529,898	Nov. 27	2430	584	69	1139
Electric conversion system.....	L. Gutmann	530,178	Dec. 4	170	43	69	1245
Electric converter.....	G. D. Burton and E. E. Angell	522,506	July 3	560	143	68	111
Electric converter.....	G. D. Burton and E. E. Angell	522,507	July 3	562	144	68	111
Electric converter.....	J. A. Cabot	523,805	July 31	2842	706	68	591
Electric converter.....	F. C. Priestly	531,005	Dec. 18	1620	384	69	1540
Electric-current distributing system. Continuous.....	M. von Dolivo-Dobrowolsky.....	513,006	Jan. 16	2158	513	66	434
Electric-current indicator.....	J. J. Wood	520,129	May 22	2091	508	67	967
Electric-current recorder.....	J. W. T. Olán	518,534	Apr. 17	1902	471	67	379
Electric-current regulator.....	C. D. Haskins	516,487	Mar. 13	1239	296	66	1699
Electric-current regulator.....	A. B. Jones	512,115	Jan. 2	647	155	66	124
Electric-current regulator.....	E. E. Ries	515,970	Mar. 6	378	89	66	1523
Electric-current regulator.....	A. G. Waterhouse.....	518,359	Apr. 17	1609	398	67	327
Electric currents into alternating currents. Apparatus for transforming continuous.....	F. S. F. Schneider.....	524,911	Aug. 21	1602	392	68	924
Electric currents. Load-governor for.....	F. E. Pritchard	514,030	Feb. 6	88	22	66	870
Electric currents. Means for generating.....	N. Tesla	514,168	Feb. 6	314	75	66	912
Electric currents of high potential. Generating and utilizing.....	C. S. Bradley	519,377	May 8	806	196	67	707
Electric currents. Portable regulator for.....	E. E. Ries	515,971	Mar. 6	382	89	66	1524
Electric currents. Regulating.....	A. G. Waterhouse.....	518,360	Apr. 17	1612	398	67	327
Electric currents. Transmission of rapidly-alternating.....	W. H. Eckert.....	512,102	Jan. 2	821	150	66	119
Electric cut-out.....	H. Hansen	531,310	Dec. 25	2177	521	69	1657
Electric cut-out.....	E. E. Hersh	526,227	Sept. 18	1576	370	68	1463
Electric cut-out.....	A. P. Seymour	512,331	Jan. 9	994	243	66	200
Electric cut-out. Automatic.....	D. F. Sweet	529,212	Nov. 13	1237	297	69	890
Electric distribution and generation. System of.....	E. J. Houston	522,986	July 17	1397	349	68	296
Electric distribution-box.....	O. D. and M. A. Kleinstenber	515,087	Feb. 20	1821	459	66	1227
Electric distribution-box.....	O. D. and M. A. Kleinstenber	522,664	July 10	835	208	68	177
Electric distribution. System of.....	E. W. Rice, Jr.....	516,835	Mar. 20	1826	432	66	1825
Electric elevator.....	F. E. Herdman. (Reissue).....	11,408	Mar. 27	2863	671	66	2041
Electric elevator.....	F. E. Herdman	519,117	May 1	305	72	67	594
Electric elevator.....	W. D. Lutz	520,794	June 5	57	13	67	1207
Electric elevator.....	N. P. Otis	513,134	Jan. 23	2346	565	66	540
Electric elevator.....	R. Watson	516,956	Mar. 20	2029	480	66	1864
Electric fountain.....	F. P. Shanafelt	518,122	Apr. 10	1176	295	67	230
Electric furnace.....	E. Thomson	513,602	Jan. 30	3130	768	66	724
Electric generator.....	W. Baxter, Jr	519,220	May 1	608	148	67	654
Electric generator.....	N. Tesla	511,916	Jan. 2	320	75	66	62
Electric generator.....	H. O. C. E. Wagemann	526,064	Sept. 18	1287	298	68	1411
Electric generator. Self-exciting constant-potential.....	A. Schmid and B. G. Lamme.....	519,098	May 1	271	64	67	588
Electric heater.....	W. J. Bowen	512,797	Jan. 16	1797	428	66	367
Electric heater.....	J. R. Davis	527,324	Oct. 9	1063	257	69	211
Electric heater.....	A. S. Hatch	515,401	Feb. 27	2363	566	66	1341
Electric heater.....	S. B. Jenkins	519,043	May 1	172	41	67	569
Electric heater.....	J. F. Kester	524,062	Aug. 7	158	36	68	671
Electric heater.....	H. W. Leonard	522,718	July 10	929	232	68	194
Electric heater.....	C. H. Newbury	524,646	Aug. 14	1164	287	68	893
Electric heater.....	S. E. Nutting	515,693	Feb. 27	2833	705	66	1432
Electric heater.....	J. O'Meara	516,508	Mar. 13	1283	305	66	1707
Electric heater.....	L. B. Rowley	517,170	Mar. 27	2420	599	66	1954
Electric heater.....	T. W. Young	524,881	Aug. 21	1561	381	68	976
Electric heater. Dynamic.....	H. B. Collins	527,050	Oct. 9	620	150	69	131
Electric indicator.....	C. J. Coleman	526,220	Sept. 18	1567	367	68	1461
Electric indicator.....	W. E. Garey	519,945	May 15	1758	431	67	893
Electric indicator.....	A. H. Hoyt	512,250	Jan. 2	858	207	66	162
Electric instruments. Binding-post for.....	E. A. Lowe	529,127	Nov. 13	1082	261	69	863
Electric-light circuits. Registering mechanism for.....	W. McNeill and J. H. Tinder	526,579	Sept. 25	2182	521	68	1590
Electric-light cut-off.....	J. B. Stewart	513,250	Jan. 23	2538	611	66	578
Electric-light filaments. Material for making.....	G. A. Cannot	523,264	July 17	1895	.....	68	387
Electric-light fixture.....	H. Horn	530,343	Dec. 4	476	118	69	1301
Electric-light fixture.....	J. R. Konetshny.....	529,654	Nov. 20	2023	485	69	1054
Electric-light fixture for music-stands.....	W. J. Kelly	513,113	Jan. 23	2313	557	66	534
Electric light. Incandescent.....	N. Tesla	514,170	Feb. 6	319	75	66	913
Electric-light support.....	W. H. Connell.....	518,713	Apr. 24	2223	553	67	450
Electric-light support.....	W. H. Connell.....	524,706	Aug. 21	1264	311	68	924
Electric-light wires. Rosette for.....	D. J. Cartwright	523,315	Aug. 28	2322	562	68	1130
Electric-light wires. Rosette for.....	C. N. Hammond	524,109	Aug. 7	237	55	68	705
Electric-light wires. Rosette for.....	C. N. Hammond	525,653	Sept. 4	561	135	68	1254
Electric lights. System for controlling.....	W. F. Bradner	517,812	Apr. 3	661	165	67	128
Electric-lighting circuits. Service end, cut-out, and switch-box for.....	J. Van Vleck	530,141	Dec. 4	108	28	69	1235
Electric-lighting system.....	G. J. and G. J. T. J. Parfitt.....	528,021	Oct. 23	2264	546	69	462
Electric-lighting system.....	H. J. Wells	515,806	Mar. 6	126	30	66	1477

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Electric-lighting system and apparatus	E. Thomson	525,369	Sept. 4	86	23	68	1166
Electric-lighting system. Transformer	P. Wright	521,924	June 26	2079	499	67	1627
Electric lock	F. Apitz	525,400	Sept. 4	146	37	68	1177
Electric lock	R. V. Cheatham	514,813	Feb. 13	1391	351	66	1134
Electric lock	J. R. Donnelly	516,478	Mar. 13	1223	293	66	1696
Electric lock	J. Eldon	518,667	Apr. 24	2134	534	67	435
Electric lock	T. P. Pratt	526,909	Oct. 2	405	101	69	75
Electric machine. Alternating-current dynamo	E. Thomson	522,241	July 3	113	27	68	22
Electric machine. Coin-controlled	R. J. Merker	518,463	Apr. 17	1788	{443 444}	67	359
Electric machine. Continuous-current dynamo	M. Huntin and M. Leblanc	529,650	Nov. 20	2012	482	69	1052
Electric machine. Dynamo	L. Bell	522,580	July 10	698	{177 178}	68	153
Electric machine. Dynamo	C. F. Brush	514,907	Feb. 20	1552	{388 389}	66	1178
Electric machine. Dynamo	F. J. Crouch	516,298	Mar. 13	914	215	66	1640
Electric machine. Dynamo	G. F. Diekmann	513,459	Jan. 23	2872	{706 707}	66	642
Electric machine. Dynamo	H. E. Dikeman	518,444	Apr. 17	1756	436	67	354
Electric machine. Dynamo	R. Eickemeyer	524,020	Aug. 7	86	19	68	678
Electric machine. Dynamo	E. Fawcett	527,415	Oct. 16	1216	297	69	254
Electric machine. Dynamo	G. Forbes	518,944	May 1	15	4	67	539
Electric machine. Dynamo	G. Forbes	518,945	May 1	16	4, 5	67	539
Electric machine. Dynamo	A. B. Herrick	520,781	June 5	34	8	67	1203
Electric machine. Dynamo	J. E. Maynardier	515,882	Mar. 6	232	54, 55	66	1497
Electric machine. Dynamo	J. F. McElroy	525,353	Sept. 4	52	15	68	1161
Electric machine. Dynamo	G. Reunerfeld	523,998	Aug. 7	52	12	68	671
Electric machine. Dynamo	E. W. Rice, Jr.	526,743	Oct. 2	124	29, 30	69	25
Electric machine. Dynamo	W. B. Sayers	524,119	Aug. 7	254	59, 60	68	708
Electric machine. Dynamo	C. E. Scribner	522,274	July 3	180	49	68	37
Electric machine. Dynamo	E. Thomson	523,696	July 31	2645	656	68	555
Electric machine. Dynamo	E. Thury	529,145	Nov. 13	1117	270	69	870
Electric machine. Dynamo	J. Wenström	515,386	Feb. 27	2340	581	66	1337
Electric machine. Dynamo	D. H. Wilson	526,170	Sept. 18	1473	344	68	1443
Electric machine. Dynamo or magneto	L. Paget	522,083	June 26	2369	570	67	1680
Electric machine. Magneto	J. N. McLeod	530,235	Dec. 4	285	70	69	1267
Electric machine. Magneto	A. J. Potter	514,241	Feb. 6	470	115	66	941
Electric machine. Magneto	H. H. Taylor	513,347	Jan. 23	2679	{649 650}	66	605
Electric machine. Magneto	E. Tilmann	523,247	July 17	1866	469	68	381
Electric machine or electric motor. Dynamo	R. K. Welch	520,152	May 22	2136	521	67	977
Electric machine or motor. Dynamo	N. C. Bassett	516,792	Mar. 20	1755	414	66	1810
Electric machine or motor. Dynamo	C. S. Bradley	522,286	July 3	195	53	68	40
Electric machine or motor. Dynamo	W. H. Knight	523,668	July 31	2596	647	63	547
Electric machine or motor. Dynamo	A. L. Riker	518,768	Apr. 24	2312	{574 575}	67	467
Electric machine or motor. Dynamo	H. S. Rodgers	512,843	Jan. 16	1879	444	66	382
Electric machine or motor. Dynamo	A. B. See and W. L. Tyler	524,533	Aug. 14	977	240	68	857
Electric-machine regulator. Dynamo	L. Bell	518,218	Apr. 17	1355	338	67	281
Electric-machine regulator. Dynamo	T. A. Edison	524,136	Aug. 7	291	68	68	715
Electric-machine regulator. Dynamo	W. H. Elkins	518,232	Apr. 17	1376	345	67	285
Electric-machine regulator. Dynamo	J. Ferrand	529,117	Nov. 13	1064	257	69	860
Electric-machine regulator. Dynamo	C. L. F. Müller	518,349	Apr. 17	1585	{392 393}	67	322
Electric-machine regulator. Dynamo	C. E. Scribner	512,227	Jan. 2	824	{199 200}	66	156
Electric-machine regulator. Dynamo	C. E. Scribner	522,275	July 3	182	49, 50	68	37
Electric machines. Automatic regulator for dynamo	E. A. Sperry and G. E. Mills	513,062	Jan. 16	2234	537	66	449
Electric machines. Brush for dynamo	P. J. C. Carron	530,088	Dec. 4	22	6	69	1219
Electric machines. Brush for dynamo	E. T. Platt	530,717	Dec. 11	1136	276	69	1436
Electric machines. Brush-holder for dynamo	R. Fuller	522,051	June 26	2319	557	67	1670
Electric machines. Coil for dynamo	L. Bell	516,797	Mar. 20	1761	415	66	1811
Electric machines. Current-regulator for dynamo	C. E. Scribner	514,504	Feb. 13	885	225	66	1037
Electric machines in multiple. Running compound-wound dynamo	W. B. Potter	527,075	Oct. 9	652	158	69	137
Electric machines. Means for mounting and driving dynamo	A. L. Riker	525,118	Aug. 28	1997	488	68	1070
Electric machines or motors. Brush-holder for dynamo	A. L. Riker	520,169	May 22	2167	527	67	982
Electric machines. Self-adjusting brush for dynamo	W. L. Bliss	525,836	Sept. 11	908	202	68	1328
Electric machines. Spark-regulator for dynamo	C. E. Scribner	512,397	Jan. 9	1106	{268 269}	66	221
Electric machines. System and apparatus for control of	E. A. Sperry	525,395	Sept. 4	134	34	68	1174
Electric machines. System of circuit control for	C. E. Davis	520,822	June 5	118	26, 27	67	1219
Electric machinery. Construction of solenoids or coils of wire used in	G. Forbes	518,946	May 1	18	5	67	540
Electric machinery. Dynamo	C. Sellers	520,940	June 5	348	85	67	1260
Electric machinery. Regulation of dynamo	E. M. Bentley	524,373	Aug. 14	715	174	68	808
Electric meter	T. Bruger	531,133	Dec. 18	1886	447	69	1589
Electric meter	T. Duncan	518,311	Apr. 17	1503	{376 377}	67	307
Electric meter	T. Duncan	523,704	July 31	2661	{660 661 671 672}	68	558
Electric meter	C. Gudgell	513,391	Jan. 23	2751	619	66	619
Electric meter	E. Hartmann	523,662	July 31	2590	645	68	516
Electric meter	J. C. Henry	513,264	Jan. 23	2565	619	66	584
Electric meter	C. Raab	514,131	Feb. 6	242	58, 59	66	900
Electric meter	C. D. Raab	524,953	Aug. 21	1677	411	68	996
Electric meter	W. B. Reed	521,029	June 5	601	142	67	1305
Electric meter	G. A. Scheeffler	522,074	July 10	852	212	68	181
Electric meter	G. A. Scheeffler	530,351	Dec. 4	488	121	69	1303
Electric meter	E. Thomson	520,811	June 5	92	21	67	1215

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Electric meter	E. Thomson	521,685	June 19	1661	390	67	1531
Electric motor	H. P. Brown	518,561	Apr. 17	1942	480 481	67	386
Electric motor	J. H. Clark	526,686	Oct. 2	24	6	69	7
Electric motor	C. J. Coleman	516,916	Mar. 20	1964	462	66	1850
Electric motor	C. J. Coleman	516,917	Mar. 20	1966	463	66	1851
Electric motor	O. F. Conklin	516,263	Mar. 13	868	202 203	66	1631
Electric motor	W. A. Crowdus	511,758	Jan. 2	28	7	66	8
Electric motor	J. F. Denison	523,140	July 17	1673	419	62	347
Electric motor	C. Doriot	515,488	Feb. 27	2498	618	66	1366
Electric motor	G. S. Dunn	515,755	Mar. 6	35	11	66	1461
Electric motor	E. T. Greenfield	517,858	Apr. 10	725	182	67	154
Electric motor	J. C. Henry	518,033	Apr. 10	1026	259	67	206
Electric motor	F. E. Herdman	519,116	May 1	301	71, 72	67	593
Electric motor	F. E. Herdman	530,773	Dec. 11	1233	299	69	1455
Electric motor	A. Hinman	520,782	June 5	37	8, 9	67	1204
Electric motor	J. D. Ihlder	514,077	Feb. 6	160	38	66	884
Electric motor	W. H. Knight	516,818	Mar. 20	1797	425	66	1818
Electric motor	J. Lee	521,799	June 26	1864	446 447	67	1585
Electric motor	J. S. Losch	526,016	Sept. 11	1204	276	68	1383
Electric motor	A. V. Meserole	525,108	Aug. 23	1981	484 485	68	1067
Electric motor	A. W. Meston	526,083	Sept. 18	1323	306 307 308	68	1417
Electric motor	E. E. Ries and G. J. Scott	519,272	May 1	592	144 145	67	652
Electric motor	W. L. Silvey	524,407	Aug. 14	783	191 192	68	321
Electric motor	W. J. Still	517,668	Apr. 3	427	104	67	82
Electric motor	W. J. Still	517,669	Apr. 3	431	104 105	67	82
Electric motor	E. Thomson	526,169	Sept. 18	1471	343	68	1443
Electric motor	F. C. Whitmore	524,011	Aug. 7	72	16	68	675
Electric motor	P. Wuest, Jr.	516,784	Mar. 20	1745	411	66	1508
Electric motor. Alternating	L. Gutmann	530,177	Dec. 4	167	43	69	1245
Electric motor. Alternating-current	C. S. Bradley	514,903	Feb. 20	1546	387	66	1177
Electric motor. Alternating-current	E. Thomson	516,849	Mar. 20	1849	438	66	1830
Electric-motor controller	J. B. Blood	522,581	July 10	700	178 179	68	153
Electric-motor controller	W. Cooper	518,345	Apr. 17	1579	391	67	321
Electric-motor controller	W. J. Hopkins and T. Stebbins	520,784	June 5	40	9	67	1204
Electric-motor controller	J. H. Jenkins	524,385	Aug. 14	732	177 178 185	68	812
Electric-motor controller	W. B. Potter	524,396	Aug. 14	760	186 187	68	818
Electric-motor-controlling apparatus	F. E. Herdman	519,124	May 1	327	77	67	600
Electric-motor-controlling device	F. E. Herdman	519,121	May 1	319	76	67	598
Electric-motor-controlling device	F. E. Herdman	519,122	May 1	321	76	67	599
Electric-motor-controlling device	F. E. Herdman	519,123	May 1	325	77	67	600
Electric-motor-controlling device	J. E. Stanton	513,213	Jan. 23	2464	555 552	66	563
Electric-motor-controlling mechanism	C. H. Richardson	523,444	July 24	2195	553 553	68	458
Electric motor. Differentially-geared	B. C. Pole	527,023	Oct. 2	577	139	69	109
Electric-motor governor	J. F. Winter	517,714	Apr. 3	507	122	67	98
Electric motor or dynamo	C. F. Daniels	527,776	Oct. 23	1508	436	69	381
Electric motor or dynamo-electric machine	J. W. Henderson	517,105	Mar. 27	2306	543	66	1932
Electric motor or generator	W. Baxter, Jr.	519,281	May 1	611	149	67	655
Electric-motor-propelled elevator	F. E. Herdman	530,619	Dec. 11	970	237 238	69	1408
Electric-motor regulator	F. E. Herdman	519,120	May 1	315	75	67	597
Electric-motor regulator	S. H. Short	514,429	Feb. 6	745	190	66	994
Electric-motor reversing mechanism	J. Mellen and N. O. Goldsmith	528,440	Oct. 30	2987	722	69	608
Electric motors and replacing same. Automatic device for removing resistance in starting	G. H. Whittingham	518,906	Apr. 24	2542	629	67	510
Electric motors and replacing same. Automatic device for removing resistances in starting	G. H. Whittingham	520,280	May 22	2355	571 572	67	1018
Electric motors. Automatic speed-regulator for	W. Hochhausen	516,651	Mar. 20	1529	363 364	66	1769
Electric motors. Cooling	E. Thomson	518,291	Apr. 17	1475	368 369	67	302
Electric motors for operating machinery. Utilizing	C. Hoffmann and E. Richter	513,507	Jan. 30	2962	728	66	693
Electric motors for operating machinery. Utilizing	E. Richter	518,608	Nov. 6	145	36	69	673
Electric motors into circuit. Apparatus for putting	C. Hoffmann	526,810	Oct. 2	230	56	69	43
Electric motors. Operating	J. S. Bancroft	519,686	May 8	1345	324 325	67	803
Electric motors. Operating	J. S. Bancroft	520,748	May 29	3137	759 760	67	1178
Electric motors. Pedal-governor for	A. G. McKee	520,072	May 22	1978	485	67	949
Electric motors. Starting and controlling device for	J. W. Moore	516,831	Mar. 20	1819	431	66	1823
Electric motors. Starting and controlling device for	J. W. Moore	523,566	July 24	2443	612	68	502
Electric mouth-battery	L. L. Funk	527,037	Oct. 2	598	144	69	113
Electric plug-switch	A. H. Palmer	531,424	Dec. 25	2374	568	69	1695
Electric-power appliance	B. J. Arnold	517,831	Apr. 10	684	170 171	67	147
Electric power. Meter for recording measurements of	E. Thomson	521,624	June 19	1660	390	67	1531
Electric-power stations. Means for preventing arcing in	E. Thomson	520,809	June 5	87	20	67	1214
Electric reciprocating motor	E. Thomson	520,810	June 5	90	21	67	1214

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electric roads. Underground conduit for	E. A. Mathers	528,963	Nov. 13	816	{ 190 191	69	815
Electric search-light	E. R. Knowles	516,821	Mar. 20	1800	{ 426 427		
Electric search-light	E. R. Knowles	524,368	Aug. 14	739	{ 179 180	68	814
Electric search-light	C. E. Ongley	513,052	Jan. 16	2222	533		66 446
Electric signal for steamboats	R. H. Gruschow	524,202	Aug. 7	401	95	68	735
Electric snap-switch	A. Metzger	526,725	Oct. 2	92	23	69	19
Electric starting-switch	F. V. Henshaw	518,404	Apr. 17	1682	{ 416 417	67	340
Electric subway	J. J. E. Philips	521,125	June 5	658	155	67	1316
Electric switch	G. Baehr	525,936	Sept. 11	1071	243	68	1358
Electric switch	F. G. Beron	525,988	Oct. 2	520	127	69	98
Electric switch	F. G. Billes	528,900	Nov. 6	682	164	69	771
Electric switch	G. F. Card	525,332	Sept. 4	14	3	68	1153
Electric switch	J. M. Cronin	530,472	Dec. 4	680	170	69	1340
Electric switch	A. Ekström	518,231	Apr. 17	1376	345	67	224
Electric switch	J. S. Gibbs	517,100	Mar. 27	2299	542	66	1931
Electric switch	W. S. Hill	518,613	Apr. 24	2392	591	67	480
Electric switch	J. L. Hinds	511,889	Jan. 2	278	64	66	54
Electric switch	J. L. Hinds	512,614	Jan. 9	1460	353	66	287
Electric switch	J. Hutchinson	522,597	July 10	721	185	68	157
Electric switch	R. S. Kelsch	527,177	Oct. 9	814	198	69	166
Electric switch	J. F. Kester	523,074	July 17	1539	385	68	322
Electric switch	I. N. Lewis	516,498	Mar. 13	1261	301	66	1703
Electric switch	G. E. Linton	523,724	July 31	2703	669	68	565
Electric switch	A. T. MacCoy	517,957	Apr. 10	900	225	67	125
Electric switch	R. Mackie	517,582	Apr. 3	271	62	67	53
Electric switch	J. F. McElroy	519,338	May 8	731	{ 179 180	67	693
Electric switch	J. F. McLaughlin	528,014	Oct. 23	2252	544		69 461
Electric switch	J. B. Smith	518,471	Apr. 17	1803	446	67	362
Electric switch	C. F. Speed, E. W. Barker, and C. P. Frank	517,773	Apr. 3	602	148	67	116
Electric switch	I. W. Ullman	530,293	Dec. 4	376	97	69	1285
Electric switch	J. Van Vleck	522,332	July 3	268	71	68	54
Electric switch	E. P. Warner	512,774	Jan. 16	1767	419	66	361
Electric switch	H. E. Werhine	520,279	May 22	2353	571	67	1017
Electric switch	L. Winterhalder	526,172	Sept. 18	1476	345	68	1444
Electric switch	E. Woltmann	518,800	Apr. 24	2366	586	67	475
Electric switch and cut-out	J. C. Cassidy	529,595	Nov. 20	1932	460	69	1037
Electric-switch box	E. R. Knowles	520,852	June 5	181	39	67	1230
Electric switch. Fluid-operated	J. J. P. Clariot	525,092	Aug. 23	1954	{ 477 478	68	1063
Electric switch or cut-out	J. C. Cassidy	529,363	Nov. 20	1505	362		69 961
Electric traction apparatus	P. Schoop	520,340	May 22	2457	596	67	1037
Electric transformer	C. S. Bradley	525,689	Sept. 11	634	149	68	1281
Electric transformer	E. Thomson	528,188	Oct. 30	2550	618	69	531
Electric transformer	J. J. Wood	524,188	Aug. 7	372	88, 89	68	729
Electric uterine battery	C. E. Hebard	527,788	Oct. 23	1834	441	69	386
Electric-wire cleat or holder	A. W. Fuller	513,564	Jan. 30	3072	755	66	713
Electric-wire connection	J. Y. De Mott	521,018	June 5	473	113	67	1282
Electric-wire connector	E. H. Munson	513,949	Jan. 30	3678	906	66	829
Electric-wire coupling	C. K. Hall and W. B. Lillard	524,980	Aug. 21	1722	422	68	1005
Electric-wire fastener	H. C. Fricke	525,891	Sept. 11	1008	227	68	1347
Electric-wire-holding device. Detachable	C. Beard	513,630	Jan. 30	3177	780	66	732
Electric-wire splice-covering	T. J. Dewees	515,905	Mar. 6	271	63	66	1504
Electric wires. Automatic safety-joint for	J. H. Curry	521,908	June 26	2053	494	67	1623
Electric wires. Self-locking cleat for	E. Nashold	522,302	July 3	222	59	68	45
Electrical apparatus	G. W. Hey	514,462	Feb. 13	808	{ 206 207	66	1023
Electrical apparatus. Coin-controlled	J. O. Frost	520,044	May 22	1926	472		67 940
Electrical apparatus. Coin-controlled	H. F. Galligan	526,368	Sept. 25	1868	444	68	1533
Electrical apparatus. Regulating-socket for	E. E. Ries	515,969	Mar. 6	374	88	66	1523
Electrical apparatus. Safety cut-out for	H. Lemp and M. J. Wightman	517,120	Mar. 27	2330	542	66	1937
Electrical-circuit controller	R. Callender	515,108	Feb. 20	1849	{ 465 466	66	1233
Electrical-circuit controller	R. Callender	515,109	Feb. 20	1852	466		66 1233
Electrical conductor	G. H. Blakesley	523,160	July 17	1705	428	68	352
Electrical conductor	D. B. Hayward	514,460	Feb. 13	798	205	66	1022
Electrical conductor	E. D. McCracken	524,343	Aug. 14	664	162	68	799
Electrical conductor	N. Tesla	514,167	Feb. 6	313	75	66	912
Electrical-conductor bond	J. Herr	521,238	June 12	860	203	67	1366
Electrical conductors. Sheathing	J. Tatham	529,215	Nov. 13	1243	299	69	891
Electrical conductors. Weather-protecting covering for	E. J. Houston	527,556	Oct. 16	1446	352	69	297
Electrical connection	H. Sanche. (Reissue)	11,397	Jan. 2	874	{ 210 211	66	165
Electrical connection	H. Sanche. (Reissue)	11,398	Jan. 2	876	211		66 165
Electrical-connection cord	A. H. McCulloch	522,989	July 17	1421	355	68	299
Electrical connections. Plug for establishing	C. W. Brown	523,599	Nov. 6	12	5	69	646
Electrical connector	J. B. Henck, Jr.	526,078	Sept. 18	1316	305	68	1415
Electrical contact mechanism	J. F. Blake	518,133	Apr. 10	1190	298	67	233
Electrical contact mechanism	J. F. Blake	518,481	Apr. 17	1-13	449	67	364
Electrical contact mechanism	J. F. Blake	520,351	May 22	2476	600	67	1040
Electrical contact mechanism	J. F. Blake	530,004	Nov. 27	2640	634	69	1180
Electrical controller	E. A. Sperry	515,374	Feb. 27	2319	575	66	1333
Electrical conversion and distribution. System of	T. H. Hicks	530,050	May 22	1940	475	67	942
Electrical converter	R. H. Hassler	523,572	July 24	2420	607	68	498
Electrical converter	J. W. Packard	527,070	Oct. 9	646	157	69	136
Electrical converter	A. L. Riker	515,020	Feb. 20	1716	431	66	1209
Electrical-current director	J. F. McElroy	525,354	Sept. 4	53	15	68	1161

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Electrical cut-out	D. F. Sweet	529,213	Nov. 13	1239	298	69	890
Electrical distribution by alternating currents. System of	C. F. Scott	521,051	June 5	534	126	67	1294
Electrical distribution. System of	T. C. Coykendall	525,445	Sept. 4	217	54	63	1191
Electrical distribution. System of	T. C. Coykendall	525,446	Sept. 4	219	54	63	1192
Electrical distribution. System of	T. A. Edison	524,378	Aug. 14	723	175	68	810
Electrical distribution. System of	T. J. Fay	521,436	June 12	1215	288	67	1433
Electrical distribution. System of	B. G. Lamme	520,965	June 5	383	93	67	1267
Electrical distribution. System of	J. F. McElroy	525,769	Sept. 11	777	180	68	1306
Electrical distribution. System of	E. W. Rice, Jr.	516,836	Mar. 20	1829	433	66	1825
Electrical distribution. System of	W. Stanley, Jr., and J. F. Kelly. (Reissue.)	11,400	Jan. 30	3714	914	66	836
Electrical distribution. System of	C. H. Talmage	513,839	Jan. 30	3508	864	66	795
Electrical distribution. System of	E. Thomson	519,076	May 1	237	56	67	521
Electrical distribution. System of	G. Westinghouse, Jr.	524,749	Aug. 21	1340	327	68	936
Electrical distribution. Transformer system of	P. Wright	521,925	June 26	2084	500	67	1628
Electrical distribution with storage-batteries. System of	E. Kuchenmeister	530,432	Dec. 4	616	153	69	1328
Electrical energy. System of transmitting and distributing	C. C. Chesney	530,748	Dec. 11	1190	290	69	1446
Electrical foot-bath	I. A. Isaacs	517,862	Apr. 10	729	183	67	155
Electrical heater	A. Cocbrane	516,152	Mar. 6	672	158	66	1578
Electrical indicator	A. E. Kennelly	517,163	Mar. 27	2403	566	66	1951
Electrical-instrument table	J. F. Mehren	518,788	Apr. 24	2344	581	67	472
Electrical keyboard	C. E. Allen	517,402	Mar. 27	2830	662	66	2035
Electrical meter	N. Tesla	514,973	Feb. 20	1650	413	66	1197
Electrical motor	H. B. Porter	523,995	Aug. 7	48	11	68	670
Electrical purposes. Plug and receptacle for	D. J. Cartwrigth	530,066	Nov. 27	2749	659	69	1200
Electrical resistances. Instrument for measuring and regulating	G. B. Lawrason	514,325	Feb. 6	603	153	66	966
Electrical retoucher	C. M. Savage	528,564	Nov. 6	63	17	69	658
Electrical signal	H. H. Wister	527,257	Oct. 9	947	230	69	191
Electrical switch	E. Ruebel	517,664	Apr. 3	422	102	67	81
Electrical switch setting, indicating, and controlling device	K. Moderegger	526,813	Oct. 2	235	57	69	44
Electrical testing-switch	H. Smith	524,844	Aug. 21	1506	368	68	966
Electrical transformer	F. S. Culver	528,925	Nov. 13	753	176	69	804
Electrical transformer	R. M. Hunter	528,778	Nov. 6	453	111	69	729
Electrical transformer	E. Thomson	516,850	Mar. 20	1851	438	66	1830
Electrical transformer	F. Zickermann	529,152	Nov. 13	1127	273	69	871
Electrical transformer or converter	C. L. Coffin	512,603	Jan. 9	1445	348	66	284
Electrically-governed switch	E. H. E. Klatte	519,813	May 15	1548	378	67	855
Electrically-operated elevator	F. E. Herdman. (Reissue)	11,409	Mar. 27	2869	672	66	2043
Electrically-operated elevator	E. Marshall	528,547	Nov. 6	40	10	69	653
Electrically-operated register	S. J. Glass	532,113	June 26	2419	581	67	1688
Electrically-operated register for barrels, &c.	H. J. Bang	526,140	Sept. 18	1422	333	68	1435
Electrician's combination-tool	J. M. Gile	529,488	Nov. 20	1752	416	69	1004
Electricity. Apparatus for testing the resistance of conductors of	E. G. Willyoung	514,580	Feb. 13	1004	254	66	1060
Electricity by solar heat. Apparatus for generating	M. L. Severy	527,379	Oct. 9	1152	283	69	229
Electricity-counter	F. A. Brocq	523,566	July 24	2409	602	68	496
Electricity for light and power purposes. Apparatus for supplying	M. M. Kohn	524,983	Aug. 21	1728	423	68	1006
Electricity generated by means of wind-power. Device for regulating	T. A. Willard	519,881	May 15	1661	424	67	876
Electricity. Means and apparatus for distributing	H. T. Harrison	529,265	Nov. 13	1331	320	69	907
Electricity. Transmission of	J. P. B. Fiske	516,804	Mar. 20	1772	418	66	1813
Electricity. Transmission of	J. P. B. Fiske	516,805	Mar. 20	1773	418	66	1814
Electrochemical decomposition. Method of and apparatus for	H. Carmichael	518,710	Apr. 24	2209	551	67	448
Electro-expansion device	E. Thomson	523,695	July 31	2644	552	68	555
Electro hydrocarbon-engine	L. C. Maun	511,855	Jan. 2	171	43	66	36
Electro-magnetic switch. Automatic	H. P. White	513,065	Jan. 16	2239	538	66	450
Electro-mechanical device for bells, &c.	W. O. Meissner	513,557	Jan. 30	3105	763	66	720
Electrode for use in the manufacture of chlorin and caustic soda	J. Greenwood	514,318	Feb. 6	592	149	66	964
Electrode. Secondary-battery	J. and L. Legay, Fils	514,267	Feb. 6	505	124	66	948
Electrode. Secondary-battery	W. Morrison	512,514	Jan. 9	1318	318	66	261
Electrode. Secondary-battery	W. Morrison	522,479	July 3	520	132	68	103
Electrode. Therapeutic	W. B. Farrar	520,673	May 29	3019	730	67	1157
Electrodes. Producing	D. G. Fitz-Gerald	524,710	Aug. 21	1271	68	924	
Electrodeposition apparatus	H. L. Bridgman	526,482	Sept. 25	2042	466	68	1563
Electrodeposition apparatus	H. L. Bridgman	528,586	Nov. 6	104	26	69	665
Electrodeposition apparatus	H. L. Bridgman	528,587	Nov. 6	105	26	69	665
Electrolier	E. E. Clift	514,305	Feb. 6	576	144	66	961
Electrolier. Adjustable	C. M. McCamey and S. H. Root	518,198	Apr. 10	1318	329	67	258
Electrolysis	H. Blumenberg, Jr.	519,400	May 8	848	205	67	715
Electrolysis of salts. Apparatus for	I. L. Roberts	522,618	July 10	768	193	68	165
Electrolytes. Method of and apparatus for circulating liquid	P. Schoop	529,199	Nov. 13	1216	293	69	886
Electrolytic apparatus	E. Andreoli	512,266	Jan. 9	885	214	66	180
Electrolytic apparatus	E. Andreoli	525,732	Sept. 11	721	166	68	1295
Electrolytic apparatus	H. Y. Castner	518,135	Apr. 10	1194	300	67	234
Electrolytic apparatus	I. L. Roberts	522,615	July 10	762	192	68	164
Electrolytic cell	T. Craney	520,257	May 22	2316	561	67	1010

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Electrolytic cell.....	E. A. Le Suenr.....	514,681	Feb. 13	1181	294	66	1093
Electrolytic cell.....	E. A. Le Suenr.....	518,040	Apr. 10	1049	266	67	208
Electrolytic cell.....	C. T. J. Vautin.....	513,661	Jan. 30	3235	794	66	742
Electrolytic cells. Diaphragm for.....	E. A. Le Suenr.....	518,786	Apr. 24	2340	560	67	472
Electrolytic cells. Diaphragm for.....	C. N. Waite.....	523,026	July 17	1476	367	68	310
Electrolytic decomposition of salts.....	I. L. Roberts.....	522,616	July 10	765	193	68	164
Electrolytic-decomposition tank.....	I. L. Roberts.....	522,619	July 10	770	193	68	165
Electrolytic diaphragm.....	T. Craney.....	512,503	Jan. 9	1302	{ 313 314 }	{ 66 66 }	257
Electrolytic diaphragm.....	I. L. Roberts.....	522,614	July 10	763	192	68	164
Electrolytic purposes. Tank or cell for.....	F. E. and A. S. Elmore.....	524,940	Aug. 21	1661	407	68	993
Electrolytical apparatus.....	O. Hoepfner.....	518,065	Apr. 10	1087	274	67	215
Electrolytical apparatus.....	C. Knöfder.....	522,539	July 10	1146	284	68	232
Electrolytical decomposition. Apparatus for.....	A. Sindig-Larsen.....	525,555	Sept. 4	309	96	68	1225
Electromagnetic apparatus.....	S. D. Field.....	529,373	Nov. 20	1527	366	69	965
Electromagnetic apparatus. Suppression of self-inductive obstruction in.....	S. D. Field.....	530,516	Dec. 11	795	197	69	1377
Electromagnetic machine.....	G. J. Scott.....	529,085	Nov. 13	1019	245	69	851
Electromagnetic machines. Controlling.....	W. I. Donshea.....	531,365	Dec. 25	5276	{ 542 543 }	{ 69 69 }	1676
Electromagnetic motor.....	N. Tesla.....	524,426	Aug. 14	809	197	68	826
Electromagnetic switch.....	J. G. Hartel.....	528,430	Oct. 30	2973	719	69	605
Electromagnetic tool.....	C. F. Carpenter.....	519,602	May 8	1304	311	67	795
Electromagnetic tractile device.....	C. M. Allen.....	525,523	Sept. 4	340	84	68	1214
Electrometer.....	E. Weston.....	530,145	Dec. 4	113	30	69	1236
Electromotors. Method of and means for operating and controlling.....	C. Moderegger.....	530,114	Dec. 4	67	19	69	1227
Electroplating. Process of and apparatus for.....	C. M. Barber.....	523,099	July 17	1576	396	68	330
Electrostatic instruments. Induction mechanism for.....	W. E. Ayrton and T. Mather.....	513,975	Feb. 6	6	1	66	856
Electrotherapeutic apparatus. Circuit-breaker for.....	L. W. Downes.....	524,165	Aug. 7	342	80	68	724
Electrotype-block.....	W. T. Barnum.....	520,981	June 5	415	99	67	1272
Electrotype-matrices. Machine for black-leading.....	O. B. Beach.....	527,627	Oct. 23	1890	{ 453 454 }	{ 69 69 }	395
Electrotype-plates. Making.....	J. W. Naughton.....	529,078	Nov. 13	1006	243	69	848
Electrotypes. Making.....	A. W. Harrison.....	523,836	July 31	2900	{ 721 722 }	{ 68 68 }	602
Electrotypes or stereotypes for printing. Making curved.....	J. H. Ferguson.....	522,319	July 3	247	66	68	49
Electrotyping. Machine for making wax forms for.....	C. M. Letz.....	524,765	Aug. 21	1367	333	68	941
Elevated carrier.....	G. B. Davis.....	521,309	June 12	993	234	67	1390
Elevated carrier.....	G. W. Keen.....	517,343	Mar. 27	2699	634	66	2009
Elevating and bag-holding machine. Portable.....	G. S. Ingle.....	519,261	May 1	577	141	67	649
Elevating apparatus.....	C. W. Hunt.....	527,496	Oct. 16	1345	328	69	280
Elevating apparatus. Hydraulic.....	G. H. Reynolds.....	524,046	Aug. 7	124	18, 29	68	685
Elevator: See Car-elevator. Letter-elevator. Cotton-elevator. Pneumatic elevator. Electric elevator. Portable elevator. Electric-motor-propelled elevator. Screw-elevator. Grain-elevator. Steam-elevator. Hay-elevator. Straw-elevator. Hod-elevator. Transportable elevator. Hydraulic elevator. Water-elevator.							
Elevator.....	C. W. Baldwin.....	519,804	May 15	1536	{ 375 376 }	{ 67 67 }	852
Elevator.....	J. W. Blake and F. H. Lacey.....	516,343	Mar. 13	986	234	66	1653
Elevator.....	J. H. Clark.....	520,755	May 29	3151	763	67	1180
Elevator.....	J. C. Fox.....	520,043	May 22	1924	471	67	940
Elevator.....	W. M. Frisbie.....	516,987	Mar. 20	2081	493	66	1873
Elevator.....	W. H. Hare.....	521,086	June 5	598	141	67	1304
Elevator.....	R. E. Herdman.....	519,118	May 1	310	73	67	595
Elevator.....	C. Hitzl.....	515,312	Feb. 20	2202	546	66	1299
Elevator.....	E. W. Houser and C. C. Decker.....	515,225	Feb. 20	2051	511	66	1269
Elevator.....	E. W. Houser and C. C. Decker.....	530,776	Dec. 11	1240	300	69	1456
Elevator.....	H. A. Johns.....	530,273	Dec. 4	345	85, 86	69	1278
Elevator.....	L. M. Johnson.....	529,031	Nov. 13	920	218	69	833
Elevator.....	W. H. McCoy.....	520,697	May 29	3059	741	67	1164
Elevator.....	R. J. Melius, Jr.....	515,781	Mar. 6	90	21	66	1471
Elevator.....	J. Naylor, Jr.....	514,023	Feb. 6	73	18, 19	66	867
Elevator.....	N. P. Otis.....	531,595	Dec. 25	2673	642	69	1733
Elevator.....	G. Quackenbush.....	519,292	May 1	633	154	67	600
Elevator.....	W. H. Rickabach.....	517,762	Apr. 3	595	146	67	115
Elevator.....	J. W. Seaver.....	527,295	Oct. 9	1017	247	69	203
Elevator and dump.....	E. E. Barton.....	514,535	Feb. 13	933	236	66	1046
Elevator and dump.....	S. E. Kurtz.....	517,702	Apr. 3	482	{ 115 116 }	{ 67 67 }	92
Elevator and dump.....	W. L. Oakes.....	521,888	June 26	2003	{ 483 484 }	{ 67 67 }	1614
Elevator apparatus.....	W. Hill.....	527,426	Oct. 16	1230	302	69	256
Elevator-brake. Electric.....	G. A. Brown.....	515,281	Feb. 20	2143	{ 532 533 }	{ 66 66 }	1288
Elevator-brake. Electric.....	A. J. Shaw.....	515,255	Feb. 20	2102	522	66	1280
Elevator-brake. Electric.....	A. J. Shaw.....	515,256	Feb. 20	2104	522	66	1280
Elevator-brake. Self-acting.....	G. W. Ludovici.....	517,735	Apr. 3	575	141	67	111
Elevator-controller.....	W. C. Smith.....	519,459	May 8	935	{ 225 226 }	{ 67 67 }	731
Elevator-controller.....	L. W. Southgate.....	527,896	Oct. 23	2025	487	69	419
Elevator-controller. Electric.....	L. S. Buffington and W. C. Jones.....	530,578	Dec. 11	902	222	69	1396
Elevator controlling device.....	C. W. Baldwin.....	529,438	Nov. 20	1662	395	69	989
Elevator controlling device.....	A. T. Brown.....	512,677	Jan. 16	1570	378	66	324
Elevator controlling device.....	A. N. Kalkins.....	523,197	July 17	1779	447	68	365
Elevator controlling device.....	W. F. Cole.....	515,930	Mar. 6	308	73	66	1511
Elevator controlling device.....	C. E. Foster.....	530,936	Dec. 18	1491	353	69	1518

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Elevator controlling device	C. A. Harkness	522,161	June 26	2505	{ 601 602 }	67	1706
Elevator controlling device	F. E. Herdman	519,119	May 1	312	74	67	596
Elevator controlling device	A. B. See and W. L. Tyler	531,070	Dec. 18	1725	410	69	1559
Elevator-cup	W. F. Boswell	523,698	Nov. 27	2096	502	69	1078
Elevator-door opening or closing device	W. J. Ferguson	527,366	Oct. 9	1132	276	69	225
Elevator-door-operating device	E. O. Church	527,665	Oct. 16	1623	391	69	329
Elevator-door-operating device	H. Rowntree	520,833	June 5	144	32	67	1223
Elevator-door-operating mechanism	E. C. Jenkins	518,408	Apr. 17	1687	418	67	341
Elevator-door-operating mechanism	E. C. Jenkins	518,409	Apr. 17	1688	418	67	342
Elevator driving mechanism. Electric	C. E. Geiger	521,160	June 12	726	{ 171 172 }	67	1342
Elevator for buildings	C. I. Hall	519,114	May 1	297	71	67	592
Elevator-gate	C. Stocker, Jr.	517,496	Apr. 3	136	30	67	28
Elevator gate and door	C. B. Jones	523,639	July 24	2532	{ 635 636 }	68	519
Elevator-gate. Automatic	J. McLaughlin	518,374	Apr. 17	1640	{ 404 405 }	67	332
Elevator-gate-operating device	C. F. De Arden	512,813	Jan. 16	1831	434	66	373
Elevator-gate-operating device	G. C. Hawkins	517,117	Mar. 27	2326	547	66	1936
Elevator-gate safety device	A. C. Beardsworth	520,103	May 22	2030	495	67	959
Elevator-guard	N. Levison	531,198	Dec. 18	1967	467	69	1603
Elevator guide-sheave	N. P. Otis	522,429	July 3	452	114	68	90
Elevator-indicator	F. Andrews	511,987	Jan. 2	432	102	66	82
Elevator-indicator	H. Rowntree	512,223	Jan. 2	819	{ 198 199 }	66	155
Elevator-legs. Means for operating	J. H. Finley	518,496	Apr. 17	1831	454	67	367
Elevator-motor. Electric	W. C. Fletcher	530,032	Nov. 27	2685	{ 645 646 }	69	1189
Elevator-motor. Electric	J. D. Ihlder	514,078	Feb. 6	162	38	66	885
Elevator-operating mechanism	M. H. Christopherson	526,771	Oct. 2	171	40	69	32
Elevator-platform	G. P. Wern	527,307	Oct. 9	1037	251	69	206
Elevator safety appliance	M. C. Fullenlove	524,979	Aug. 21	1719	421	68	1004
Elevator safety attachment	F. W. Jandell	521,589	June 19	1500	352	67	1500
Elevator safety-brake	T. Maybrick and W. J. Ashworth	526,931	Oct. 2	443	109	69	83
Elevator safety device	H. H. Day	515,661	Feb. 27	2772	690	66	1421
Elevator safety device	G. E. Dow	520,844	June 5	164	36	67	1227
Elevator safety device	F. T. Ellithorpe	527,171	Oct. 9	804	196	69	164
Elevator safety device	L. S. Graves	520,160	May 22	2152	524	67	979
Elevator safety device	G. C. Howard	519,844	May 15	1596	390	67	864
Elevator safety device	W. P. Kidder. (Reissue)	11,402	Jan. 30	3717	{ 915 916 }	66	837
Elevator safety device	W. P. Kidder	514,123	Feb. 6	229	53	66	897
Elevator safety device	W. P. Kidder	522,297	July 3	214	57, 58	68	43
Elevator safety device	W. P. Kidder	525,420	Sept. 4	175	45	68	1183
Elevator safety device	W. P. Kidder	525,421	Sept. 4	177	45	68	1183
Elevator safety device	W. P. Kidder	525,422	Sept. 4	179	46	68	1184
Elevator safety device	W. P. Kidder. (Reissue)	11,452	Nov. 13	1475	354	69	935
Elevator safety-gate	W. J. Snyder	519,139	May 1	351	83, 84	67	605
Elevator-shaft gate	T. G. Lamb and J. H. McClure	526,237	Sept. 18	1589	373	68	1465
Elevator-shafts. Door mechanism for	W. Bardsley and W. K. Crofford	516,695	Mar. 20	1602	{ 381 382 }	66	1783
Elevator-shafts. Door mechanism for	W. K. Crofford and W. Bardsley	516,699	Mar. 20	1609	383	66	1784
Elevator-table	J. G. Smith	526,505	Sept. 25	2073	494	68	1570
Elevator-ways. Automatic safety-guard for	J. Kobos	529,177	Nov. 13	1180	284	69	880
Elevator-well gates. Device for operating	C. F. De Arden	529,161	Nov. 13	1141	276	69	874
Elevators and elevator-gates. Safety attachment for	I. M. Hill	528,878	Nov. 6	653	156	69	765
Elevators. Apparatus for controlling electric	N. O. Lindstrom and O. P. Cummings	530,541	Dec. 11	839	207	69	1384
Elevators. Automatic stop device for hydraulic	H. R. Smith	523,242	July 17	1857	467	68	379
Elevators. Electric safety device for	R. W. Magrane	513,122	Jan. 23	2328	561	66	537
Elevators. Hydro-engine for operating	G. H. Reynolds	518,700	Apr. 24	2184	{ 546 547 }	67	445
Elevators. Means for counterbalancing	B. C. Keeler	514,009	Feb. 6	54	13	66	865
Elevators. Safety grip device for	H. R. Smith	530,971	Dec. 18	1559	{ 369 370 }	69	1528
Elevators. Swivel-spout for	D. A. Robinson	524,984	Aug. 21	1740	425	68	1009
Ellipsograph	J. A. Caldwell	530,822	Dec. 11	1304	315	69	1468
Ellipsograph	G. M. King	517,522	Apr. 3	172	39	67	35
Ellipsograph	W. Lehner	520,003	May 15	1855	453	67	911
Elliptic spring	W. H. Hansell	525,600	Sept. 4	468	112	68	1239
Elliptical spring	E. and J. J. Laass	517,106	Mar. 27	2308	544	66	1933
Embankments. Machine for building	W. G. Price	528,891	Nov. 6	669	{ 161 162 }	69	769
Embankments. Machine for building	W. G. Price	531,385	Dec. 25	2312	{ 551 552 }	69	1683
Embossing-machine	F. W. Maley	519,961	May 15	1784	437	67	899
Embroidering-machine	T. F. Barnum and J. McDermott	513,861	Jan. 30	3549	874	66	804
Embroidering-machine	J. Fischel	516,155	Mar. 6	676	{ 158 159 }	66	1579
Embroidering-machine	R. Spengler	514,138	Feb. 6	250	61	66	901
Embroidering-machine	R. Weiss	521,197	June 12	788	{ 184 185 186 }	67	1353
Embroidering-machines. Fabric-moving mechanism for	J. A. Groebli	528,632	Nov. 6	186	{ 48 49 50 }	69	680
Embroidery	J. Kobelt	530,595	Dec. 11	931	229	69	1401
Embroidery-hoop holder	F. Schulermann	512,909	Jan. 16	1998	473	66	405
Embroidery. Removing background from	G. Hauser	525,738	Sept. 11	729	168	68	1297
Embruyotome	C. Himrod	523,348	July 24	2036	512	68	430
Emery-wheel attachment	W. E. McGennis	523,367	July 24	2065	519	68	435

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Invention.	Name.	No.	Date	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Emery-wheel bearing	O. S. Walker	521,836	June 26	1922	461	67	1596
Emery-wheel. Elastic	D. B. Hyde	528,726	Nov. 6	352	86	69	710
Emery-wheels. Manufacture of	O. Terp	514,391	Feb. 6	695	66	954	66
Enamel for coating sheet-metal, &c	J. Henneman	517,454	Apr. 3	71	67	16	67
Enamel from metal. Removing	G. W. Goetz	528,156	Oct. 30	2497	69	520	69
Enamel or paint. Marine	C. H. Christman	531,610	Dec. 25	2701	69	1759	69
Enameled ironware and process of enameling	A. J. Vollrath	515,981	Mar. 6	401	93	66	1527
Enameled ironware. Making	A. J. Vollrath	515,508	Feb. 27	2526	66	1371	66
Enameling	W. C. Stewart	529,670	Nov. 20	2049	69	1059	69
Enameling ironware	A. J. Vollrath	515,507	Feb. 27	2524	625	66	1371
Enameling metal-ware	H. Claus	527,361	Oct. 9	1120	274	69	232
Enameling paper or other fabrics	W. H. H. Childs	517,732	Apr. 3	532	129	67	104
Enameling sheet-iron ware	T. Zwermann	517,992	Apr. 10	965	240	67	194
Enameling sheet metal and compound therefor	H. D. Quinby	519,968	May 15	1798	67	901	67
End-board chute for wagons	J. H. Irion	526,971	Oct. 2	495	121	69	93
End-gate	F. Setcinger	525,120	Aug. 28	1999	488	68	1071
End-gate and scoop-board fastening device	J. H. Moore	525,111	Aug. 28	1988	466	68	1068
End-gate-fastening device	C. A. Anderson	517,912	Apr. 10	813	204	67	171
End-gate rods. Die for making wagon	T. W. Smith and J. G. Price	520,837	June 5	152	33	67	1225
End-gate. Wagon	E. K. Hayes	517,649	Apr. 3	389	93, 94	67	75
End-gate. Wagon	C. Hotz	514,076	Feb. 6	158	37	66	884
End-gate. Wagon	L. C. Sweet	529,819	Nov. 27	2307	549	69	1116
End-gate. Wagon	G. E. and R. Stewart	525,633	Sept. 4	516	134	68	1247
End-gate. Wagon	F. F. Varling	524,741	Aug. 21	1324	324	68	934
Endograph	F. W. Haviland	512,025	Jan. 2	493	117	66	95
Engine:							
See Air and steam engine. Motor-engine.							
Beating-engine. Oil-engine.							
Blowing-engine. Paper-pulp-beating engine.							
Carding-engine. Petroleum, gas, or oil engine.							
Compound engine. Pulp-engine.							
Dental engine. Pumping-engine.							
Direct-acting engine. Reciprocating engine.							
Duplex engine. Rotary engine.							
Electro-hydrocarbon engine. Rotary steam-engine.							
Expansion-engine. Steam-engine.							
Explosive-engine. Steam or other fluid-pressure engine.							
Fire-engine. Steering-engine.							
Fluid-pressure engine. Traction-engine.							
Gas-engine. Vapor-engine.							
Gas-motor engine. Vibrating-piston engine.							
High-speed engine. Wind-engine.							
Locomotive engine. Winding-engine.							
Magnetic engine.							
Engine	L. C. Atwood and N. W. Perkins, Jr.	514,054	Feb. 6	125	29	66	877
Engine	P. Chouteau	519,147	May 1	367	87, 88	67	609
Engine	C. L. Lincoln	513,947	Jan. 30	3675	905	66	829
Engine	K. Moscicki	523,128	July 17	1655	{ 413 414 415 }	68	344
Engine	C. F. Sparks	528,818	Nov. 6	527	127	69	741
Engine	E. J. Woolf	521,278	June 12	929	220	67	1378
Engine	E. J. Woolf	531,285	Dec. 18	2132	511	69	1633
Engine	E. J. Woolf	531,286	Dec. 18	2134	{ 511 512 513 }	69	1634
Engine and superheater apparatus. Combined	J. C. Walker	531,488	Dec. 25	2495	{ 594 595 }	69	1718
Engine attachment	P. Chouteau	528,530	Nov. 6	13	5	69	649
Engine attachment	D. R. and F. M. Woodsum	519,488	May 8	994	240	67	739
Engine attachment. Steam	A. Normand	514,333	Feb. 6	613	{ 155 156 }	66	968
Engine brake. Mining	B. Yoch	529,991	Nov. 27	2615	627	69	1174
Engine-controlling mechanism	B. F. Teal	513,601	Jan. 30	3125	768	66	723
Engine cross-head	J. Begtrup	530,320	Dec. 4	429	107	69	1293
Engine cross-head	A. T. Snodgrass	524,074	Aug. 7	177	40	68	694
Engine cut-off. Steam	W. Jackaway	521,714	June 19	1706	{ 401 402 403 }	67	1541
Engine expansion-gear	M. H. Robinson	521,573	June 19	1469	{ 343 344 345 }	67	1495
Engine expansion-gear	M. H. P. R. Sankey	521,574	June 19	1471	{ 344 345 }	67	1495
Engine for operating clutches or other devices	J. K. Howe and J. Clark	530,994	Dec. 18	1595	379	69	1535
Engine-indicator attachment. Steam	W. Houghtaling	517,006	Mar. 20	2109	499	66	1878
Engine indicator. Steam	W. M. Dodd	511,760	Jan. 2	31	8	66	9
Engine indicator. Steam	W. M. Henderson	528,226	Oct. 30	2622	633	69	543
Engine indicator. Steam	F. Lane	530,433	Dec. 4	619	154	69	1328
Engine indicator. Steam	E. J. Rea	521,815	June 26	1889	452	67	1590
Engine indicator. Steam	H. A. Spiller	523,417	July 24	2147	539	68	449
Engine indicators. Reducing mechanism for steam	L. T. Snow and F. H. Pierpont	515,175	Feb. 20	1968	490	66	1255
Engine-pilot	J. Drake	528,152	Oct. 30	2491	603	69	519
Engine-reversing gear	D. H. Grant and H. Miller	524,201	Aug. 7	401	95	68	734
Engine-reversing gear	C. E. R. Martin	528,275	Oct. 30	2708	653	69	559
Engine reversing-gear. Steam	A. R. Lamb	514,479	Feb. 13	843	214	66	1030
Engine safety device	W. M. Wood	529,672	Nov. 20	2051	491	69	1059
Engine-shaft-rotation indicator	J. W. Ray	526,259	Sept. 18	1626	{ 381 382 383 }	68	1473
Engine speed-stop	B. F. Teal	528,746	Nov. 6	386	93	69	717
Engine starting apparatus. Gas	J. W. Raymond	521,551	June 19	1433	333	67	1488
Engine steam-chest	G. Cook	516,264	Mar. 13	869	203	66	1631
Engine steering-gear. Traction	G. W. Kramer	520,688	May 29	3043	737	67	1161
Engine steering mechanism. Traction	B. Jackson	529,495	Nov. 20	1766	{ 420 421 }	69	1006

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Engine stopping apparatus	N. E. Nash	529,297	Nov. 13	1386	{ 333 334 }	{ 69	917
Engine tender. Road	E. T. Wright	518,982	May 1	76	20	67	550
Engines. Continuous cut-off register for steam	C. H. Dale	526,383	Sept. 25	1857	{ 441 442 }	{ 68	1531
Engines. Electric igniter for gas	J. Low and J. W. Gow	515,297	Feb. 20	2182	541	66	1296
Engines. Electrical igniter for gas or hydrocarbon	P. A. N. Winand	525,828	Sept. 11	896	199	68	1326
Engines. Electrical igniting device for gas	A. J. Painter	523,369	July 24	2066	519	68	435
Engines. Gas-heater for internal-combustion	W. S. Elliott, Jr.	523,628	July 24	2514	632	68	515
Engines. Means for increasing crank-throw of steam	H. I. Schanck	526,584	Sept. 25	2189	523	68	1591
Engines. Reversible eccentric for	D. W. Kellogg. (Reissue)	11,419	May 15	1896	463	67	918
Engines. Starting appliance for compound	D. A. Wightman	522,544	July 3	622	{ 158 159 }	{ 68	122
Engines. Steam-chest for compound	E. W. Harden	527,388	Oct. 9	1168	{ 286 287 }	{ 69	232
Engines. Variable exhaust for	G. L. Thiell	522,864	July 10	1175	293	68	238
Engines with water or other cooling liquids. Apparatus for supplying jackets of gas	F. Hirsch	523,706	July 31	2668	{ 660 661 }	{ 68	559
Engineer's seat	E. H. McLaughlin	516,314	Mar. 13	941	221	66	1645
Engineer's tape-reel	J. H. Shedd	516,282	Mar. 13	895	211	66	1637
Engraving-machine	C. C. Bruckner	529,851	Nov. 27	2358	{ 563 564 }	{ 69	1125
Engraving-machine	H. A. Chase	517,680	Apr. 3	447	{ 108 109 }	{ 67	86
Engraving-machine	P. A. Coupal and P. A. Vogt	513,039	Jan. 16	2200	{ 526 527 }	{ 66	442
Engraving-machine	E. Fanshaw	527,677	Oct. 16	1643	396	69	333
Engraving-plates. Composition of matter for making chalk	J. L. Miller and W. T. Crosse	514,015	Feb. 6	62	15	66	866
Entomological specimens. Device for mounting	S. F. Denton	522,883	July 10	1197	299	68	242
Entrails. Machine for cutting and cleaning	H. Reyels and F. Ebert	519,685	May 8	1343	324	67	803
Envelope	W. Barnard	526,799	Oct. 2	213	51	69	41
Envelope	G. C. Billups	516,045	Mar. 6	513	119	66	1548
Envelope	M. Carey	531,302	Dec. 25	2166	518	69	1655
Envelope	C. M. Carnahan	531,431	June 12	1202	285	67	1430
Envelope	M. J. Cramer	531,760	June 19	1804	428	67	1556
Envelope	R. L. Dow	527,948	Oct. 23	2124	510	69	438
Envelope	W. H. Eldridge	519,444	May 15	1757	431	67	893
Envelope	J. E. Liebe and G. R. Merritt	513,021	Jan. 16	2180	520	66	438
Envelope	G. H. Martin	519,664	May 15	1634	398	67	871
Envelope	H. C. F. E. Snowman	531,281	Dec. 18	2122	509	69	1631
Envelope	A. J. Ritter	519,093	May 1	264	62	67	586
Envelope	S. Whybrew	519,367	May 8	791	193	67	705
Envelope and stationery case	N. Hebard	519,673	May 8	1316	315	67	798
Envelope-fastener	P. E. Gonon	513,568	Jan. 30	3077	756	66	714
Envelope, letter-sheet, circular, and casing. Combined	W. A. Wright	521,902	June 26	2040	492	67	1620
Envelope-machine	L. J. and M. J. Church	521,153	June 12	710	{ 166 167 168 }	{ 67	1338
Envelope-machine	J. and E. R. Corbett	525,536	Sept. 4	362	{ 89 90 91 }	{ 68	1218
Envelope-machine	E. Ermold and W. Hollis	513,491	Jan. 30	2933	722	66	688
Envelope-machine	C. H. Heywood	516,810	Mar. 20	1780	421	66	1815
Envelope-machine	C. H. Heywood	516,811	Mar. 20	1782	{ 421 422 }	{ 66	1816
Envelope-machine	C. H. Heywood	516,813	Mar. 20	1789	423	66	1817
Envelope-machine	J. R. McDonald	514,199	Feb. 6	378	90, 91	66	925
Envelope-machine	H. D. and D. W. Swift	520,147	May 22	2126	519	67	975
Envelope-machine elevator	C. H. Heywood	516,812	Mar. 20	1786	{ 422 423 424 }	{ 66	1816
Envelope making and printing machine	C. A. Teal	524,288	Aug. 7	535	{ 127 128 129 }	{ 68	758
Envelope. Money	C. H. Cameron	531,506	Dec. 25	2527	604	69	1724
Envelope-opener	A. O. Blomgren	530,920	Dec. 18	1468	348	69	1514
Envelope-opener	A. O. Blomgren	531,017	Dec. 18	1637	388	69	1543
Envelope. Safety	W. R. Dales	516,259	Mar. 20	1868	442	66	1834
Envelope. Safety	H. R. Horr and D. H. McFall	518,189	Apr. 10	1284	325	67	250
Envelope. Safety	C. F. Molly	526,112	Sept. 18	1375	321	68	1426
Envelope-machines. Journal-bearing for the gum-box rolls of	H. D. and D. W. Swift	511,819	Jan. 2	109	27	66	24
Envelopes. Adjustable perforator and cutter for business	P. H. Flynn	526,347	Sept. 18	1773	421	68	1503
Envelopes and note-sheets. Machine for making combined	J. H. Dale	512,565	Jan. 9	1304	{ 314 315 }	{ 66	258
Envelopes, letters, &c. Fastening device for	G. F. Lemmon	518,109	Apr. 10	1154	290	67	227
Envelopes. Machine for fixing threads in	M. Grube	515,524	Feb. 27	2556	634	66	1377
Eraser. Blackboard	A. J. Creamer	521,258	June 12	900	{ 212 213 }	{ 67	1373
Eraser. Blackboard	J. D. Kious	522,469	July 3	507	129	68	101
Eraser. Blackboard	W. H. Spence	511,812	Jan. 2	96	25	66	92
Eraser. Slate or blackboard	D. E. Dempsey	517,034	Mar. 27	2175	.....	66	1906
Escapement-wheel. Duplex	H. J. Eisen	515,862	Mar. 6	207	49	66	1491
Escapement-wheels. Making duplex	H. J. Eisen	515,861	Mar. 6	206	48	66	1491
Ether. Making	F. Krafft and A. Roos	516,766	Mar. 20	1720	.....	66	1804
Ethyl chlorid, &c. Receptacle for	J. Bengué	523,159	July 17	1704	428	68	352
Evaporating apparatus	T. Craney	528,859	Nov. 6	625	{ 147 148 }	{ 69	760
Evaporating apparatus	A. P. Leist	520,438	May 29	2613	{ 632 633 }	{ 67	1083

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Evaporating apparatus	T. J. Rayner	519,969	May 15	1799	441	67	901
Evaporating apparatus	H. See	529,533	Nov. 20	1835	{ 436	69	1019
Evaporating apparatus. Liquid	C. W. Cooper	521,946	June 26	2131	{ 510	67	1637
Evaporating apparatus. Liquid	W. J. Mirrlees and D. Ballingall	521,724	June 19	1724	{ 408	67	1544
Evaporating liquids in vacuo and apparatus therefor. Process of	S. M. Lillie	521,215	June 12	818	{ 410	67	1358
Evaporating-pan	T. Craney	525,486	Sept. 4	280	69, 70	68	1203
Evaporating-pan	H. F. Miller	518,962	May 1	40	11	67	544
Evaporating-pan	S. A. Poché	517,765	Apr. 3	590	145	67	114
Evaporator: See Salt-evaporator.							
Excavating and amalgamating machine. Combined	A. W. Robinson	526,056	Sept. 18	1274	{ 294	68	1408
Excavating and hoisting bucket	G. H. Williams	528,579	Nov. 6	95	{ 295	69	663
Excavating and refilling. System of	B. J. Coyle	518,394	Apr. 17	1666	{ 411	67	337
Excavating apparatus. Ditch	G. B. Christie, J. Lowe, and G. A. Lederle	521,700	June 19	1680	{ 412	67	1535
Excavating-bucket	C. W. Hunt	512,828	Jan. 16	1854	439	66	378
Excavating, ditching, or dredging machine	G. L. Lewis	531,199	Dec. 13	1968	467	69	1603
Excavating-machine	R. Dalton	530,916	June 5	301	73, 74	67	1232
Excavating-machine	C. H. Parker	525,617	Sept. 4	496	120	68	1244
Excavating or dredging bucket	C. W. Hunt	512,827	Jan. 16	1852	439	66	377
Excavating or dredging machine	J. E. A. Brann	517,726	Apr. 3	523	{ 126	67	101
Excavating trenches. Machine for	A. J. Mason	516,355	Mar. 13	1004	{ 127	66	1657
Excavator	G. P. Anderton	521,693	June 19	1672	392	67	1533
Excavator	J. P. Griffin	526,226	Sept. 18	1575	370	68	1463
Excavator	J. Oie	519,342	May 8	743	{ 183	67	695
Excavator	T. P. Smart	526,641	Sept. 25	2224	{ 184	68	1610
Excavator and elevator	H. P. Holland	521,883	June 26	1995	482	67	1611
Excavator dipper, scoop, or shovel	R. Thew	530,209	Dec. 4	230	57, 58	69	1257
Excavator shovel or scoop	R. Thew	530,210	Dec. 4	234	58	69	1258
Excelsior-cutting machine	W. W. Ryan	515,059	Feb. 20	1781	449	66	1219
Excelsior-cutting machine	C. G. Smith	530,732	Dec. 11	1165	{ 283	69	1441
Excelsior-cutting machine	C. G. Smith	531,342	Dec. 25	2234	{ 284	69	1667
Excelsior-cutting machine	C. H. Whitman	519,214	May 1	497	{ 534	67	634
Excelsior-cutting machine	L. J. Wohnlich	513,853	Jan. 30	3536	{ 121	66	801
Excelsior-machine	T. M. Shank	520,618	May 29	2911	871	67	1138
Exercising apparatus	G. A. Bowen	515,461	Feb. 27	2455	704	67	1138
Exercising apparatus	E. Grauert	522,891	July 10	1211	608	66	1358
Exercising machine	R. H. Bath	524,846	Aug. 21	1509	301	68	245
Exercising machine	W. J. O. Bryon, Jr	512,152	Jan. 2	709	369	68	967
Exercising machine	G. F. Poole	518,967	May 1	43	172	66	135
Exercising-machine	J. Strong	530,669	Dec. 11	1064	{ 43	67	545
Exhibit-case	M. Sherman and C. Goodman	516,454	Mar. 13	1187	{ 258	69	1423
Exhibiting device	W. C. Fawkes	522,979	July 17	1383	{ 259	66	1690
Exhibiting device. Automatic	B. J. Smith	519,484	May 8	986	{ 344	68	293
Exhibiting indicators, &c. Mechanism for	E. Davies	524,194	Aug. 7	383	{ 345	67	738
Exhibiting machine. Coin-controlled card	J. McFarland and G. H. Reid	519,062	May 1	103	91	68	731
Exhibiting machine. Combined card and dice	J. J. Watson	517,316	Mar. 27	2653	25	67	555
Exhibitor. Casket or coffin	W. P. Sherman	518,335	Apr. 17	1553	623	66	2000
Exhibitor. Coin-controlled	C. W. DeKnight	528,084	Oct. 23	2374	386	67	316
Exhibitor. Coin-controlled surface	V. P. DeKnight	523,569	July 24	2414	573	69	483
Exhibitor. Goods	D. B. English and S. H. Hinnant	513,383	Jan. 23	2739	604	68	497
Exhibitor. Window-shade	J. Storgiss	519,414	May 8	870	266	66	617
Expanding-tool	N. W. Pratt	527,155	Oct. 9	782	210	67	719
Expansible bit	E. Ford	525,386	Sept. 4	115	391	69	160
Expansible bolt	W. M. Levering	525,232	Aug. 28	2172	130	68	1171
Expansible cutter	J. H. Calkins	522,403	July 3	397	531	68	1101
Expansion-bit	R. H. Brown	530,923	Dec. 18	1472	102	68	78
Expansion-bolt	I. Church	527,406	Oct. 16	1198	249	69	1514
Expansion engine. Triple	E. W. Harden	516,434	Mar. 13	1149	394	69	251
Explosive	H. M. Chapman	516,295	Mar. 13	910	275	66	1683
Explosive and making same	W. Evelyn-Liardet	521,020	June 5	475	66	1639	
Explosive and making same	H. Kolf	521,345	June 12	1067	67	1282	
Explosive compound	G. J. Buechert	524,776	Aug. 21	1385	67	1405	
Explosive compound	B. C. Pettingell	525,996	Sept. 11	1175	68	945	
Explosive-engine	H. F. Fraser	526,348	Sept. 18	1777	68	1377	
Explosive. High-power	J. E. Blom	530,063	Nov. 27	2747	421	68	1503
Explosive. Smokeless	F. G. du Pont	522,978	July 17	1379	69	1199	
Extensible rack	E. W. Leach	526,450	Sept. 25	1995	{ 343	68	292
Extension-key	A. A. Dovey	517,038	Mar. 27	2182	{ 344	68	292
Extension-table	J. Bohr	522,101	June 26	2398	476	68	1556
Extension-table	A. Oberländer	531,211	Dec. 18	1994	516	66	1908
Extension-table	H. G. Schnarr	529,140	Nov. 13	1108	576	67	1685
Extension-table	M. H. Young and J. M. Mathews	521,905	June 26	2044	{ 473	69	1608
Extension-table. Center-revolving folding	H. Graham	528,250	Oct. 30	2667	{ 474	69	868
Extinguisher. Automatic	C. Streblow	526,875	Oct. 2	344	{ 492	67	1621
Extracting apparatus	W. T. Forbes	531,108	Dec. 18	1801	493	69	552
Extracting apparatus	C. F. Hood	530,893	Dec. 11	1418	428	69	1573

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Extractor:							
See Butter-extractor.	Nail-extractor.						
Continuous extrac-	Oil-extractor.						
tor.	Spout-extractor.						
Cork-extractor.	Stopper-extractor.						
Ingot-extractor.	Stump-extractor.						
Eye-guard. Ventilated	H. M. Tileston	513,603	Jan. 30	3133	769	66	724
Eyes. Apparatus for testing	C. M. C. Prentice	522,027	June 26	2279	{ 546 547 }	67	1663
Eyeglass folding frame	A. Brunner	531,095	Dec. 18	1776	423	69	1568
Eyeglass-frame connecting-spring	H. H. Hempler	515,146	Feb. 20	1923	482	66	1247
Eyeglass-holder	T. King	520,024	May 15	1896	463	67	918
Eyeglass-suspender	H. J. Green	527,147	Oct. 9	772	188	69	158
Eyeglasses.	G. W. Bennum	524,698	Aug. 21	1253	309	68	921
Eyeglasses.	G. W. Bennum and J. L. McKim	520,028	May 22	1903	464	67	935
Eyeglasses.	B. U. Bugbee and J. Reno	517,430	Apr. 3	14	3	67	5
Eyeglasses.	J. H. E. De Celles	527,268	Oct. 9	971	235	69	195
Eyeglasses.	I. Fox	527,275	Oct. 9	986	239	69	197
Eyeglasses.	H. E. Kirstein	527,611	Oct. 16	1536	373	69	313
Eyeglasses.	W. F. Kornemann	521,933	June 26	2103	504	67	1632
Eyeglasses. Device for securing	M. McDongall	529,402	Nov. 20	1587	377	69	975
Eyeglasses. Double	J. J. Wood	529,988	Nov. 27	2610	626	69	1174
Eyeglasses or spectacles	W. G. Beek	527,652	Oct. 16	1603	387	69	326
Eyeglasses or spectacles	H. E. Kirstein	527,612	Oct. 16	1538	373	69	614
Eyeglasses or spectacles. Bridge-spring for	B. A. Gilbert	527,745	Oct. 16	1757	423	69	354
Eyelet	E. L. Puppe	520,538	May 29	2780	672	67	1112
Eyelet for carriage and buggy curtains	D. C. Woolsey	528,500	Nov. 6	96	24	69	664
Eyelet for vehicles. Curtain-	C. D. Dickerson	523,199	July 17	1782	448	68	366
Fabric:							
See Chenille fabric.	Slat-and-wire fabric.						
Elastic fabric.	Tire fabric.						
Pile fabric.	Woven fabric.						
Seamless figured fabric.							
Fabric and forming same	G. Laveissiere and G. Chamont	525,557	Sept. 4	403	.....	68	1226
Fabric for ventilated packages.	W. H. Wright	514,610	Feb. 13	1065	266	66	1071
Fabric. Machine for making looped.	E. Murby	521,728	June 19	1730	411	67	1545
Fabric. Machine for making elat-and-wire	E. F. Gness	525,102	Aug. 28	1971	482	63	1066
Fabric-treating apparatus	J. Pollard	513,026	Jan. 16	2185	521	66	438
Fabrics. Compound for renovating	C. P. Andersen	524,410	Aug. 14	788	.....	68	822
Fabrics. Machine for raising the surface of textile	J. D. Tomlinson	526,421	Sept. 25	1941	463	68	1546
Fagots or piles. Apparatus for forming	J. F. Endke	522,645	July 10	808	202	68	172
Fan	A. T. Cwerdinski	523,762	July 31	2766	686	68	577
Fan	E. S. Grauel	527,423	Oct. 16	1225	301	69	255
Fan	P. Harnischfeger	512,293	Jan. 9	932	227	66	189
Fan	J. S. Mackie	526,929	Oct. 2	440	108	69	82
Fan	M. Rubin	519,554	May 8	1120	269	67	763
Fan attachment for swings, &c	C. M. Sherer	523,416	July 24	2146	538	68	449
Fan. Automatic	J. T. Vann	513,288	Jan. 23	2594	629	66	589
Fan. Centrifugal	V. D. Anderson	529,689	Nov. 27	2083	499	69	1076
Fan. Electric	C. Wachtel	525,730	Sept. 11	714	165	68	1294
Fan. Electric ventilating-	C. W. De Mott	517,214	Mar. 27	2491	586	66	1968
Fan-guard	A. W. Meston	515,405	Feb. 27	2369	588	66	1342
Fan mechanism. Fly	F. Lenoir and E. A. Seward	526,719	Oct. 2	82	22	69	18
Fan-motor. Ceiling	W. Hochhausen	512,821	Jan. 16	1845	437	66	376
Fan motor. Electric	F. X. Hofbauer	529,385	Nov. 20	1550	370	69	969
Fan motor. Suspended electric	J. F. Denison	516,524	Mar. 13	1314	313	66	1713
Fan. Rocking-chair	E. Methke and H. Schwalbe	513,809	Jan. 30	3464	853	66	786
Fan. Reciprocating	W. W. McCall	518,852	Apr. 24	2445	606	67	490
Fan. Revolving	I. D. Bover	517,428	Apr. 3	11	3	67	5
Fan. Sewing-machine	J. F. Billman	519,227	May 1	517	125	67	638
Fan. Suspension fly	J. L. Saxe	515,972	Mar. 6	386	89	66	1524
Fan. Ventilating	H. Hobbs	521,114	June 5	644	151	67	1313
Fan. Ventilating	W. H. McConnell and F. A. Ray	521,862	June 26	1962	473	67	1604
Fan. Ventilating	J. D. G. Thompson	525,928	Sept. 11	1060	241	68	1356
Fanning-mill	L. Staley	512,405	Jan. 9	1123	271	66	324
Fare-box	G. B. M. Harvey	529,383	Nov. 20	1547	369	69	969
Fare-box money-changer	C. W. Muth and H. Martin	515,920	Mar. 6	293	69.70	66	1508
Fare-indicator for cabs	O. Schneider	519,973	May 15	1805	443	67	902
Fare-recorder	A. Katzky	513,462	Jan. 23	2877	{ 707 706 }	66	643
Fare-register	F. C. Boyd and C. E. Gurdig	520,912	June 5	292	71.72	67	1251
Fare-register	E. Catlin and G. Rein	531,020	Dec. 18	1644	390	69	1514
Fare-register	C. Crook	516,081	Mar. 6	563	{ 131 132 }	66	1557
Fare-register	L. Ehrlich	523,930	July 31	3061	{ 764 765 }	68	632
Fare-register	J. W. Fowler, W. J. England, and A. E. Nielsen	527,387	Oct. 9	1165	{ 285 286 }	69	231
Fare-register	A. Pfaff	529,803	Nov. 27	2265	541	69	1107
Fare-register	C. E. Pratt	512,057	Jan. 2	542	128	66	104
Fare-register	E. T. Taylor	515,898	Mar. 6	241	57.58	66	1499
Fare-register	E. T. Taylor	531,231	Dec. 18	2034	485	69	1615
Fare register and recorder	C. S. Sergeant and L. J. Hirt	523,446	July 24	2300	{ 554 555 }	68	458
Fare-register operating device	M. T. Graf	527,018	Oct. 2	568	138	69	107
Fare-register. Street-car	E. H. Duchemin	523,660	July 31	2566	{ 642 643 }	68	542
Farm-gate	A. Gano	524,849	Aug. 21	1513	370	68	907
Farm-gate	J. D. Pine	525,230	Aug. 23	2183	533	68	1103
Farm-gate	W. H. H. West	514,102	Feb. 6	198	46	66	892
Farm-gate	J. Woods	525,674	Sept. 4	594	142	68	1260
Farrowing-booth for brood-sows	W. Johnston	513,186	Jan. 23	2423	585	66	556
Fastener. Adjustable	J. A. Boyver	519,831	May 15	1577	386	67	860
Fastener. Corrugated	F. W. Starr	528,569	Nov. 6	83	21	69	661

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Fastener for glass or other vessels	C. Fischer	515,579	Feb. 27	2643	656	66	1395.
Fastener. Metallic	G. W. McGill	512,620	Jan. 9	1472	355	66	290
Fastener. Metallic	G. W. McGill	512,621	Jan. 9	1473	356	66	290
Fastening device	B. S. Hoyt	519,504	May 8	1019	247	67	745
Fastening device	W. H. Payne	515,094	Feb. 20	1830	462	66	1230
Fastening device	F. W. Starr	525,748	Sept. 11	741	{ 171 172 }	68	1299.
Fastening device	J. Zeiser and F. A. Leeman	521,861	June 26	1961	473	67	1604
Fastening device for tubs, boxes, &c.	F. T. Bradish	517,836	Apr. 10	691	173	67	149
Fat and glue. Apparatus for extracting ..	F. J. Machalski	516,769	Mar. 20	1725	406	66	1804
Fat. Compound edible	A. W. Winter	519,980	May 15	1818	...	67	904
Fat. Reducing animal	J. Lister	526,322	Sept. 18	1738	411	68	1496.
Fats from animal or vegetable substances. Extract- ing	A. Schweizer	520,743	May 29	3127	757	67	1176.
Fats. Making edible	J. H. Filbert	522,409	July 3	405	104	68	50.
Faucet	F. H. Burrill	525,589	Sept. 4	452	108	68	1235
Faucet	D. Devlin	513,092	Jan. 23	2272	549	66	525.
Faucet	C. H. Duntun	525,948	Sept. 11	1086	248	68	1361
Faucet	A. Hurst and J. I. Boyer	516,438	Mar. 13	1157	277	66	1684
Faucet	W. D. King	525,500	Sept. 4	800	74	68	1207
Faucet	W. J. Oswald	519,508	May 8	1024	248	67	745
Faucet	A. C. Shaw	530,663	Dec. 11	1053	256	69	1422
Faucet	M. E. Spofford	519,049	May 1	179	43	67	571
Faucet	W. Wrigley	515,810	Mar. 6	133	32	66	1478
Faucet and nozzle combined	M. L. and H. L. Bergman	513,475	Jan. 30	2901	715	66	682
Faucet attachment	J. Bolgiano	519,521	May 8	1069	257	67	754
Faucet. Beer	G. A. F. Streuber	519,931	May 15	1735	425	67	889
Faucet-bung	D. Beebe	530,255	Dec. 4	315	79	69	1272
Faucet. Can	G. W. Banker	520,840	June 5	157	35	67	1226
Faucet. Can	W. A. James	519,534	May 8	1093	262	67	758
Faucet for supplying hot or cold water ..	G. H. Cole	531,585	Dec. 25	2655	636	69	1750
Faucet. Measuring	P. B. Bassett	513,069	Jan. 23	2243	541	66	519
Faucet. Oil-can	G. W. Arper	521,491	June 19	1335	310	67	1471
Faucet. Oil-can	B. F. Warren	528,244	Oct. 30	2655	640	69	549
Faucet register-gage	A. W. Meyer	529,040	Nov. 13	938	222	69	837
Faucet. Self-closing	W. A. Turner	531,434	Dec. 25	2487	592	69	1716
Faucet. Sirup-jar	F. H. Lippincott	526,578	Sept. 25	2181	521	68	1590
Feather-dressing machine	J. H. McConnell	527,619	Oct. 16	1547	375	69	315
Feathers. Machine for separating or sorting ..	L. H. Lorch	514,372	Feb. 6	669	169	66	979
Feed and driving mechanism. Frictional ..	F. M. Ketton and C. W. Hollis	512,196	Jan. 2	775	189	66	147
Feed-bag	E. D. Bean	513,865	Jan. 30	3557	875	66	805
Feed-box	N. Cobb	513,557	Jan. 30	3057	753	66	710
Feed-box	J. H. Denison	516,922	Mar. 20	1975	464	66	1852
Feed-box. Folding	R. H. Schmidt	514,203	Feb. 6	389	92	66	927
Feed-cutter	J. K. Wilder	529,768	Nov. 27	2211	527	69	1097
Feed mechanism	J. R. Thomas	512,410	Jan. 9	1131	{ 273 274 }	66	226
Feed mechanism. Automatic	J. Roger	522,935	July 10	1302	{ 324 325 }	68	262
Feed mechanism. Self-adjusting	C. A. Juengst	512,972	Jan. 16	2106	500	66	424
Feed-mill	N. P. Bowsher	522,070	Oct. 23	2341	565	69	477
Feed-mill	J. O. Smith	518,123	Apr. 10	1177	295	67	231
Feed-regulator	J. A. McNulty	526,254	Sept. 18	1621	380	68	1472
Feed-roll. Sectional	W. S. McCay and L. V. Moulton	523,290	July 17	1931	485	68	394
Feed-rolls. Device for weighting	C. C. Stuart	520,582	May 29	2858	691	67	1128
Feed-trough	W. Ederle	519,368	Jan. 9	1053	257	66	210
Feed-trough	A. Greer	528,871	Nov. 6	643	153	69	764
Feed-trough	W. H. Wellstead	516,339	Mar. 13	931	233	66	1652
Feed-water and gas supply regulator	H. A. and H. A. House, Jr.	521,166	June 12	734	174	67	1343
Feed-water for steam-boilers. Purifying ..	C. Stickle	526,330	Sept. 18	1750	415	68	1498
Feed-water heater	J. Bell	516,426	Mar. 13	1135	270	66	1620
Feed-water heater	H. Blake	523,616	July 24	2490	625	68	511
Feed-water heater	J. G. Calvert	518,019	Apr. 10	1005	{ 252 253 }	67	202
Feed-water heater	E. G. T. Colles	512,806	Jan. 16	1814	{ 430 431 }	66	370
Feed-water heater	B. Eynon	521,708	June 19	1696	398	67	1539
Feed-water heater	B. Hall	516,349	Mar. 13	996	237	66	1655
Feed-water heater	W. L. Harvey	524,590	Aug. 14	1065	263	68	873
Feed-water heater	H. G. Keasbey	523,551	Sept. 4	393	95	68	1224
Feed-water heater	H. G. Keasbey	523,552	Sept. 4	395	96	68	1224
Feed-water heater	F. W. Lycett	526,188	Sept. 18	1505	352	68	1449
Feed-water heater	E. A. Thuston	512,634	Jan. 9	1491	360	66	293
Feed-water heater and cinder-consumer ..	C. F. Hirt	523,350	July 24	2038	512	68	430
Feed-water heater and fuel-saver	W. N. Morris and R. H. Smith	526,727	Oct. 2	95	24	69	20
Feed-water heater and purifier	E. G. T. Colles	523,325	July 24	1992	501	68	422
Feed-water heater and purifier	E. G. T. Colles	523,326	July 24	1997	502	68	423
Feed-water heater and purifier	J. G. Cooper	514,814	Feb. 13	1394	351	66	1135
Feed-water heater and purifier	F. Diehl	521,337	June 12	1048	246	67	1402
Feed-water heater and purifier	R. G. McAuley	514,954	Feb. 20	1619	{ 406 407 }	66	1192
Feed-water heater and purifier	C. W. McDaniel	520,211	May 22	2241	{ 545 546 }	67	996.
Feed-water heater and purifier	W. Shedlock	520,084	May 22	2002	{ 489 490 }	67	954
Feed-water heater and purifier	W. Webster	524,152	Aug. 7	320	75	68	720
Feed-water heater and purifier. Combined ..	E. G. T. Colles	522,006	June 26	2252	540	67	1657
Feed-water heater and receiver. Combined ..	E. G. T. Colles	512,807	Jan. 16	1818	{ 431 432 }	66	371
Feed-water heater and regulator	P. Browne	516,518	Mar. 13	1307	{ 310 311 }	66	1711
Feed-water heater and steam-generator	D. Myers	526,841	Oct. 2	282	68	69	54
Feed-water heater, purifier, and separator ..	D. Cochrane	530,749	Dec. 11	1191	290	69	1447
Feed-water. Heating	G. M. Mullen	513,409	Jan. 23	2779	679	66	624.

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	De'g.	Vol.	Page.
Feed-water-pipe heater	J. C. Shaw	517,771	Apr. 3	601	147	67	116
Feed-water purifier	S. L. Bailey	523,318	Oct. 30	2782	671	69	572
Feed-water purifier	S. L. Bailey	523,512	Oct. 30	3114	755	69	632
Feed-water purifier	M. S. Cabell	523,851	Nov. 6	603	143	69	756
Feed-water regulator	C. B. Bosworth	530,388	Dec. 4	551	137	69	1316
Feed-water regulator	H. Bowman	525,484	Sept. 4	278	68	68	1203
Feed-water regulator. Automatic	J. E. Chafer	512,804	Jan. 16	1809	430	66	369
Feeder for animals. Time	J. A. Michael	523,405	July 24	2130	535	68	446
Feeder. Poultry	J. G. Whitten	513,747	Jan. 30	3372	831	66	767
Feeder to prevent scale. Automatic	J. V. Motter	525,504	Sept. 4	306	75	68	1209
Feeding and housing device. Stock	O. W. Mapes	513,806	Jan. 30	3457	852	66	784
Feeding and watering live stock. Device for	A. C. Winch	519,935	May 15	1741	{ 426 427 }	{ 67 67 }	{ 890 890 }
Felly. Bicycle-wheel	A. P. Squires	521,187	June 12	772	181	67	1350
Felly-cutting machine. Wagon	J. P. Walter	523,389	July 24	2096	{ 527 528 }	{ 68 68 }	{ 441 441 }
Felly joint. Wheel	W. F. Morton	529,131	Nov. 13	1090	263	69	865
Felly-wheel	J. T. Mosely	521,385	June 12	1125	265	67	1417
Felting-machine	R. Heaton	527,283	Oct. 9	998	242	69	199
Fence	S. C. Bower	530,504	Dec. 11	761	186	69	1371
Fence	R. J. Carr	530,391	Dec. 4	555	138	69	1316
Fence	P. H. Christie	521,759	June 19	1802	427	67	1556
Fence	O. E. Churchill and C. W. Bennett	519,420	May 8	878	213	67	720
Fence	J. Donnell	527,780	Oct. 23	1819	438	69	383
Fence	J. C. Fraser	529,067	Nov. 13	985	234	69	845
Fence	D. D. Frisbee	519,995	May 15	1845	451	67	909
Fence	J. M. Fulmer	514,922	Feb. 20	1574	395	65	1183
Fence	E. A. Goehring	517,921	Apr. 10	823	203	67	174
Fence	W. M. Grisham	524,464	Aug. 14	868	214	68	837
Fence	J. C. Groseclose	513,104	Jan. 23	2239	554	66	529
Fence	W. H. Hanson	523,571	July 24	2419	606	68	498
Fence	D. P. Henninger	514,366	Feb. 6	661	167	66	977
Fence	C. M. Kiler	512,855	Jan. 16	1961	465	66	398
Fence	J. H. Long	526,927	Oct. 2	438	108	69	82
Fence	J. W. Moore	512,047	Jan. 2	526	124	66	101
Fence	R. L. Paris	528,687	Nov. 6	300	73	69	700
Fence	C. F. Parks and A. A. Hamilton	526,500	Sept. 25	2068	492	68	1569
Fence	G. H. Perkins	520,217	May 22	2253	548	67	998
Fence	J. E. Phillips	517,659	Apr. 3	415	100	67	80
Fence	J. C. Quinby	518,896	Apr. 24	2527	625	67	506
Fence	D. A. Richardson	515,019	Feb. 20	1715	431	66	1309
Fence	G. C. Snyder	521,275	June 12	923	219	67	1377
Fence	D. H. Talbert	519,743	May 15	1433	346	67	833
Fence	D. W. Thomas	528,828	Nov. 6	554	132	69	747
Fence	T. S. Williams	515,389	Feb. 27	2346	582	66	1338
Fence	W. Windus	514,250	Feb. 6	480	117	66	943
Fence and gate. Iron	I. K. Hollinger	528,164	Oct. 30	2508	606	69	522
Fence. Barbed-wire	L. Herveyer	517,548	Apr. 3	216	49	67	43
Fence-building and repairing device. Wire-and-picket	M. Stephens and S. O. Koons	516,237	Mar. 13	824	193	66	1622
Fence-building machine	C. Neate	528,303	Oct. 30	2757	666	69	567
Fence-clamp. Wire	G. E. Boots and W. O. Eakright	526,123	Sept. 18	1394	324	68	1429
Fence compensator. Wire	P. Herman	529,649	Nov. 20	2011	482	69	1052
Fence. Farm	G. Russell	524,737	Aug. 21	1319	322	68	933
Fence-fastener	J. Harris	526,311	Sept. 18	1719	406	68	1492
Fence. Flood	J. W. Story	528,821	Nov. 6	544	130	69	745
Fence gate. Wire	W. W. Halladay	514,319	Feb. 6	594	150	66	964
Fence. Hedge	E. A. Terhune	524,032	Aug. 7	108	23	68	682
Fence. Iron	T. J. Fariss	518,837	Apr. 24	2423	600	67	485
Fence lock. Farm	S. M. Hasson	516,929	Mar. 20	1935	466	66	1854
Fence-machine	G. A. Dentelbeck	523,975	Aug. 7	11	4	68	665
Fence-machine	M. Gleason	525,495	Sept. 4	292	72	68	1206
Fence-machine	O. H. Page	528,794	Nov. 6	480	117	69	733
Fence-machine	W. C. Shoemaker	522,125	June 26	2436	586	67	1692
Fence-machine	W. T. Snipinger	513,371	Jan. 23	2721	{ 660 661 }	{ 66 66 }	{ 613 613 }
Fence-machine. Hand	W. H. Martin	512,732	Jan. 16	1655	{ 397 398 }	{ 66 66 }	{ 340 340 }
Fence-machine. Hand	E. Warner	517,252	Mar. 27	2549	598	66	1979
Fence machine. Slat-and-wire	A. J. Haley	513,503	Jan. 30	2955	727	66	692
Fence machine. Wire	V. T. Briggs	517,837	Apr. 10	692	{ 173 174 175 176 }	{ 67 67 67 67 }	{ 149 149 149 149 }
Fence machine. Wire	F. H. Daniels	528,764	Nov. 6	423	103	69	724
Fence machine. Wire	J. C. Ferris	516,803	Mar. 20	1769	418	66	1813
Fence machine. Wire	A. J. Forsythe	519,603	May 8	1203	290	67	778
Fence machine. Wire	J. P. Hiatt	522,899	July 10	1235	{ 306 307 }	{ 68 68 }	{ 250 250 }
Fence machine. Wire	W. P. Randall	518,426	Apr. 17	1722	429	67	347
Fence machine. Wire	H. H. Van Ormer	524,657	Aug. 14	1120	290	68	895
Fence machine. Wire-and-picket	G. E. Simmons	520,544	May 29	2792	{ 674 675 }	{ 67 67 }	{ 1114 1114 }
Fence machine. Wire-and-slat	A. W. Lane	520,321	May 22	2418	588	67	1030
Fence-making machine	J. Combs	513,886	Jan. 30	3593	885	66	812
Fence-making machine	P. J. Regan	527,370	Oct. 9	1139	278	69	226
Fence. Metal	G. D. Hamilton	519,573	May 8	1155	278	67	769
Fence-pickets. Machine for wiring	J. A. Salzman	524,612	Aug. 14	1110	{ 273 274 }	{ 68 68 }	{ 882 882 }
Fence. Portable	W. M. Cook	527,773	Oct. 23	1802	434	69	380
Fence. Portable	B. J. Leslie	518,039	Apr. 10	1048	266	67	208
Fence. Portable	P. G. Trent, Sr	511,978	Jan. 2	419	97.98	66	80
Fence. Portable sectional	A. H. Cook	530,068	Nov. 27	2755	661	69	1201
Fence. Portable worm	C. B. Wilcox	521,627	June 19	1565	365	67	1512
Fence-post	C. E. Bronson and L. Heiland	513,451	Jan. 23	2854	700	66	638

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Fence-post.....	H. J. Coe.....	524,018	Aug. 7	83	19	68	678
Fence-post.....	P. C. Cretcher and J. R. Miller.....	521,849	June 26	1940	465	67	1599
Fence-post.....	C. Gros and J. F. Thomas.....	521,110	June 5	639	150	67	1312
Fence-post.....	S. P. Iddings.....	528,674	Nov. 6	280	68	69	696
Fence-post.....	C. M. Kiler.....	513,115	Jan. 23	2317	558	66	534
Fence-post.....	E. J. McCullough.....	520,656	May 29	2970	718	67	1148
Fence-post.....	M. Rhoades and C. L. Fluck.....	523,905	July 31	3014	749	68	623
Fence-post.....	R. B. Robbins.....	525,119	Aug. 28	1998	488	68	1071
Fence-post.....	D. W. Sigler.....	514,569	Feb. 13	987	250	66	1057
Fence-post.....	C. Sliker.....	516,232	Mar. 13	818	191	66	1621
Fence-post.....	A. Stoner.....	517,200	Mar. 27	2467	581	66	1963
Fence-post.....	U. G. Thompson and C. Wain.....	525,433	Sept. 4	195	49	68	1187
Fence-post base.....	J. H. Cooper.....	519,445	May 8	915	221	67	727
Fence-post. Metallic.....	M. H. Baer.....	522,818	July 10	1118	277	68	226
Fence-post. Metallic.....	G. P. Gunn.....	512,371	Jan. 9	1057	258	66	211
Fence-post-molding machine.....	W. Bayley.....	513,751	Jan. 30	3376	832	66	768
Fence-post. Pressed-steel.....	C. T. Schoen.....	530,725	Dec. 11	1155	280	69	1430
Fence-post support.....	C. P. Reist.....	513,200	Jan. 23	2446	591	66	559
Fence-posts. Machine for making metallic.....	M. H. Baer.....	520,289	May 22	2370	575	67	1020
Fence. Rail.....	M. S. Smith.....	513,344	Jan. 23	2676	649	66	605
Fence ratchet. Wire.....	J. E. Betz.....	524,775	Aug. 21	1384	337	68	945
Fence. Smooth-wire.....	W. J. Oller.....	514,959	Feb. 20	1025	408	66	1193
Fence-stay.....	W. D. Albright.....	530,916	Dec. 18	1464	347	69	1513
Fence-stay. Wire.....	A. F. Dickey.....	530,069	Nov. 27	2757	661	69	1201
Fence-stay. Wire.....	D. B. Younce.....	530,981	Dec. 18	1577	374	69	1532
Fence-stretcher. Wire.....	C. F. Corns and S. W. Jenks.....	523,329	July 24	2007	505	68	425
Fence tension device. Wire.....	H. C. Pratt.....	514,130	Feb. 6	241	58	66	900
Fence tightener. Wire.....	P. A. Leyner.....	526,718	Oct. 2	81	21	69	18
Fence-tightening implement.....	G. D. Lockwood.....	522,164	June 26	2511	603	67	1706
Fence tool. Grip wire.....	S. S. Casey, H. M. Kay, and H. A. Stringer.....	512,360	Jan. 9	1038	254	66	208
Fence-winding device. Wire.....	I. V. Adair.....	519,103	May 1	280	66	67	589
Fence. Wire.....	L. C. Allen.....	515,316	Feb. 27	2233	551	66	1315
Fence. Wire.....	J. W. Alverson.....	523,543	Nov. 20	1852	441	69	1022
Fence. Wire.....	H. M. Anderson.....	514,894	Feb. 20	1533	383	66	1176
Fence. Wire.....	E. D. Barling.....	526,368	Sept. 18	1825	43	68	1513
Fence. Wire.....	C. W. Bennett and F. Chapman.....	517,423	Apr. 3	4	2	67	3
Fence. Wire.....	M. Berdan.....	521,328	June 12	1021	240	67	1395
Fence. Wire.....	C. W. Berkes and P. Lesch.....	526,372	Sept. 25	1834	435	68	1527
Fence. Wire.....	S. C. Bowen.....	517,209	Mar. 27	2483	584	66	1966
Fence. Wire.....	J. W. Buchanan.....	519,759	May 15	1458	353	67	837
Fence. Wire.....	H. Buck.....	528,627	Nov. 6	181	44	69	679
Fence. Wire.....	G. M. Depew.....	525,448	Sept. 4	226	55, 56	68	1192
Fence. Wire.....	D. Garst.....	525,701	Sept. 11	660	154	68	1285
Fence. Wire.....	D. Hershey and H. Buck.....	523,347	July 24	2035	511	68	429
Fence. Wire.....	L. J. Ives.....	522,375	July 3	342	87, 88	68	68
Fence. Wire.....	J. H. Landis.....	512,722	Jan. 16	1643	395	66	337
Fence. Wire.....	J. and C. Lane.....	518,506	Apr. 17	1857	460	67	371
Fence. Wire.....	G. Lehberger. (Reissue).....	11,445	Oct. 9	1184	291	69	235
Fence. Wire.....	C. R. Pickett.....	529,833	Nov. 27	2325	553	69	1119
Fence. Wire.....	H. C. Pratt.....	528,109	Oct. 23	2415	584	69	490
Fence. Wire.....	E. L. Schanck.....	519,928	May 15	1728	424	67	888
Fence. Wire.....	E. S. Scofield and J. J. Jennings.....	530,244	Dec. 4	297	73	69	1269
Fence. Wire.....	J. J. Shalvey.....	522,355	July 3	306	79	68	61
Fence. Wire.....	E. F. Shellabarger.....	522,536	July 3	612	156	68	120
Fence. Wire.....	H. W. Vail, Jr.....	530,250	Dec. 4	307	77	69	1271
Fence. Wire.....	S. S. Young.....	521,304	June 12	982	232	67	1338
Fence-wire. Braided.....	J. B. Cleaveland.....	516,886	Mar. 20	1910	451	66	1242
Fence-wire carrier and stretcher.....	W. H. Merritt.....	518,672	Apr. 24	2141	535	67	437
Fence-wire-fastening device.....	F. H. Knapp.....	514,557	Feb. 13	967	244	66	1053
Fence-wire. Machine for stretching or removing.....	W. M. Barger.....	520,475	May 29	2677	646	67	1094
Fence-wire ratchet.....	G. W. Williams.....	514,106	Feb. 6	204	47	66	893
Fence-wire stretcher.....	M. Dixon.....	513,989	Feb. 6	27	6	66	860
Fence-wire stretcher.....	B. Doud.....	524,582	Aug. 14	1054	260	68	872
Fence-wire stretcher.....	L. Wyssluger and M. H. Baer.....	516,040	Mar. 6	505	117	66	1546
Fence-wire-stretching device.....	J. Stevens and A. Case.....	514,288	Feb. 6	538	132	66	955
Fence-wire tightener.....	F. R. Conner.....	529,709	Nov. 27	2114	507	69	1081
Fence-wire tightener.....	L. J. Michaels.....	520,325	May 22	2424	590	67	1031
Fence-wire tightener.....	I. K. Hollinger.....	515,936	Mar. 6	318	76	66	1512
Fence-wire tightener.....	I. M. Ulsh.....	513,844	Jan. 30	3519	866	66	798
Fence-wire-tightening device.....	H. Buck.....	519,940	May 15	1749	429	67	892
Fence-wire. Twisting-tool for.....	J. Borton.....	512,940	Jan. 16	2055	486	66	414
Fences. End post for wire.....	J. M. Phelps.....	523,992	Aug. 7	44	10	68	670
Fences. Implement for weaving filler-wires in wire.....	L. A. Greeley.....	519,154	May 1	388	94	67	612
Fences. Machine for weaving cross-wires in wire.....	F. W. Shellaburger.....	523,415	July 24	2145	538	68	449
Fences. Metallic post and fastener for wire.....	E. F. Saxton.....	523,799	July 31	2832	704	68	589
Fences. Pliers for building wire.....	A. Biggs, Sr.....	511,991	Jan. 2	438	103	66	84
Fences. Tool for building wire.....	L. C. Highsmith.....	519,710	May 15	1386	334	67	824
Fencing. Machine for making barbed-wire.....	E. S. Lenox.....	529,036	Nov. 13	927	220	69	834
Fencing. Machine for making wire.....	J. D. Curtis.....	514,671	Feb. 13	1166	290	66	1090
Fencing tool. Wire.....	J. M. Barclay.....	524,125	Aug. 7	269	63	68	711
Fencing. Wire.....	J. D. Curtis.....	514,672	Feb. 13	1168	291	66	1091
Fencing-wire.....	J. B. Cleaveland.....	522,826	July 10	1130	280	68	229
Fencing-wire.....	G. C. Wright.....	517,256	Mar. 27	2557	599	66	1981
Fender:							
See Car-fender. Door-fender.							
Car or locomotive Pen-fender.							
fender. Plow-fender.							
Car wheel-fender. Safety-fender.							
Fender.....	J. M. Cable.....	531,155	Dec. 18	1889	448	69	1589

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Fermentation. Apparatus for preventing	J. R. Power	513,199	Jan. 23	2445	{ 590	66	559
Fermenting mixtures. Apparatus for preparing and manipulating	B. Schumm	514,340	Feb. 6	623	{ 591	66	970
Ferrule	W. H. Gaskill	521,342	June 12	1063	249	67	1404
Ferrule	W. H. Gaskill	521,765	June 19	1811	429	67	1558
Ferrule-machine	W. Cannell	522,647	July 10	812	203	68	172
Fertilizer	S. B. Schenck	517,486	Apr. 3	110	---	67	25
Fertilizer-distributor	D. M. Averitt	524,455	Aug. 14	855	210	63	835
Fertilizer-distributor	F. G. Hoffheims	523,856	July 31	2937	732	68	609
Fertilizer-distributor	G. W. Murray	520,889	June 5	248	58, 59	67	1242
Fertilizer-distributor	L. Roat	525,922	Sept. 11	1053	239	68	1355
Fertilizer-distributor feed	B. M. Root	512,906	Jan. 16	1991	472	66	404
Fertilizer. Mineral	E. Gulick	522,561	July 3	658	---	68	129
Fertilizer. Phosphatic	N. B. Powter	517,661	Apr. 3	417	---	67	80
Fertilizers. Converting hair into	J. J. Seldner	514,042	Feb. 6	107	---	66	874
Fertilizers from waste lyes. Obtaining	L. Tralls	528,999	Nov. 13	871	---	69	825
Fertilizers. Making	N. B. Powter	517,662	Apr. 3	418	---	67	80
Fertilizers. Making	E. Records	527,810	Oct. 23	1865	---	69	391
Fertilizers. Making	J. J. Seldner	514,043	Feb. 6	108	---	66	874
Fertilizers. Making	C. Weigelt	521,813	Aug. 21	1443	---	68	956
Fertilizers. Making phosphatic	J. Gregory	515,708	Feb. 27	2832	---	66	1435
Fiber brake, crusher, and cleaner	J. F. Lester	512,259	Apr. 17	1417	355	67	292
Fiber-disintegrating machine	J. R. Carter	515,193	Feb. 20	1993	496	66	125
Fiber-drier	F. G. and A. C. Sargent	521,824	June 26	1904	457	67	1593
Fiber-drier	F. G. and A. C. Sargent	525,967	Sept. 11	1131	257	68	1370
Fiber-drying apparatus	W. Saulmann	526,201	Sept. 18	1536	{ 360	68	1455
Fiber-drying machine	F. G. and A. C. Sargent	517,721	Oct. 16	1714	413	69	347
Fiber-feeding machine	A. H. Morton	518,419	Apr. 17	1706	{ 424	67	345
Fiber from agaves, &c. Machine for extracting	E. Samper	524,956	Aug. 21	1681	{ 425	68	997
Fiber-separating machine	M. A. Clennam	512,663	Jan. 16	1926	{ 455	66	391
Fibers and recovering sulfurous gases employed therein. Apparatus for disintegrating	H. Blackman	530,634	Dec. 11	997	{ 456	69	1413
Fibers of reed-cane. Separating	T. E. Phillips	514,027	Feb. 6	82	---	66	870
Fibers of reed-cane. Separating	T. E. Phillips	514,028	Feb. 6	83	---	66	870
Fibrous material. Molding vegetable	B. McCabe and A. Thayer	530,958	Dec. 18	1533	---	69	1525
Fibrous sheets. Softening	J. C. McLaughlin	511,789	Jan. 2	73	---	66	17
Fifth-wheel	W. F. Kramer and C. F. Weinman	526,494	Sept. 25	2060	490	68	1567
Fifth-wheel	S. K. Paden	525,995	Sept. 11	1173	267	68	1377
Fifth-wheel	D. Wilcox	523,252	July 17	1875	470	68	383
Fifth-wheel. Vehicle	R. Carr	518,6-8	Apr. 24	2163	541	67	441
Fifth-wheel. Vehicle	J. A. Gorgas	512,695	Jan. 16	1605	325	66	330
File	J. E. Austrian	512,267	Jan. 9	887	214	66	180
File	W. H. Morden	526,726	Oct. 2	93	23	69	20
File. Account	J. U. Parrey	531,271	Dec. 18	2102	505	69	1627
File and press-copy book. Combined letter	M. E. Stephenson	523,754	July 31	2754	{ 683	68	575
File and scissors. Combined nail	W. W. Hayden	515,828	Mar. 6	158	38	66	1483
File and the like provided with pins and devices for securing papers thereon. Paper	M. Kragen	513,331	Jan. 23	2656	644	66	601
File. Bill	J. M. D. France	514,921	Feb. 20	1573	395	66	1182
File. Bill	W. O. Gottwals	527,277	Oct. 9	989	239	69	194
File. Bill	W. O. Gottwals	527,278	Oct. 9	990	240	69	198
File. Bill	O. Hossfeld and P. Küssner	528,947	Nov. 13	795	{ 185	69	111
File-blanks. Machine for stripping	A. Weed	530,143	Dec. 4	111	29	69	1235
File-case	D. A. Drake	527,949	Oct. 23	2125	510	69	438
File-case	D. Sexton	522,237	July 3	107	25	68	21
File case or cabinet	P. J. Pauly, Jr.	526,615	Oct. 2	239	58	69	45
File-cutting machine	J. Béché, Jr.	531,251	Dec. 18	2065	494	69	1620
File for index-cards	A. Dom	525,947	Sept. 11	1025	247	68	1360
File for keeping records	D. E. Thomas	518,380	Apr. 17	1650	{ 407	67	334
File for newspaper-clippings	G. W. Sherman	514,241	Feb. 6	474	116	66	942
File-holder	J. Roust	519,738	May 15	1427	344	67	839
File. Invoice or other	M. Buchsbaum	528,285	Oct. 30	2726	658	69	562
File. Letter	A. Krah	515,052	Feb. 20	1773	447	66	1218
File. Letter and bill	W. O. Gottwals	512,020	Jan. 2	455	115	66	93
File. Letter or bill	G. H. Dietz	519,327	May 8	710	175	67	688
File. Newspaper	J. Grüniger	521,236	June 12	1558	202	67	1366
File. Office	A. H. Costigan	516,523	Mar. 13	1313	312	66	1713
File or bill-book	W. D. Slaton	522,860	July 10	1169	292	68	227
File. Paper	A. B. Dick	516,525	Mar. 13	1317	313	66	1713
File. Paper	G. S. Hawkins and M. Gilmore	511,888	Jan. 2	277	64	66	54
File. Paper	J. B. McEnally	529,296	Nov. 13	1384	333	69	917
File. Paper	E. A. Sharp	529,534	Nov. 20	1837	437	69	1019
File. Ready-reference	W. L. Van Harlingen	522,171	June 26	2520	605	67	1708
Filing and binding news or other papers. Device for	C. Dickerson	525,768	Nov. 6	437	106	69	726
Filing-block	E. A. Brush	525,587	Sept. 4	450	108	68	1235
Filler	H. Schneider	515,884	Mar. 6	234	55	66	1497
Filling device. Automatic	A. E. Briggs	520,557	May 29	2614	{ 679	67	1119
Filling-machine	F. Wallis and G. Galbraith	525,827	Sept. 11	892	199	68	1325
Filter	W. D. P. Aims, Jr.	512,931	Jan. 16	2038	482	66	411
Filter	F. B. Arendell	529,471	Nov. 20	1720	410	69	999
Filter	C. W. W. Ball and J. L. Gordon	522,819	July 10	1119	278	68	227
Filter	H. S. Blackmore	520,293	May 22	2375	576	67	1021
Filter	F. Bommarius	519,565	May 8	1138	273	67	767
Filter	J. A. Bowden	522,043	June 26	2305	{ 552	67	1667
					{ 553		

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Filter	J. A. Bowden	530,008	Nov. 27	2645	{ 635 636	69	1181
Filter	O. P. Briggs	526,515	Sept. 25	2090	498		
Filter	C. E. Chamberland	519,664	May 8	1306	312	63	1573
Filter	C. A. Criqui	511,756	Jan. 2	24	7	66	796
Filter	S. B. Cummings and D. W. Field	522,407	July 3	403	103	68	8
Filter	S. G. Derham	526,027	Sept. 18	1224	282	68	1399
Filter	H. Eisner	524,821	Aug. 21	1464	357	68	960
Filter	A. L. Emery	526,695	Oct. 2	40	11	69	10
Filter	C. Häfner	521,650	June 19	1599	374	67	1519
Filter	A. I. and D. Hyman	531,190	Dec. 18	1952	463	69	1601
Filter	H. J. E. Jensen	516,439	Mar. 13	1159	278	66	1684
Filter	D. Jones and C. Test	524,827	Aug. 21	1474	360	68	961
Filter	C. M. Keller	531,464	Dec. 25	2460	586	69	1711
Filter	H. R. Knersten	515,833	Mar. 6	162	40	66	1484
Filter	W. B. Lindsay, W. E. Tonner, and A. Lewmiller	528,104	Oct. 23	2407	{ 582 583	69	489
Filter	W. Lorey	529,558	Nov. 20	1874	446		
Filter	E. P. Lynn	521,591	June 19	1504	352	67	1501
Filter	C. J. Phillips	526,817	Oct. 2	241	58	69	46
Filter	G. W. Rafter	524,865	Aug. 21	1533	375	68	971
Filter	J. Roger	517,240	Mar. 27	2526	593	66	1975
Filter	C. H. Schultz, Jr	517,488	Apr. 3	122	27	67	25
Filter	C. Sellenscheidt and L. Lepke	519,275	May 1	601	{ 145 146	67	653
Filter	W. Weir	516,140	Mar. 6	650	152		
Filter	D. Williamson	511,828	Jan. 2	121	30, 31	66	27
Filter	D. Williamson	514,531	Feb. 13	924	{ 234 235	66	1045
Filter	D. C. and J. E. Williamson	524,155	Aug. 7	325	77		
Filter	D. C. and J. E. Williamson	529,470	Nov. 20	1718	{ 409 410	69	998
Filter and cleaning same	W. A. Freise	528,630	Nov. 6	184	45		
Filter and connection with faucets or water-supply	H. Vellenoweth	524,007	Aug. 7	68	15	68	674
Filter and trap. Sand	J. Blumer	525,182	Aug. 28	2118	515	68	1091
Filter. Attachable	T. C. Andrews	513,292	Jan. 23	2599	630	66	591
Filter-barrel	N. H. Cone	530,397	Dec. 4	562	140	69	1318
Filter-beds. Strainer for granular	J. W. Hyatt	512,298	Jan. 9	941	229	62	190
Filter discharging device	G. H. Moore	523,585	July 24	2440	612	63	502
Filter. Feed-water	A. Harris	515,768	Mar. 6	69	16	66	1466
Filter. Feed-water	A. Harris	515,769	Mar. 6	71	16	66	1467
Filter for street-sprinkler tanks, water-tanks, boilers, reservoirs, meters, &c.	E. Henry	526,922	Oct. 2	427	105	69	80
Filter. Germ-proof	A. L. Wilkinson, Sr	515,700	Feb. 27	2843	708	66	1434
Filter. Germ-proof water	C. A. Criqui	511,757	Jan. 2	26	7	66	8
Filter. Oil	L. H. Coleman	511,932	Jan. 2	349	81	66	66
Filter. Oil	J. T. Fewkes	530,757	Dec. 11	1205	293	69	1449
Filter. Oil-can	I. L. Davenport	513,693	Jan. 30	3599	887	66	813
Filter-press	H. Beeg	521,697	June 19	1677	393	67	1534
Filter, purifier, and grease-trap. Feed-water	W. Reeves	523,486	July 24	2283	{ 573 574	68	412
Filter-strainer	J. W. Hyatt	512,299	Jan. 9	942	230		
Filter. Water	A. F. Cook	522,512	July 3	574	147	68	113
Filter. Water	B. F. Field	524,545	Aug. 14	1002	246	68	861
Filter. Water	T. T. Luscombe	513,802	Jan. 30	3450	851	66	783
Filter. Water	J. E. Welling	516,981	Mar. 20	2068	489	66	1871
Filter. Water or fluid	S. B. Allison	513,551	Jan. 30	3045	750	66	709
Filtering apparatus	W. Balz	515,894	Mar. 6	255	60	66	1502
Filtering apparatus	J. A. Bowden	528,652	Nov. 6	237	59	69	689
Filtering apparatus	J. Féraud	513,905	Jan. 30	3613	890	66	816
Filtering apparatus	W. Oliphant	524,835	Aug. 21	1489	364	68	964
Filtering apparatus, protector against tube-breaking, and self-active closing apparatus. Water	R. Krix	523,815	July 31	2857	709	68	594
Filtering apparatus. Wine or beer	R. Haag	518,102	Apr. 10	1142	287	67	225
Filtering machinery	J. M. Smales	512,231	Jan. 2	828	201	66	157
Filtering or purification of liquids	L. Wagner, J. Marr, and H. Campbell	517,499	Apr. 3	142	31	67	29
Filtering water, &c. Apparatus for	D. A. Rankine	511,798	Jan. 2	81	20, 21	66	18
Filtration	S. R. Lowcock	530,784	Dec. 11	1253	303	69	1459
Filtration of liquids	Z. S. Spalding	517,966	Apr. 10	911	228	67	187
Finger-nail trimmer	H. La Casse	523,708	July 31	2672	663	68	560
Finger-protector	C. H. English	518,027	Apr. 10	1018	256	67	204
Finger-ring	C. M. Levy	516,211	Mar. 13	782	182	68	1615
Finger-ring	M. E. Oppenheimer	512,839	Jan. 16	1872	443	63	381
Fire-alarm	T. R. Hackworth and W. C. McLellan	528,160	Oct. 30	2503	605	69	521
Fire-alarm	E. P. McCaslin	530,790	Dec. 11	1259	304	69	1460
Fire-alarm	J. J. Orvis	523,003	July 17	1426	356	68	300
Fire-alarm	P. J. Regan	521,919	June 26	2072	498	67	1626
Fire-alarm	J. P. Williams	526,599	Sept. 25	2216	529	68	1596
Fire-alarm	E. A. Wright	520,348	May 22	2471	599	67	1040
Fire-alarm and annunciator system	F. S. Palmer	530,648	Dec. 11	1030	250	69	1418
Fire-alarm and signal. Automatic electric	L. A. and C. J. Werner	519,213	May 1	494	{ 119 120	67	633
Fire-alarm and sprinkler	W. A. Guthrie	514,362	Feb. 6	655	166		
Fire-alarm apparatus	F. J. Thunhorst	520,547	May 29	2797	676	67	1115
Fire-alarm apparatus. Electrical	E. W. Jungner	525,020	Aug. 28	1814	{ 442 443	68	1038
Fire-alarm attachment	C. E. Egan	512,672	Jan. 9	1560	374		
Fire-alarm. Automatic	W. A. Guthrie	530,839	Dec. 11	1331	319	69	1473
Fire-alarm. Automatic	C. A. Mann	522,346	July 3	293	76	63	59
Fire-alarm. Automatic electric	W. A. Guthrie	514,361	Feb. 6	654	166	66	976
Fire-alarm box	W. H. Kirnan	518,722	Apr. 24	2238	557	67	453
Fire-alarm hut	H. Trudel	530,808	Dec. 11	1282	{ 309 310	69	1464

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Fire-alarm or other purposes. Indicator for.....	W. H. Kirnan	520,234	May 22	2275	554	67	1002
Fire-alarm-signal system. Auxiliary	J. Sachs	522,231	July 3	97	22	68	19
Fire-alarm system.	J. W. White	524,973	Aug. 21	1712	420	68	1003
Fire-alarm system. Automatic	H. S. Tunnard and A. M. Keays	529,000	Nov. 13	873	206	69	825
Fire-alarm telegraph. Auxiliary	J. Sachs	514,279	Feb. 6	520	124	66	951
Fire-alarm-telegraph system	W. E. De-row	521,893	Oct. 2	370	93	69	69
Fire-alarm-telegraph system	M. J. O'Sullivan	513,526	Jan. 30	2998	739	66	700
Fire-alarm-telegraph system. Auxiliary	J. Sachs	515,503	Feb. 27	2518	624	66	1370
Fire-alarm transmitter. Electric	A. Dnnish	519,497	May 8	1009	214	67	743
Fire apparatus	J. B. Hunter	513,265	Jan. 23	2566	619	66	584
Fire apparatus. Door-opener for	D. H. Burke	522,315	July 3	241	63	68	48
Firearm	A. J. Strong	517,989	Apr. 10	957	239	67	193
Firearm. Automatic	W. L. King	515,526	Feb. 27	2561	634	66	1378
Firearm. Breech-loading	E. Elder	518,448	Apr. 17	1764	437		
Firearm. Breech-loading	W. Mason	513,808	Jan. 30	3461	852	66	785
Firearm. Breech-loading	J. L. McCullough	514,490	Feb. 13	859	219		
Firearm. Breech-loading	D. S. Seymour	530,966	Dec. 18	1545	366	69	1527
Firearm. Electrical	J. L. McCullough	514,491	Feb. 13	863	220		
Firearm hammer-guard	M. L. Campbell	521,533	June 19	1405	325	67	1483
Firearm-handle	J. H. Wesson	525,246	Aug. 28	2207	537	68	1107
Firearm. Magazine	P. Sheckler	521,624	June 19	1557	364	67	1511
Firearm operated by gases of explosion	W. T. Unge	515,064	Feb. 20	1788	451	66	1221
Firearm recoil-check	B. Blake	524,458	Aug. 14	859	211		
Firearm. Recoil-operated	A. Burgess	520,752	May 29	3144	761	67	1179
Firearm. Recoil-operated	P. Darche	519,151	May 1	374	89		
Firearm. Recoil-operated	F. Wackermann	516,417	Mar. 13	1119	266	66	1677
Firearm-sight	F. W. Dobbel	518,734	Apr. 24	2263	562		
Firearm-sight	L. A. Favre	523,887	July 31	2969	744	68	619
Firearms. Detachable stock for hand	I. H. Reed	517,555	Apr. 3	229	52	67	45
Firearms. Device for lessening the noise of	J. Stabel	516,236	Mar. 13	823	192	66	1622
Firearms. Magazine for breech-loading	P. Manser	527,869	Oct. 23	1974	474	69	410
Firearms. Shiftable firing-pin and extractor for	D. S. Seymour	530,967	Dec. 18	1552	367		
Firearms. Shiftable nose on hammer and automatic extractor for	D. S. Seymour	530,968	Dec. 18	1554	368	69	1527
Fire basket or grate	J. Zipp	530,571	Dec. 11	894	220	69	1394
Fire-curtain or fire-barrier	G. W. Putnam	520,218	May 22	2254	548	67	998
Fire-engine and pump	C. Poufé and C. Lock	528,563	Nov. 6	62	16, 17		
Fire-engine. Gas	D. Kegler	524,111	Aug. 7	241	56	68	706
Fire-engine lighter	C. W. Enos	529,024	Nov. 13	912	216	69	832
Fire-engines. Electric igniting apparatus for	W. C. Matthias and W. Hartman	526,723	Oct. 2	89	22	69	19
Fire-escape	C. Aller	513,972	Feb. 6	2	1	66	855
Fire-escape	C. Bartholomew	528,284	Oct. 30	2724	658	69	562
Fire-escape	F. M. Bender	518,659	Apr. 24	2115	528	67	431
Fire-escape	W. A. Bergstrom	512,498	Jan. 9	1295	311	66	256
Fire-escape	E. I. Blount	526,679	Oct. 2	15	4	69	5
Fire-escape	N. Bowrier and I. Belair	515,106	Feb. 20	1847	465	66	1232
Fire-escape	S. R. Briggs	522,703	July 10	900	222	68	189
Fire-escape	A. W. Carlson	513,757	Jan. 30	3328	835	66	771
Fire-escape	S. Cook	514,543	Feb. 13	944	238	66	1048
Fire-escape	C. Dohler	518,055	Apr. 10	1069	270	67	211
Fire-escape	E. Dunning	523,978	Aug. 7	18	5	68	666
Fire-escape	F. Dymacek	526,385	Sept. 25	1861	442	68	1532
Fire-escape	J. Eckley and J. C. Strickland	521,707	June 19	1694	397		
Fire-escape	C. P. Elieson and F. A. Pellas	517,335	Mar. 27	2684	630	66	2006
Fire-escape	F. J. Fairchild	521,339	June 12	1061	248	67	1404
Fire-escape	C. M. Fowler	524,481	Aug. 14	192	220	68	842
Fire-escape	B. Fox	522,981	July 17	1390	346	68	294
Fire-escape	B. Fox	527,487	Oct. 16	1335	325	69	278
Fire-escape	E. Goldberg	516,528	Mar. 13	1319	314	66	1714
Fire-escape	C. E. Harvey	518,920	Apr. 24	2564	634	67	513
Fire-escape	F. Johnson	514,997	Feb. 20	1680	421	66	1203
Fire-escape	M. Killen	511,896	Jan. 2	288	66		
Fire-escape	F. Kopp	522,990	July 17	1406	351	68	297
Fire-escape	E. Lawton	517,872	Apr. 10	742	186	67	157
Fire-escape	V. Leber	527,529	Oct. 16	1407	342		
Fire-escape	S. G. Leyson	516,893	Mar. 20	1918	453	66	1843
Fire-escape	D. N. McLeod	519,615	May 8	1227	295	67	782
Fire-escape	J. Moran	516,655	Mar. 20	1538	366	66	1772
Fire-escape	P. J. Munhall	523,916	July 31	3039	756	68	628
Fire-escape	C. A. Noack	521,416	June 12	1174	279	67	1426
Fire-escape	W. S. Parman	518,272	Apr. 17	1444	361	67	297
Fire-escape	E. Rank	529,462	Nov. 20	1705	407	69	996
Fire-escape	F. W. Rawle	512,899	Jan. 16	1982	470	66	402
Fire-escape	S. H. Roper	514,094	Feb. 6	189	43	66	890
Fire-escape	S. H. Roper	516,116	Mar. 6	610	143	66	1566
Fire-escape	S. H. Roper	516,117	Mar. 6	611	143	66	1567
Fire-escape	S. H. Roper	516,118	Mar. 6	613	143	66	1567
Fire-escape	S. H. Roper	531,567	Dec. 25	2628	629	69	1741
Fire-escape	W. D. Rumsey	531,007	Dec. 18	1625	385	69	1541

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Fire-escape	G. L. Silliman	530,860	Dec. 11	1364	326	69	1479
Fire-escape	F. T. Stacy	524,471	Aug. 14	875	216	68	839
Fire-escape	C. A. Sturtevant	519,397	May 8	844	204	67	714
Fire-escape	W. D. Thackston	530,863	Dec. 11	1369	337	69	1480
Fire-escape	A. G. White	522,639	July 10	800	199	68	170
Fire-escape	W. A. Wood and E. Ross	514,802	Feb. 13	1378	346	66	1132
Fire-escape. Automatic	I. Mills and J. Youngson	527,186	Oct. 9	819	199	69	167
Fire-escape. Flexible metal	T. Prushey	513,133	Jan. 23	2353	567	66	542
Fire-escape ladder	W. O. Ellis	519,499	May 8	1011	244 245	67	743
Fire-escape or lifter	W. Wellens	517,318	Mar. 27	2656	323 324	66	2060
Fire-escape. Portable	J. Luedecke	512,730	Jan. 16	1653	397	66	339
Fire-escape. Portable	J. J. Steur	518,633	Apr. 24	2067	514	67	422
Fire-escape. Spider-frame	M. P. Brown	516,517	Mar. 13	1301	310	66	1710
Fire-escape truck	E. Cardarelli	516,346	Mar. 13	990	235 236	66	1654
Fire-escape truck	E. Cardarelli	519,234	May 1	529	127 128	67	640
Fire-extinguisher	O. W. Aldrich and S. M. Hall	514,534	Feb. 13	932	233	66	1046
Fire-extinguisher	A. G. Leonard	512,834	Jan. 16	1466	442	66	380
Fire-extinguisher	C. J. L. MacLeod	520,159	Sept. 18	1452	332	68	1440
Fire-extinguisher	C. R. Macomber	527,120	Oct. 9	735	178	69	149
Fire-extinguisher	W. H. Moore and J. Gardiner	530,440	Dec. 4	628	156	69	1330
Fire-extinguisher	R. W. Newton	514,160	Feb. 6	305	73	66	910
Fire-extinguisher	D. F. Prosser	517,394	Mar. 27	2318	658	66	2032
Fire-extinguisher	O. A. Stempel	515,840	Mar. 6	187	44	66	1488
Fire-extinguisher	J. Van Kalker and N. Bolt	517,720	Apr. 3	614	153	67	119
Fire-extinguisher	M. Wielandt	530,672	Dec. 11	1068	259	69	1424
Fire extinguisher and alarm. Automatic	J. E. Musselmann	526,355	Sept. 18	1791	424 425	68	1506
Fire extinguisher and alarm. Combined	J. C. Morton and E. B. Freeman	516,939	Mar. 20	2000	471	66	1857
Fire-extinguisher. Automatic	R. L. Cumnock	522,656	July 10	822	205	68	174
Fire-extinguisher. Automatic	A. D. Linn	514,833	Feb. 13	1429	360	66	1141
Fire-extinguisher. Automatic	G. T. McLaughlin and J. Naylor, Jr.	515,938	Mar. 6	320	76	66	1513
Fire-extinguisher. Automatic	E. W. Storer	531,228	Dec. 18	2029	483	69	1614
Fire-extinguisher. Automatic chemical	W. Wyand	512,428	Jan. 9	1169	283 284	66	233
Fire-extinguisher. Chemical	M. L. Bosworth	515,460	Feb. 27	2453	608	66	1358
Fire-extinguisher. Chemical	M. L. Bosworth	527,036	Oct. 2	597	144	69	112
Fire-extinguisher for oil-rooms. Automatic	L. Welker	512,927	Jan. 16	2032	481	66	410
Fire-extinguisher. Portable chemical	I. L. Carr	524,377	Aug. 14	722	175	68	810
Fire-extinguishers. Sprinkler-head for automatic	G. E. Hibbard	531,120	Dec. 18	1824	433	69	1577
Fire-extinguishers. Sprinkler-head for automatic	V. Lapham	513,582	Jan. 30	3098	762	66	719
Fire-extinguishers. Valve for automatic	S. S. Adkins	523,923	July 31	3050	761 762	68	630
Fire-extinguishers. Valve for automatic	F. Gray	513,571	Jan. 30	3081	758	66	715
Fire-extinguishers. Valve for automatic	G. E. Hibbard	531,119	Dec. 18	1820	432 433	69	1576
Fire-extinguishing apparatus	A. L. Gaiser	530,834	Dec. 11	1323	319	69	1472
Fire-extinguishing apparatus	J. B. Hunter	513,266	Jan. 23	2567	620	66	584
Fire-extinguishing apparatus	H. D. Kramer	530,431	Dec. 4	613	153	69	1327
Fire-extinguishing apparatus	A. L. E. Lechartier	518,258	Apr. 17	1415	354	67	291
Fire-extinguishing apparatus	C. E. Manning	530,191	Dec. 4	201	50	69	1251
Fire-extinguishing apparatus	R. Tranquilli	520,976	Nov. 27	2570	619	69	1164
Fire-extinguishing apparatus	M. Vinning	513,351	Jan. 23	2690	652	66	607
Fire-extinguishing apparatus. Automatic	N. Lombard	514,157	Feb. 6	294	71	66	908
Fire-extinguishing apparatus. Automatic	N. Lombard	514,157	Feb. 6	296	71	66	909
Fire-extinguishing apparatus. Automatic	N. Lombard	514,6	Feb. 13	1136	283	66	1085
Fire-extinguishing apparatus. Household	D. L. Keeler	531,591	Dec. 25	2067	640	69	1752
Fire-extinguishing apparatus. Sprinkler-head for automatic	W. S. Gray	514,226	Feb. 6	425	103	66	932
Fire extinguishing substances with water. Apparatus for automatically mixing	G. Müller	528,441	Oct. 30	2929	722	69	608
Fire-extinguishing system	O. Pierco	523,684	July 31	2624	652	68	552
Fire-extinguishing systems. Valve for	G. Mills	514,486	Feb. 13	852	218	66	1031
Fire-generator	A. Mistaro	515,782	Mar. 6	91	21	66	1471
Fire-hose. Metal-drilling attachment for	J. G. von Hofe	518,814	Apr. 24	2393	591	67	480
Fire-hose spray-nozzle	M. H. Hart	523,768	July 31	2777	689	68	578
Fire-hose to ladders. Apparatus for fastening	E. F. Richardson	530,656	Dec. 11	1043	254	69	1420
Fire-kindler	E. Ludde	525,912	Sept. 11	1634	234	65	1352
Fire-kindler	F. R. Pearson	530,716	Dec. 11	1135	275	69	1436
Fire-kindler	P. Peschong	517,060	Mar. 27	2232	529	66	1917
Fire-kindler. Automatic	S. Robinson	512,221	Jan. 2	815	197 198	66	154
Fire-kindler. Automatic	H. H. Sanner	522,353	July 3	304	78	68	60
Fire-kindler composition	J. D. Le Bel	522,666	July 10	838	209	68	173
Fire-lighter. Automatic	A. J. Krehbiel and G. A. Hege	527,698	Oct. 16	1862	465	69	340
Fire-pail	T. J. Bell	516,749	Mar. 20	1700	402	66	1801
Fire-pail	F. B. Comins	520,727	May 29	3103	751	67	1172
Fireplace and grate	E. Scanlan, F. W. Keifel, Jr., and J. Zipp	530,627	Dec. 11	983	241 242	69	1411
Fireplace and grate. Combined	E. Scanlan and J. Zipp	528,610	Nov. 6	150	37	69	674
Fireplace and ventilator. Combined	J. W. Tate	529,972	Nov. 27	2566	618	69	1163
Fireplace-frame	J. H. White	513,255	Jan. 23	2547	613	66	586
Fireplace-front	J. F. Hewitt	523,037	July 17	1488	370	68	312
Fireplace furnace or heater. Open	G. R. Scates	515,942	Mar. 6	327	78	66	1314
Fireplace hearth-bed	F. F. Paris	518,100	Apr. 10	1140	227	67	224
Fireplace-heater	J. C. Treiber	513,842	Jan. 30	3516	865	66	797
Fireplace-heater	H. B. Scoville	518,862	Apr. 24	2458	607	67	492
Fireplace-heater. Open	F. Iiinds	525,208	Aug. 28	2152	525 526	68	1097
Fire-plug	C. Hangsten	511,948	Jan. 2	377	87	66	71

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Fire-plug casings. Tool for cutting recesses on the inside of	H. Thomson	523,493	July 24	2299	579	68	474
Fire plug or hydrant	H. Thomson	515,410	Feb. 27	2376	589	66	1343
Fireproof construction	W. L. Caldwell	522,193	July 3	12	4	62	5
Fireproof curtain for elevator-shafts	E. F. Clarke	519,890	May 15	1838	449	67	908
Fireproof furring, partition, or wall	B. E. J. Eils	528,931	Nov. 13	761	179	69	806
Fireproof structure	M. F. McCarthy	514,955	Feb. 20	1621	407	66	1192
Fireproof structure	M. F. McCarthy	520,490	May 29	2705	655 656	67	1099
Fire pumps or engines. Water-supply system for	G. and G. G. Campbell	518,776	Apr. 24	2326	577	67	469
Fire telegraphy	S. J. Sanford	516,879	Mar. 20	1698	448	66	1839
Fire-tower	W. F. Austin	524,476	Aug. 14	882	217 218	68	840
Fire-trap for elevator-shafts. Automatic	T. G. Lamb	514,423	Feb. 6	736	187 188	66	992
Fires. Process of and compound for extinguishing	A. C. Schumacher	520,012	May 15	1868		67	913
Fish culture. Nursery-pond for	C. A. Hoxsie	518,319	Apr. 17	1520	380	67	310
Fish. Curing and drying	T. S. Whitman	514,578	Feb. 13	1001	253	66	1059
Fish-hook	H. S. Goff and A. B. Judkins	519,684	May 8	1342	324	67	802
Fish-hook	B. S. Martin	523,988	Aug. 7	38	9	68	669
Fish-hook guard	J. R. Payson	512,746	Jan. 16	1691	405	66	347
Fish-hooks. Minnow-holder for	F. Stapp	531,140	Dec. 18	1860	441	69	1584
Fish-ladder	J. A. Richardson	530,655	Dec. 11	1042	254	69	1419
Fish-line reel	C. B. Corbin	520,517	May 29	2744	665	67	1105
Fish-line reel	N. H. McGregor	520,607	May 29	2-96	700	67	1135
Fish-line reel	N. H. McGregor	522,079	June 26	2363	563	67	1679
Fish. Live-box for shell	T. Mann	517,652	Apr. 3	399	96	67	77
Fish meal. Making	P. Waage	518,748	Apr. 24	2284	567	67	460
Fish or crab net	M. E. Becker and R. Lind	530,156	Dec. 4	133	35	69	1239
Fish-pond. Artificial	C. A. Hoxsie	518,318	Apr. 17	1517	320	67	310
Fish-refuse. Apparatus for drying	D. F. and W. E. Overton	520,269	May 22	2339	567	67	1014
Fish-rod reel	G. H. Newell	527,713	Oct. 16	1697	409	69	343
Fish-spear	H. D. Deshler	528,865	Nov. 6	633	150	69	762
Fish-spear	J. D. Dreese	515,875	Mar. 6	225	53	66	1495
Fish-stringing device	A. H. Sippy	529,758	Nov. 27	2195	523	69	1094
Fish-trap	R. J. Hodge	527,606	Oct. 16	1528	371	69	311
Fish-trap	P. H. Loud, Jr	527,435	Oct. 16	1247	306 307	69	259
Fish-trap	W. M. McKenzie	530,444	Dec. 4	632	157 158	69	1331
Fish-trap	W. Seaton	521,053	June 5	539	126	67	1295
Fish-trap	B. Wood	528,839	Nov. 6	587	139	69	853
Fish trap or net	W. E. Cole	513,483	Jan. 30	2919	719	66	685
Fisherman's appliance	C. Hirschmann	520,052	May 22	1943	476	67	943
Fisherman's reel	F. V. de Bem	522,503	July 3	557	142	68	110
Fishing apparatus	P. S. and A. J. Downie	522,111	June 26	2416	580	67	1688
Fishing apparatus	W. R. Lamb	515,001	Feb. 20	1685	423	66	1203
Fishing apparatus	H. J. Thayer	518,013	Apr. 10	997	250	67	200
Fishing apparatus. Electrical	E. Poppowitsch	522,352	July 3	302	78	68	60
Fishing-float	G. H. Rawlings	522,167	June 26	2516	604	67	1708
Fishing-jig	J. E. Bacon	524,928	Aug. 21	1647	403	68	990
Fishing-line sinker	C. W. Black and B. J. Chapman	531,090	Dec. 18	1769	422	69	1567
Fishing-net	G. Trouvé	528,350	Oct. 30	2828	624	69	580
Fishing-reel	J. S. Freese	522,323	July 3	253	67	68	51
Fishing-reel	P. J. Mahye	529,658	Nov. 20	2030	487	69	1055
Fishing-reel	F. W. Moog	524,341	Aug. 14	661	161	68	798
Fishing-reel	C. Wiebeck	515,184	Feb. 20	1981	494	66	1257
Fishing-rod line-guide	S. T. Davis	521,704	June 19	1685	395	67	1536
Fishing-rod support	M. B. Finch	520,041	May 22	1922	471	67	939
Fishing-tackle case	A. H. Handlan, Jr.	513,044	Jan. 16	2209	529	66	443
Fishing-tackle fastening	M. B. Allen	527,259	Oct. 9	952	231	69	102
Fishpole-holder	P. Burke	525,132	Aug. 28	2022	495	68	1075
Flag-holder and cane. Combined	N. Smith	523,293	July 17	1937	487	68	395
Flagstaff	T. J. Murray	520,253	Sept. 18	1619	3-0	68	1471
Flagstaff-coupling	H. Wettstein and C. Rödmann	521,063	June 5	556	130	67	1297
Flame-focusing apparatus	C. H. Land	530,696	Dec. 11	1107	263	69	1431
Flanger	T. W. Macfarlane	517,704	Apr. 3	485	116	67	93
Flanger and track-clearer. Rotary	J. S. Mathews and A. T. Doyle	527,756	Oct. 16	1775	427	69	357
Flanging-machine	F. A. Kirby and J. Henning	526,714	Oct. 2	75	19, 20	69	16
Flanging or hemming edges of tin plates, &c. Machine for	J. G. Hodgson	522,254	July 3	135	32	68	26
Flash-light burner	M. D. Westcott	526,661	Sept. 25	2324	556	68	1616
Flash-light burner	M. D. Westcott	526,662	Sept. 25	2326	556	68	1617
Flash-light compound	A. Hensley	528,515	Oct. 30	3117		69	632
Flash-plates to ventilating-pipes and different-pitched roofs. Device for adjusting	B. B. Biguall	530,574	Dec. 11	897	221	69	1395
Flask: See Chemical-flask. Molder's flask. Miner's flask.							
Flat-iron heater	A. J. Myers	525,427	Sept. 4	187	47	68	1186
Flat-iron rest or holder	W. W. Nugent	514,492	Feb. 13	866	221	66	1034
Flat-iron rest or holder	A. A. Sawyer	514,500	Feb. 13	879	223	66	1036
Flax-puller	F. L. Benjamin	521,926	June 26	2089	501	67	1628
Flax-puller	F. L. Benjamin	521,927	June 26	2090	502	67	1629
Flax-separator	J. Benesh	514,899	Feb. 20	1540	385	66	1176
Flax-straw. Composition for degumming	H. B. Ware	517,905	Apr. 10	800		67	169
Fleshing-machine	C. J. Maver	526,724	Oct. 2	90	22, 23	69	19
Flexible joint	A. Campbell	525,884	Sept. 11	999	225	68	1345
Flexible tired wheel	S. Elliott	527,782	Oct. 23	1823	439	69	383
Flies from houses. Apparatus for expelling	R. F. Lotspeich	519,793	May 15	1520	370	67	849
Flies on animals. Trap for	R. H. Guthrie	516,048	Mar. 6	516	120	66	1548
Fly exterminator	H. Hungerford	514,227	Feb. 6	433	105	66	933
Fly-gate for attachment to screens, &c	E. Hayden	524,437	Aug. 14	832	201	68	829
Fly-paper holder	O. and H. Thum	528,573	Nov. 6	88	22	69	662

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fly-paper. Sticky.....	O. and W. Thum.....	520,715	May 29	3088	747	67	1170
Fly-screen.....	M. J. Tenney.....	514,390	Feb. 6	694	175	66	984
Fly-screen.....	J. West.....	511,970	Jan. 2	422	98	66	80
Fly-trap.....	W. A. Hill.....	512,108	Jan. 2	636	152	66	122
Fly-trap.....	A. Peltier.....	521,219	June 12	830	194	67	1360
Fly-trap.....	C. Shleacow.....	527,221	Oct. 9	828	215	69	180
Fly-trap.....	W. Thomae.....	519,745	May 15	1434	346	67	833
Fly-wheel band-brake.....	L. Luckhardt.....	515,915	Mar. 6	285	67	66	1506
Flying apparatus.....	G. Wellner.....	516,581	Mar. 13	1403	333 334	66	1730
Float.....	D. M. Ireland.....	521,501	June 19	1350	314	67	1474
Flood and sinker attachment.....	P. S. Redfield.....	514,034	Feb. 6	94	24	66	872
Flood-gate. Automatic.....	J. W. Milligan and J. A. Tomlinson.....	523,606	July 24	2171	621	68	507
Floor.....	R. Knights.....	527,430	Oct. 16	1242	305	69	258
Floor.....	D. McDonald.....	530,959	Dec. 18	1534	363	69	1525
Floor and ceiling construction. Fireproof.....	J. Seipel.....	522,168	June 26	2517	604	67	1708
Floor and ceiling. Fireproof.....	C. A. Balph and E. P. S. Wright.....	527,042	Oct. 9	610	148	69	129
Floor and floor-block.....	T. A. Lee.....	522,425	July 3	444	113	68	88
Floor-board set.....	G. A. Stewart.....	523,647	July 21	2543	638	68	522
Floor, ceiling, &c. Fireproof.....	T. L. Banks.....	529,153	Nov. 13	1129	273	69	872
Floor, ceiling, &c. Fireproof.....	M. F. McCarthy.....	520,492	May 29	2709	656 677	67	1100
Floor-clamp.....	M. Schlatter.....	528,033	Oct. 23	2284	551	69	466
Floor-cloth.....	A. Hagele.....	524,021	Aug. 7	89		68	679
Floor-cloth. Machine for the manufacture of mosaic.....	F. Walton.....	523,610	July 24	2480	623 624	68	509
Floor-cloth. Method of and apparatus for manufacturing.....	H. W. Godfrey, C. F. Leake, and C. E. Lucas.....	514,186	Feb. 6	347	84	66	919
Floor-cloths. Machine for the manufacture of solid-color.....	J. S. Farmer.....	521,157	June 12	721	169 170	67	1341
Floor construction.....	P. M. Bruner.....	530,744	Dec. 11	1124	288	69	1445
Floor construction. Fireproof.....	T. A. Lee.....	522,426	July 3	446	113	68	89
Floor construction. Metallic.....	G. B. Francis and E. P. Dawley.....	523,143	July 17	178	420	68	348
Floor dressing or polishing machine.....	W. W. Murray and T. W. Cromer.....	521,729	June 19	1732	411 412	67	1545
Floor. Fireproof.....	O. W. Norcross.....	526,731	Oct. 2	100	25	69	21
Floor. Fireproof.....	O. W. Norcross.....	531,210	Dec. 18	1993	473	69	1608
Floor. Fireproof.....	H. B. Price.....	524,284	Aug. 7	527	124	68	756
Floor. Illuminating.....	E. L. Ransome.....	518,045	Apr. 10	1056	267	67	209
Floor-jack.....	J. L. Kobler.....	523,214	July 17	1804	452	68	370
Floor-set.....	H. A. Bates.....	527,474	Oct. 16	1320	321	69	275
Floor-set.....	N. B. Marston.....	529,929	Nov. 27	2481	598	69	1148
Floor-washing machine.....	J. C. Garrott.....	515,877	Mar. 6	227	53	66	1496
Floors and ceilings. Construction of.....	J. F. Golding.....	529,724	Nov. 27	2139	512	69	1085
Floors. Construction of fireproof.....	R. Astley.....	527,647	Oct. 16	1597	386	69	325
Floors, &c. Construction of fireproof.....	M. F. McCarthy.....	520,491	May 29	2707	656	67	1099
Floors or ceilings. Construction of.....	J. F. Kleine.....	515,434	Feb. 27	2422	600	66	1352
Floors or other surfaces. Machine for the manufacture of coverings for.....	A. S. Oetzmann.....	524,606	Aug. 14	1088	269 270	68	878
Flooring.....	J. G. Wilson.....	529,772	Nov. 27	2217	523	69	1098
Flooring-boards. Machine for matching ends of.....	J. P. Burnham.....	518,804	Apr. 24	2375	588	67	477
Flooring-clamp.....	W. P. Davis.....	515,660	Feb. 27	2771	690	66	1420
Flooring-clamp.....	J. W. Smith and F. J. Perkins.....	525,518	Sept. 4	330	82	68	1212
Flooring. Fireproof.....	E. L. Ransome.....	515,015	Feb. 20	1709	429	66	1207
Flooring. Hanger apparatus for use in laying fireproof.....	C. Carlson.....	527,323	Oct. 9	1159	224	69	230
Floral stand.....	T. A. M. Brueckner.....	516,259	Mar. 13	861	201	66	1629
Flour bin and sieve. Combined.....	W. H. and B. D. Cook.....	516,367	Mar. 13	1046	248	66	1663
Flour bin and sifter.....	C. F. Burnap.....	526,009	Sept. 11	1191	273	68	1380
Flour-bolt.....	S. D. Barr.....	515,812	Mar. 6	135	33	66	1478
Flour-bolt.....	W. D. Gray.....	514,317	Feb. 6	589	147 148	66	963
Flour-bolt.....	J. R. Staudt.....	511,815	Jan. 2	102	26	66	23
Flour-bolt. Rotary.....	L. Hertzler.....	522,522	July 3	591	151	68	116
Flour-bolting reel.....	S. D. Barr.....	524,157	Aug. 7	330	78	68	722
Flour, &c. Machine for mixing, weighing, and packing.....	S. T. Ayres.....	518,088	Apr. 10	1118	282 283	67	220
Flour. Mechanism for testing and recording properties of.....	J. Hogarth.....	529,175	Nov. 13	1173	282 283	69	880
Flour-mill air-bolt.....	J. S. Dodge.....	523,335	July 24	2019	507	68	427
Flour of different grades. Apparatus for mixing.....	J. D. Bangert.....	512,354	Jan. 9	1029	251 252	66	206
Flour-packing bit.....	C. B. Donaldson.....	523,977	Aug. 7	15	4	68	665
Flower. Artificial.....	A. Mayer-Schiewen.....	514,482	Feb. 13	847	216	66	1031
Flower-box.....	A. Smith.....	530,132	Dec. 4	96	25	69	1233
Flower-holder.....	E. E. Bailey.....	527,231	Oct. 9	906	219	69	184
Flower-holder for buttonholes.....	J. F. S. Wallace.....	516,954	Mar. 20	2028	420	63	1263
Flower-holder for florists' use.....	S. M. Flint.....	522,520	July 3	589	151	68	116
Flower-pot.....	W. L. Vestal.....	515,032	Feb. 20	1744	440	66	1213
Flue.....	F. B. and E. G. Wisdom.....	527,256	Oct. 9	945	229	69	190
Flue-cleaner.....	O. P. Clay.....	516,297	Mar. 13	912	214 215	66	1639
Flue-cleaner.....	C. E. Davey.....	513,176	Jan. 23	2409	582	66	553
Flue-cleaner.....	P. Fitzgibbons.....	530,890	Dec. 11	1413	336	69	1487
Flue-cleaner.....	J. O. Frazier.....	530,832	Dec. 11	1320	317	69	1471
Flue-cleaner.....	W. Jess.....	523,132	Oct. 23	2459	595	69	498
Flue-cleaner.....	E. D. Weston.....	518,638	Apr. 24	2077	513	67	425
Flue-cleaner. Boiler.....	C. S. Dean.....	526,648	Sept. 25	2300	551	68	1612
Flue-cleaner. Boiler.....	F. H. Enochs.....	525,699	Sept. 11	658	154	68	1284
Flue-cleaner. Steam-boiler.....	W. T. Coggeshall.....	512,158	Jan. 2	721	175	66	138
Flue-cleaner. Steam-boiler.....	D. W. Dart.....	521,155	June 12	719	169	67	1340
Flue-expander and beader.....	J. Coles.....	514,588	Feb. 13	1027	258	66	1063
Flue-register.....	A. J. Cohen.....	524,310	Aug. 14	585	140	68	787
Flue. Safety.....	C. E. Martin.....	517,471	Apr. 3	95	21	67	20

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Invention.	Name	No.	Date.	Monthly volume.		Official Gazette.	
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Flue. Smoke-pipe.....	T. D. Garner, Jr.....	515,427	Feb. 27	2412	597	66	1349
Flue-stopper. Adjustable.....	W. G. Ran.....	513,141	Jan. 23	2356	569	66	542
Flue. Ventilating.....	F. Lange.....	530,229	Dec. 4	272	67	69	1265
Fluid. Apparatus for intensifying the pressure of compressed.....	C. P. Higgins.....	527,981	Oct. 23	2191	527 } 528 }	69	450
Fluid-discharging apparatus.....	W. T. Messinger.....	517,550	Apr. 3	219	51	67	43
Fluid-fuel burner.....	W. E. Vernon.....	525,569	Sept. 4	424	101	68	1230
Fluid-pressure engine.....	G. Dixon.....	516,594	Mar. 13	1420	337 } 336 }	66	1732
Fluid-pressure engine.....	G. Dixon.....	528,866	Nov. 6	635	151	69	762
Fluid-tank.....	G. T. Voorhees.....	512,416	Jan. 9	1145	278	66	238
Fluids. Apparatus for indicating the flow of.....	H. S. Maxim.....	522,095	July 17	1412	352	68	298
Flush-tank.....	T. Walsh and D. Keogh.....	529,512	Nov. 20	1800	428	69	1012
Flush-tank. Automatic.....	W. W. Ensign.....	527,599	Oct. 16	1518	368	69	310
Flush-tank. Automatically-acting.....	B. Williams.....	519,369	May 8	793	194	67	705
Flusher. Automatic siphon.....	R. C. De La Hunt.....	531,516	Dec. 25	2544	608	69	1727
Flushing apparatus.....	G. D. Ackley.....	517,718	Apr. 3	513	121	67	99
Flushing apparatus.....	W. A. Eberhart.....	516,002	Mar. 6	436	100	66	1533
Flushing apparatus. Automatic.....	F. Walker.....	525,244	Aug. 28	2204	537	68	1107
Flushing apparatus for urinals, &c. Automatic.....	W. Clark, A. Cameron, and C. Kirk.....	521,907	June 26	2050	494	67	1622
Flushing attachment.....	J. A. O'Connor and G. H. Graham.....	531,212	Dec. 18	1996	474	69	1608
Flushing-closet. Ventilated.....	G. D. Curtis.....	525,759	Sept. 11	759	176	68	1302
Flushing-tank.....	J. R. Donnelly and C. F. Barton.....	515,521	Feb. 27	2352	633	66	1377
Flushing-tank.....	J. Moloney, Jr.....	519,337	May 8	728	179	67	692
Fodder-preparing apparatus.....	A. F. Davis.....	526,689	Oct. 2	29	8	69	8
Fodder-tying device.....	I. H. Henley.....	525,417	Sept. 4	171	44	68	1182
Folder for fabrics. Edge.....	R. W. S. Mitchell and J. Murphy.....	519,131	May 1	341	81	67	603
Folding box.....	G. H. Savacool.....	524,910	Aug. 21	1601	391	68	983
Folding box.....	S. F. Sherman.....	516,124	Mar. 6	623	146	66	1569
Folding box.....	S. F. Sherman.....	520,341	May 22	2459	596 } 597 }	67	1037
Folding camera.....	G. D. Milburn.....	530,955	Dec. 18	1526	372	69	1523
Folding chair.....	G. M. Bennett.....	531,583	Dec. 25	2651	635 } 636 }	69	1749
Folding chair.....	W. N. Clark.....	529,645	Nov. 20	2008	421	69	1051
Folding chair.....	J. Cornell.....	514,445	Feb. 13	774	198	66	1017
Folding chair.....	S. G. McCullough.....	517,656	Apr. 3	413	100	67	79
Folding chair.....	J. Walton.....	530,564	Dec. 11	882	217	69	1392
Folding gate.....	W. R. Pitt.....	514,663	Feb. 13	1146	286	66	1087
Folding gate.....	W. R. Pitt.....	522,801	July 10	1089	269	68	221
Folding gate. Swinging.....	G. M. Beard.....	519,145	May 1	364	87	67	608
Folding joint for bars or rods.....	A. Hofbeck.....	531,121	Dec. 18	1925	433	69	1577
Folding-machine.....	W. E. Curtis.....	531,513	Dec. 25	2537	607 } 608 }	69	1726
Folding-machine.....	C. Efranson.....	519,058	May 1	191	46	67	573
Folding-machine.....	W. Mendham.....	517,054	Mar. 27	2220	526	66	1915
Folding machine. Circular.....	J. R. McDonald.....	513,435	Jan. 23	2211	689 } 691 }	66	631
Folding or extension table.....	W. S. Rollings.....	527,077	Oct. 9	656	159	69	138
Folding seat.....	A. M. Reeves.....	512,325	Jan. 9	981	240	66	198
Folding seat. Portable.....	J. R. R. Morford.....	516,895	Mar. 20	1925	454	66	1844
Folding stand.....	T. A. Clarke.....	513,304	Jan. 23	2620	635	66	595
Folding table.....	G. A. Bowen.....	515,462	Feb. 27	2457	609	66	1359
Folding table.....	E. G. Chormann.....	519,379	May 8	809	197	67	708
Folding table.....	R. Ettinger.....	515,955	Mar. 6	349	82	66	1518
Food compound.....	J. J. Angus.....	515,736	Mar. 6	2	66	1455	
Food for horses. Preparing.....	H. B. Kaiserstein.....	520,682	May 29	3032	67	1159	
Food product and apparatus.....	J. W. H. Campbell.....	529,822	July 10	1124	278	68	227
Food products from cereals. Machine for the manufacture of.....	H. D. Perky.....	520,496	May 29	2714	657 } 658 }	67	1101
Food products from cereals. Machine for the manufacture of.....	H. D. Perky.....	521,810	June 26	1881	450	67	1589
Food-screen.....	J. H. Rhoads and G. H. Spannagel.....	526,942	Oct. 2	455	112	69	86
Foot. Artificial.....	J. H. Kaue.....	515,691	Feb. 27	2429	704	66	1431
Foot-ball.....	W. R. Thomlinson.....	526,136	Sept. 18	1415	330	68	1434
Foot-bench. Folding.....	A. Epstein.....	513,311	Jan. 23	2628	638	66	596
Foot-guard.....	J. H. Blomshield.....	520,031	May 22	1909	467	67	936
Foot or hand power.....	J. A. Wilkin.....	521,490	June 19	1332	309 } 310 }	67	1471
Foot-rest.....	J. A. Bayliss.....	515,644	Feb. 27	2743	684	66	1415
Foot-rest.....	C. B. Demarest.....	518,489	Apr. 17	1823	451	67	365
Foot-rest. Self-adjusting.....	G. J. Shults.....	530,859	Dec. 11	1363	325	69	1478
Foot-warmer. Portable.....	I. Boyd and B. Hardesty.....	525,252	Aug. 28	2214	539	68	1108
Footwear.....	F. T. Kce.....	526,234	Sept. 18	1755	372	68	1465
Forceps.....	E. Whisson.....	525,300	Aug. 28	2290	556	68	1125
Forceps. Staple.....	S. L. Griffith.....	512,248	Jan. 2	856	207	66	162
Forge.....	H. W. Wendt.....	520,845	Nov. 27	2347	559	69	1123
Forge. Blacksmith's.....	G. E. Post.....	519,072	May 1	230	54	67	580
Forging machine. Nut.....	S. H. Markham.....	520,067	May 22	1967	481 } 482 } 483 }	67	947
Forging metals, &c. Hydraulic apparatus for.....	A. H. Tyler and J. S. E. de Vesian.....	530,313	Dec. 4	416	104 } 105 }	69	1291
Forging or hammering metal. Machine for.....	L. A. Parrock.....	523,050	July 17	1507	376 } 377 }	68	316
Fork.....							
See Coal or coke fork. Pitchfork.							
Lifting-fork.....							
Fork.....	M. H. Fuller.....	530,892	Dec. 11	1417	337	69	1488
Fork.....	W. L. Laffer.....	512,721	Jan. 16	1642	395	66	337
Fork.....	W. L. Laffer.....	517,461	Apr. 3	62	17	67	18
Fork attachment.....	E. S. Lane.....	519,717	May 15	1395	337	67	826
Fork cutter attachment.....	P. P. and J. Dustrud.....	517,796	Apr. 3	635	159	67	123

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Fork-holder. Safety.....	G. Sasse.....	513,202	Jan. 23	2448	592	66	560
Form. Adjustable draping.....	A. B. Buehl.....	516,151	Mar. 6	671	157	66	1578
Form. Bust.....	R. A. Guillan.....	528,633	Nov. 6	209	51	69	684
Form. Draping.....	J. M. Walters.....	515,541	Feb. 27	2587	640	66	1383
Form. Dress.....	D. Brown.....	524,242	Aug. 7	460	108	68	745
Fortune-telling machine. Coin-operated.....	F. F. Dennis.....	514,418	Feb. 6	731	186	66	991
Foundations or underground structures. Tube for.....	R. L. Harris.....	528,368	Oct. 30	2866	694	69	587
Founding.....	H. B. A. Keiser.....	514,473	Feb. 13	833	211	66	1027
Foundry plant.....	S. Merchant.....	516,397	Mar. 13	1089	259		
Foundry use. Rap and draw pin for.....	E. T. Wires.....	514,400	Feb. 6	709	179	66	987
Fountain:							
<i>See</i> Drinking-fountain. Ink-fountain.							
Electric fountain. Soda-fountain.							
Fountain.....	E. D. Brainard.....	515,898	Mar. 6	262	61	66	1503
Fountain and sprinkler. Combined.....	J. R. Cadwell.....	528,144	Oct. 30	2481	601	69	517
Frame:							
<i>See</i> Cycle-frame. Mosquito-net frame.							
Drying-frame. Purse-frame.							
Duplicating-apparatus frame. Purse or bag frame.							
Eyeglass folding frame. Quilting-frame.							
Hay-rack frame. Roving-frame.							
Screen-frame.							
Slate-frame.							
Frame for pictures, &c.....	W. K. David.....	516,187	Mar. 13	741	174	66	1606
Frame structures. Exterior finish for.....	T. Girouard.....	529,722	Nov. 27	2136	511	69	1084
Frame structures. Machine for erecting.....	J. Fairbank.....	530,028	Nov. 27	2679	643	69	1187
Frames. Metal corner-piece for.....	E. F. Shellaberger.....	518,828	Apr. 24	2411	597	67	483
Freezer.....	P. Cacciatori.....	512,002	Jan. 2	456	109	66	88
Freight-transferring device.....	O. Spitzer.....	512,066	Jan. 2	561	133	66	107
Friction-brake. Electric.....	B. Davis.....	526,966	Oct. 2	487	120	69	91
Friction-wheel.....	C. Zoller.....	512,787	Jan. 16	174	424	66	364
Frog. Crossing.....	J. C. Shipman.....	527,297	Oct. 9	1019	248	69	203
Frog. Spring.....	N. O. Goldsmith.....	528,474	Oct. 30	3050	740	69	620
Frog. Wrecking.....	W. C. Bourdette.....	522,574	July 10	1187	296	68	240
Fruit basket and crate.....	R. E. Morey.....	525,112	Aug. 28	1989	466	68	1069
Fruit-box.....	G. C. Richards.....	524,564	Aug. 14	1032	254	68	867
Fruit box or crate.....	W. T. Cottier.....	512,809	Jan. 16	1825	432	66	372
Fruit-can.....	C. Schifferly.....	521,921	June 26	2074	498	67	1626
Fruit-carrier.....	T. S. Fitch.....	521,141	June 5	690	162	67	1321
Fruit-carrier.....	W. E. Howell and W. H. Gilbert.....	516,437	Mar. 13	1154	276	66	1684
Fruit carrier.....	E. E. Wade.....	524,568	Aug. 14	1037	255		
Fruit carrier.....	I. B. Wollard.....	524,625	Aug. 14	1132	278	68	886
Fruit-cleaning machine.....	T. H. Bell.....	523,394	July 24	2105	529	68	442
Fruit-clipper.....	T. K. Godbey.....	519,999	May 15	1850	452	67	910
Fruit clipper and gatherer.....	C. W. Crutsinger.....	516,889	Mar. 13	1080	287	66	1660
Fruit cutter and press.....	F. D. Ridge.....	515,791	Mar. 6	103	21	66	1473
Fruit cutting and pitting machine.....	J. F. Rehm.....	517,588	Apr. 3	281	65	67	56
Fruit-drier.....	C. B. Clark.....	522,649	July 10	815	203	68	173
Fruit-drier.....	J. P. Duval.....	512,100	Jan. 2	619	149	66	119
Fruit-drier.....	C. J. Kurtz.....	515,343	Feb. 27	2365	561	66	1323
Fruit-drier.....	D. E. Sampson.....	523,686	July 31	2628	653		
Fruit-drier. Steam.....	J. M. Coulter.....	530,506	Dec. 11	765	187	69	1372
Fruit-gatherer.....	A. Houghton.....	526,574	Sept. 25	2177	520		
Fruit-gatherer.....	H. M. Rabun.....	522,492	July 3	539	137	68	107
Fruit-gatherer.....	M. Reus.....	527,622	Oct. 16	1553	376	69	316
Fruit-gatherer.....	J. K. Woodward.....	517,786	Apr. 3	622	156	67	121
Fruit-holder.....	T. Leach.....	527,999	Oct. 23	2233	539	69	457
Fruit holder.....	W. McCausland.....	524,645	Aug. 14	1163	286	68	893
Fruit-huller.....	J. A. Murray.....	528,257	Oct. 30	2679	646	69	555
Fruit-jar.....	W. G. Burns.....	516,761	Mar. 20	1714	403	66	1803
Fruit-jar.....	F. A. Dixon.....	522,785	July 10	1067	264	68	217
Fruit-jar.....	E. Williams.....	512,349	Jan. 9	1022	250	66	205
Fruit-jar.....	J. H. Williams.....	528,315	Oct. 30	2779	671	69	571
Fruit, &c. Machine for sorting or grading.....	F. N. Ellithorpe.....	527,953	Oct. 23	2135	513	69	440
Fruit or berry box.....	E. L. Walker.....	512,571	Jan. 9	1397	337	66	276
Fruit or lard press.....	C. F. Meyer.....	525,023	Aug. 28	1824	444	68	1040
Fruit-picker.....	L. Abbott.....	515,702	Feb. 27	2846	708	66	1434
Fruit-picker.....	G. W. Armstrong.....	515,352	Mar. 6	197	46	66	1489
Fruit-picker.....	W. H. Haw.....	517,041	Mar. 27	2188	518	66	1909
Fruit-picker.....	A. C. Hedden.....	516,889	Mar. 20	1913	452	66	1842
Fruit-picker.....	J. C. Pratt.....	516,728	Mar. 20	1661	394	66	1794
Fruit-picker.....	B. A. Wright.....	519,371	May 8	796	195		
Fruit-picker or pruner.....	I. C. Stetson.....	516,556	Mar. 13	1362	324	66	1722
Fruit-pitting machine.....	F. C. Staniford.....	522,627	July 10	782	197	68	167
Fruit-pitting machine.....	S. Standish.....	529,817	Nov. 27	2304	548	69	1115
Fruit-sizer.....	H. C. Jones.....	529,032	Nov. 13	921	219		
Fruit-stoner.....	J. Boeri.....	519,939	May 15	1748	429	67	892
Fruit-wrapping device.....	B. Leonard.....	528,906	Nov. 6	716	169	69	777
Fruit-wrapping machine.....	T. E. Nininger.....	516,638	Mar. 13	1497	356	66	1748
Frying batter. Tool for.....	B. F. Metcalf.....	522,797	July 10	1084	267		
Frying-frame. Culinary.....	C. G. Poland.....	520,846	June 5	165	37	67	1227
Frying-pan-handle rest.....	C. C. Hover.....	528,100	Oct. 23	2403	580	69	488
Fuel. Apparatus for manufacturing artificial.....	L. Konow.....	529,278	Nov. 13	1354	325	69	911
Fuel. Block or briquet of.....	T. W. Lee.....	530,698	Dec. 11	1110	299	69	1432
Fuel. Composition for artificial.....	J. F. Quinn.....	521,180	June 12	762	270		

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Fuel. Composition of matter for artificial	E. Nienstaedt	523,368	July 24	2066		68	435
Fuel-economizer	L. J. Hirt	518,718	Apr. 24	2230	555	67	451
Fuel-economizer	J. Milne	519,023	May 1	136	33	67	562
Fuel-feeding device	J. Davies	524,579	Aug. 14	1051	250	68	871
Fuel-feeding measuring and regulating device. Automatic	W. H. Cooke	515,932	Mar. 6	311	74	66	1511
Fuel. Garbage and sawdust	J. D. Oligny	524,488	Aug. 14	902		68	844
Fuel-support or grate	E. Fales	526,073	Sept. 18	1307	303	68	1414
Fulminating compound	H. Maxim	529,334	Nov. 13	1447		69	930
Fume-arrester	J. J. Storer	516,664	Mar. 20	1532	369	66	1774
Fumes of lead sulfid. Method of and apparatus for saving	E. O. Bartlett	515,038	Feb. 20	1750	442	66	1214
Fumigator	H. Hoffman	525,497	Sept. 4	297	73	68	1207
Fumigator	E. G. Horne	524,943	Aug. 21	1666	407	68	994
Fumigator	T. A. Manahan	527,699	Oct. 16	1684	405	69	310
Fumigator. Poultry	B. Coddington	522,337	July 3	278	73	68	56
Funnel	C. W. Beall	529,098	Nov. 27	2624	630	69	1176
Funnel	H. G. James	530,690	Dec. 11	1097	266	69	1429
Funnel	I. F. Root and W. O. Silvey	531,388	Dec. 25	2317	553	69	1684
Funnel. Automatic	H. I. Keiner	530,228	Dec. 4	271	67	69	1264
Fur from pelts. Machine for cutting	C. E. Sackett	517,397	Mar. 27	2820	650 660	66	2033
Furnace:							
See Bagasse-furnace.	Muffle-furnace.						
Blast-furnace.	Open-hearth furnace.						
Boiler-furnace.	Ore-roasting furnace.						
Boiler or other furnace.	Ore roasting and smelting furnace.						
Brick-kiln furnace.	Pigment-furnace.						
Calcline-furnace.	Portable furnace.						
Coking-furnace.	Regenerating-furnace.						
Cremation-furnace.	Regenerative furnace.						
Crematory furnace.	Reverberatory furnace.						
Cupola-furnace.	Reverberatory and regenerative furnace.						
Electric furnace.	Roasting-furnace.						
Fireplace-furnace.	Smelting-furnace.						
Garbage-cremating furnace.	Smelting and refining furnace.						
Gas-furnace.	Smelting and separating furnace.						
Gas-burning furnace.	Smoke-abating furnace.						
Glass-furnace.	Smoke-consuming furnace.						
Glass-melting furnace.	Smoke and gas consuming furnace.						
Heating-furnace.	Smoke preventing furnace.						
Hot-air furnace.	Smokeless furnace.						
Hot-water furnace.	Soldering-iron furnace.						
Japanning-furnace.	Tank-furnace.						
Locomotive or other furnace.							
Metallurgical furnace.							
Furnace	E. and A. W. Bennis	528,219	Oct. 30	2511	629	69	540
Furnace	R. Bow	520,032	May 22	1910	467 468	67	936
Furnace	M. C. Browne	514,906	Feb. 20	1551	388	66	1178
Furnace	A. Bryce	526,612	Sept. 25	2241	535	68	1601
Furnace	T. E. Caddy	521,203	June 12	802	188 189	67	1355
Furnace	G. M. Conway	520,035	May 22	1913	469	67	937
Furnace	E. B. Cox	517,044	Apr. 3	378	91	67	73
Furnace	E. B. Cox	517,645	Apr. 3	381	91	67	74
Furnace	E. B. Cox	518,578	Apr. 17	1978	489	67	392
Furnace	S. J. Curry	515,197	Feb. 20	1997	498	66	1260
Furnace	A. L. Engelbach and S. E. Bretherton	518,493	Apr. 17	1828	453	67	367
Furnace	E. L. Ford	513,100	Jan. 23	2283	552	66	527
Furnace	W. Freakley	522,340	July 3	283	74	68	57
Furnace	G. F. Gallagher and T. B. Moore	526,776	Oct. 2	190	42	69	34
Furnace	F. B. Giesler	526,524	Sept. 25	2104	501	68	1575
Furnace	R. Hartje	515,471	Feb. 27	2474	612	66	1362
Furnace	H. W. Hemingway	513,680	Jan. 30	3262	801 802	66	747
Furnace	J. Hinstin. (Reissue)	11,420	May 22	2554	617 618	67	1056
Furnace	F. W. Ingram and E. E. Carr	524,323	Aug. 14	614	148	68	792
Furnace	A. Jay	522,215	July 3	72	15, 16	68	14
Furnace	N. Johnson	529,795	Nov. 27	2253	537 538	69	1105
Furnace	E. Jolicard	523,579	July 24	2432	610	68	500
Furnace	D. Jones	513,641	Jan. 30	3196	784	66	736
Furnace	F. A. Jones	528,944	Nov. 13	791	185	69	811
Furnace	J. J. de Kinder	523,040	July 17	1492	371	68	313
Furnace	A. Kienne	513,515	Jan. 30	2975	732	66	696
Furnace	R. H. Laird	515,667	Mar. 6	214	50	66	1493
Furnace	G. Maag	530,469	Dec. 4	734	179	69	1349
Furnace	D. J. McKenzie and W. Martin	524,392	Aug. 14	751	183	68	816
Furnace	T. B. Moore	526,657	Sept. 25	2317	554	68	1615
Furnace	F. H. Richards	515,612	Feb. 27	2695	670	66	1405
Furnace	F. H. Richards	517,627	Apr. 3	345	82	67	67
Furnace	M. H. C. Shann	518,629	Apr. 24	2061	513	67	422
Furnace	I. D. Smead	520,124	May 22	2067	504 505	67	965
Furnace	H. D. Smith	531,394	Dec. 25	2324	554	69	1685

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Furnace.....	S. M. Trapp.....	523,089	July 17	1557	{ 390 391	{ 68	326
Furnace.....	J. W. Upson.....	523,249	July 17	1869	{ 469 470	{ 68	382
Furnace.....	O. Wagener.....	516,748	Mar. 20	1699	402	66	1800
Furnace.....	J. P. Wels.....	530,869	Dec. 11	1378	328	69	1481
Furnace.....	J. W. Wilkinson.....	520,551	May 29	2805	677	67	1118
Furnace.....	A. H. Woodruff.....	526,475	Sept. 25	2,333	424	68	1562
Furnace.....	R. H. Yeoman.....	525,399	Sept. 4	145	36	68	1177
Furnace air-feeding device.....	T. Crauey.....	518,054	Apr. 10	1068	270	67	211
Furnace-bottom.....	A. Beyer.....	524,238	Aug. 7	456	107	68	745
Furnace-breasts. Method of and apparatus for cooling.....	M. W. Iles.....	515,085	Feb. 20	1818	458	66	1927
Furnace cast-house. Blast.....	C. L. Miller and J. R. George.....	518,415	Apr. 17	1702	422	67	344
Furnace cast-houses. Mold for blast.....	C. L. Miller and J. R. George.....	518,417	Apr. 17	1704	423	67	345
Furnace-charging apparatus. Blast.....	F. C. Roberts.....	519,094	May 1	264	63	67	586
Furnace-door.....	L. Duffaer.....	520,730	May 29	3108	753	67	1173
Furnace-door.....	C. K. Pickles.....	521,447	June 12	1242	293	67	1438
Furnace doors and mouths. Combination water-jacket for.....	S. G. Leyson.....	530,539	Dec. 11	834	206	69	1384
Furnace draft-regulating apparatus.....	G. L. Thiehl.....	526,419	Sept. 25	1938	{ 461 462 463	{ 68	1545
Furnace. Fine-fuel.....	H. Kluepfel.....	516,652	Mar. 20	1532	365	66	1770
Furnace. Fine-fuel.....	C. Wegener.....	517,632	Apr. 3	356	84, 85	67	70
Furnace for burning refuse matter.....	T. P. Mahon.....	523,478	July 24	2267	570	68	469
Furnace for distilling zinc.....	C. Francisci.....	526,808	Oct. 2	228	55	69	43
Furnace for heating or working metals electrically.....	C. L. Coffin.....	512,602	Jan. 9	1443	348	66	284
Furnace for roasting and distilling refractory ores.....	A. Spier.....	516,126	Mar. 6	628	147	66	1570
Furnace for steel-melting or analogous purposes. High-temperature.....	B. H. Thwaite.....	515,452	Feb. 27	2443	{ 605 606	{ 66	1356
Furnace for treating refractory ores.....	F. C. Butterfield.....	518,662	Apr. 24	2120	{ 530 531	{ 67	432
Furnace for treating refuse of cities.....	J. J. Storer.....	518,285	Apr. 17	1464	366	67	301
Furnace fuel-feeding device.....	J. W. Wetmore.....	524,518	Aug. 14	956	235	68	853
Furnace-gases. Apparatus for separating metallic fumes from.....	M. W. Iles.....	515,084	Feb. 20	1817	458	66	1927
Furnace-grate.....	S. F. Dobbins.....	525,191	Aug. 28	2128	519	68	1093
Furnace-grate.....	J. H. Meissner.....	529,286	Nov. 13	1363	327	69	913
Furnace-grate.....	T. H. Müller.....	512,735	Jan. 16	1659	{ 398 399	{ 66	340
Furnace-grate.....	W. R. Roney and O. A. Stranahan.....	519,775	May 15	1483	360	67	842
Furnace grate-bar.....	G. H. Randolph.....	524,468	Aug. 14	872	215	68	838
Furnace grate. Boiler.....	H. C. Wiggius.....	517,130	Mar. 27	2344	553	66	1940
Furnace. Liquid-fuel.....	E. S. Sperry.....	515,261	Feb. 20	2112	524	66	1282
Furnace. Liquid-fuel.....	E. S. Sperry.....	518,794	Apr. 24	2353	583	67	474
Furnace. Mechanical-stoker.....	R. Newton.....	513,244	Jan. 23	2524	609	66	576
Furnace or other fine. Still.....	T. W. Chamberlain and E. L. Agan.....	517,404	Mar. 27	2835	663	66	2036
Furnace or stove grate.....	A. Jahant.....	528,165	Oct. 30	2510	607	69	523
Furnace-pipe.....	H. McMillin.....	525,467	Sept. 4	256	62	68	1198
Furnace. Self-feeding smokeless.....	G. Gatlackson.....	520,966	June 5	422	{ 101 102	{ 67	1273
Furnace-tap.....	E. P. Mathewson.....	515,244	Feb. 20	2084	518	66	1276
Furnace. Traveling-floor.....	F. H. Richards.....	527,453	Oct. 16	1279	314	69	267
Furnace. Traveling-grate.....	E. B. Coxo.....	527,593	Oct. 16	1509	367	69	308
Furnace. Traveling-grate.....	F. H. Richards.....	517,067	Mar. 27	2243	531	66	1919
Furnace. Traveling-grate.....	F. H. Richards.....	527,448	Oct. 16	1262	{ 310 311	{ 69	262
Furnace. Traveling-grate.....	F. H. Richards.....	527,449	Oct. 16	1264	{ 312 313	{ 69	263
Furnace. Traveling-grate.....	F. H. Richards.....	527,450	Oct. 16	1268	312	69	263
Furnace. Traveling-grate.....	F. H. Richards.....	527,451	Oct. 16	1272	{ 312 313	{ 69	264
Furnace. Traveling-grate.....	F. H. Richards.....	527,452	Oct. 16	1275	313	69	265
Furnace. Traveling-grate.....	F. H. Richards.....	527,454	Oct. 16	1284	{ 314 315	{ 69	268
Furnace. Traveling-grate.....	F. H. Richards.....	527,455	Oct. 16	1288	315	69	269
Furnace. Traveling-grate.....	F. H. Richards.....	527,719	Oct. 16	1708	412	69	345
Furnace-walls. Composition for.....	J. Kirchmann and K. Schwing-hammer.....	529,450	Nov. 20	1681	.....	69	992
Furnaces. Air-induction apparatus for.....	J. Mills.....	527,615	Oct. 16	1543	374	69	314
Furnaces. Air-moistening device for hot air.....	G. W. Fridrich.....	528,202	Oct. 30	2576	623	69	534
Furnaces. Apparatus for controlling the admission of air to.....	G. L. Thiehl.....	515,377	Feb. 27	2324	{ 576 577 578	{ 66	1334
Furnaces. Apparatus for controlling the admission of air to.....	G. L. Thiehl.....	526,510	Sept. 25	2080	{ 495 496	{ 68	1571
Furnaces. Automatic device for feeding megass.....	W. P. Abell.....	522,445	July 3	472	120	68	94
Furnaces. Blast-feeding apparatus for.....	E. Cartwright.....	525,045	Aug. 28	1-66	456	68	1048
Furnaces. Charging apparatus for filling blast.....	T. F. Withersbee.....	518,769	Apr. 24	2315	575	67	467
Furnaces. Cold-air-draft regulator for.....	A. H. Zimmerman.....	518,984	May 1	78	20	67	550
Furnaces. Construction of puddling or other.....	J. L. Smith.....	519,620	May 8	1239	297	67	784
Furnaces. Dust-chamber for metallurgical.....	A. Chanute and M. W. Iles.....	515,071	Feb. 20	1800	454	66	1223
Furnaces. Forehearth for smelting.....	M. W. Iles.....	522,417	July 3	417	{ 106 107	{ 68	83
Furnaces. Forehearth-jacket for blast.....	M. W. Iles.....	515,083	Feb. 20	1815	458	66	1226
Furnaces. Grate for boiler or other.....	W. McClave.....	529,291	Nov. 13	1373	{ 330 331	{ 69	915
Furnaces. Means for promoting combustion in.....	J. B. Davids.....	530,299	Dec. 4	394	99	69	1287
Furnaces. Method of and apparatus for extracting moisture from air for blast.....	J. Gayley.....	527,844	Oct. 23	1923	463	69	401
Furnaces. Preparing charges for and charging metallurgical.....	W. B. Hughes.....	524,551	Aug. 14	1013	250	68	863
Furnaces. Promoting combustion in.....	J. B. Davids.....	519,325	May 8	708	174	67	688

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Furnaces, shafts, chimneys, &c. Construction of blast.	W. P. Ingham	528,480	Oct. 30	3063	{ 742 743 }	69	622
Furnaces. Stoker for engine.	E. T. McWhorter	530,117	Dec. 4	72	20	69	1228
Furnaces. Wind-jacket for blast.	L. B. Walker and J. Murphy	520,719	May 29	3093	748	67	1170
Furniture.	R. B. Sigafeos	531,010	Dec. 18	1629	{ 386 387 }	69	1542
Furniture and collapsible table. Combination article of	A. W. Ellison	528,332	Nov. 13	762	179	69	806
Furniture-base.	W. P. Tracy	527,007	Oct. 2	548	134	69	104
Furniture-clamp.	D. Vandermeulen	513,027	Jan. 16	2186	521	66	438
Furniture. Combination.	C. B. Geer	516,005	Mar. 6	439	101	66	1534
Furniture. Combination.	E. L. Still	519,930	May 15	1733	425	67	889
Furniture cover-holding device.	P. J. Mayent	524,834	Aug. 21	1488	363	68	964
Furniture. Device for fastening slip-covers on upholstered	H. Seher	517,306	Mar. 27	2640	620	66	1997
Furniture. Folding.	S. Anfrecht	519,937	May 15	1745	428	67	891
Furniture-joint. School.	G. M. Bennett	525,756	Sept. 11	754	175	68	1301
Furniture-joints. Device for tightening.	H. T. Davis	526,615	Sept. 25	2244	536	68	1602
Furniture-leg attachment.	E. Dempsey	527,145	Oct. 9	767	187	69	157
Furniture. Office.	W. J. McGrath	517,122	Mar. 27	2332	549	66	1938
Furniture-packing device.	E. F. Tubach	518,167	Apr. 10	1247	313	67	243
Furniture. Revolving.	O. O. Krabol and C. Bostad	531,538	Dec. 25	2579	617	69	1734
Funrow-opener and stalk-knocker. Combined.	G. W. Murray	517,960	Apr. 10	904	226	67	185
Fuse-box.	C. L. Ashley	531,355	Dec. 25	2255	538	69	1672
Fuse-box.	A. Ekström	520,772	June 5	19	4	67	1200
Fuse-box. Electrical.	J. W. Packard	527,071	Oct. 9	647	157	69	136
Fuse-box. Multiple-electric.	E. A. Parson	520,378	May 22	2517	609	67	1049
Fuse-capper.	G. A. Teel	527,132	Oct. 9	747	183	69	154
Fuse. Electric safety.	J. Sachs	522,232	July 3	100	23	68	19
Fuse. Electrical safety.	O. M. Ran	526,502	Sept. 25	2070	492	68	1569
Fuse for projectiles. Percussion.	W. J. Dungan	523,110	July 17	1612	404	68	337
Fuse for projectiles. Time.	W. J. Smith	527,250	Oct. 9	937	227	69	189
Fuse for shells. Time.	M. Dreger and A. Wratzke	526,344	Sept. 18	1769	420	68	1502
Fuse. Multiple blasting.	W. J. C. Doyle	530,025	Nov. 27	2676	642	69	1187
Fuse. Safety percussion.	H. C. Seddon	521,129	June 5	667	{ 157 158 }	67	1318
Fuse. Shell.	D. Conekin	523,881	July 31	2978	741	68	617
Fuse. Time.	W. J. Smith	527,222	Oct. 9	889	{ 215 216 }	69	181
Gage:							
See Boiler water-gage. Pressure-gage.							
Caliper-gage. Rain-gage.							
Depth-gage. Ring-gage.							
Faucet register-gage. Rule-gage.							
Finger-gage. Shingle-gage.							
Gas-pressure gage. Steam-pressure gage.							
Hoof-gage. Surface-gage.							
Liquid-gage. Watchmaker's length-gage.							
Lock marking-gage. gage.							
Lumber-gage. Water-gage.							
Micrometer-gage. Weather-board gage.							
Micrometer surface-gage. Wire-gage.							
Gage.	L. O. Barrett	530,468	Dec. 4	674	168	69	1339
Gage.	C. B. Bosworth	522,551	July 3	635	162	68	124
Gage.	T. Francis	529,613	Nov. 20	1960	466	69	1043
Gage and finger-guard. Combined	A. T. Snell	523,360	July 24	2082	524	68	438
Gage and square. Combined hinge.	A. D. Goodell	531,114	Dec. 18	1811	430	69	1575
Gage-brace.	J. F. Alley	521,579	June 19	1479	346	67	1497
Gage for bias-cutters.	N. Steen	519,509	May 8	1025	248	67	745
Gaining-machine.	R. J. Laidlaw	515,912	Mar. 6	280	66	66	1506
Gaining-machine.	C. Seymour	515,253	Feb. 20	2098	521	66	1279
Galvanic battery.	C. E. Buell	523,758	July 31	2759	685	68	576
Galvanic battery.	M. M. Clark	528,296	Oct. 30	2728	659	69	563
Galvanic battery.	F. Fullner	522,559	July 3	654	165	68	128
Galvanic battery.	M. M. Hayden	528,669	Nov. 6	267	65	69	693
Galvanic battery.	C. W. A. Hertel	519,330	May 8	715	176	67	690
Galvanic battery.	G. Hewett	522,983	July 17	1393	348	68	295
Galvanic battery.	L. F. Johnson	522,836	July 10	1142	283	68	231
Galvanic battery.	E. F. Northrup	520,120	May 22	2059	503	67	964
Galvanic element.	A. Heil	523,892	July 31	2995	745	68	620
Galvanic ring.	D. Hattenback	530,522	Dec. 11	803	190	69	1378
Galvanizing apparatus.	G. G. McMurtry	530,491	Dec. 4	737	120	69	1349
Galvanizing furnace. Pot or tank.	G. Lieban	515,594	Feb. 27	2667	662	66	1400
Galvanometer.	E. G. Willyoung	517,253	Mar. 27	2550	598	66	1980
Game apparatus.	J. Adler and J. A. Chase	512,144	Jan. 2	685	165	66	131
Game apparatus.	W. A. Barnes	526,554	Sept. 25	2145	513	68	1553
Game apparatus.	W. G. Burns	517,600	Apr. 3	298	69	67	59
Game apparatus.	C. F. Burlis	524,931	Aug. 21	1650	404	68	991
Game apparatus.	W. E. Castelow	522,704	July 10	902	222	68	189
Game apparatus.	C. C. Clawson	517,436	Apr. 3	21	5, 6	67	7
Game apparatus.	E. L. Coffin	517,262	Mar. 17	2565	601	66	1982
Game apparatus.	W. J. Hillis	516,789	Mar. 20	1750	412	66	1809
Game apparatus.	E. C. Howell	529,913	Nov. 27	2455	{ 591 592 }	69	1143
Game apparatus.	V. Kobler-Stauder	529,868	Nov. 27	2383	570	69	1131
Game apparatus.	O. Olsson	529,802	Nov. 27	2365	540	69	1107
Game apparatus.	G. S. Parker and J. P. Friend	526,908	Oct. 2	404	101	69	75
Game apparatus.	R. J. Rolfsen	524,297	Aug. 7	556	132	68	761
Game apparatus.	J. R. Rowlands	523,712	July 31	2677	{ 664 665 }	68	561
Game apparatus.	F. R. Schleisinger	526,946	Oct. 2	459	113	69	86
Game apparatus.	N. O. Starks	514,688	Feb. 13	1189	296	66	1095
Game apparatus.	P. Thamerus	514,520	Feb. 13	912	231	66	1042

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Game apparatus	G. Troxler, Jr.	516,994	Mar. 20	2092	495	66	1875
Game apparatus	E. Weibel	512,346	Jan. 9	1017	248	66	201
Game apparatus	C. E. Wheeland	524,475	Aug. 14	881	217	68	840
Game apparatus	M. M. Wilson	519,078	May 1	239	56	67	581
Game apparatus	L. Wyler	529,228	Nov. 13	1264	304	69	895
Game apparatus. Bubble.	E. E. McNaughton	519,770	May 15	1476	358	67	841
Game apparatus. Check-controlled	G. W. Brong	518,875	Apr. 24	2481	614 615	67	498
Game apparatus. Coin-controlled	M. O. Griswold	511,947	Jan. 2	375	87	66	71
Game apparatus. Coin-controlled	W. M. Keane	521,932	June 26	2102	504	67	1632
Game apparatus. Coin-controlled	H. Matern	518,617	Apr. 24	2036	506 507	67	418
Game apparatus. Coin-controlled	A. L. Pratt	531,469	Dec. 25	2465	587	69	1712
Game apparatus. Foot-ball	T. Knight	513,116	Jan. 23	2318	558	66	535
Game apparatus. Parlor	M. M. Wilson	512,421	Jan. 9	1150	279	66	229
Game-bag	G. H. Rawlings	519,271	May 1	592	144	67	652
Game-board	J. F. Beaman	529,582	Nov. 20	1915	456	69	1034
Game-board	C. E. Boyer	526,373	Sept. 25	1836	436	68	1527
Game-board	J. B. Davids	512,165	Jan. 2	733	177	66	140
Game-board	J. B. Davids	519,321	May 8	707	174	67	688
Game-board	C. W. Fabel	512,104	Jan. 2	625	150	66	120
Game-board	F. A. Higgins	511,773	Jan. 2	50	12	66	12
Game-board	W. Hoffman	519,041	May 1	168	40	67	569
Game-board or apparatus	H. W. C. Smith	521,737	June 19	1745	414	67	1548
Game-board support	J. Green	527,279	Oct. 9	992	240	69	198
Game. Chasing	A. L. Leonard	512,654	Jan. 9	1536	368	66	302
Game. Coin-controlled	J. Roeber	518,726	Apr. 24	2245	559	67	454
Game-count r	G. C. Bateman	514,897	Feb. 20	1538	384	66	1176
Game-counter	A. Folger and W. H. Winder	529,118	Nov. 13	1065	157	69	860
Game-counter	H. C. Phillips	521,859	June 26	2005	484	67	1614
Game-counter	W. Sowdon	515,560	Feb. 27	2614	648	66	1389
Game-counter	J. G. Ward and J. W. Ball	525,777	Sept. 11	790	182	68	1308
Game instructor. Child's	P. A. Finn	515,076	Feb. 20	1806	456	66	1224
Game-machine. Disk-operated	J. A. Hunt	517,046	Mar. 27	2199	520 521	66	1911
Game of curling. Device for playing the	J. B. Hamilton	517,103	Mar. 27	2304	543	66	1932
Game or amusement	J. B. Davids	519,326	May 8	709	174	67	689
Game or puzzle. Combination	W. T. Carter	524,703	Aug. 21	1261	311	68	922
Game-table	W. E. Andrew	515,458	Feb. 27	2452	607	66	1357
Game-table	G. Hunzinger	522,014	June 26	2265	543	67	1639
Game-table	J. L. Schachel	518,860	Apr. 24	2453	608	67	492
Game-table for soap bubbles	E. E. McNaughton	529,043	Nov. 13	944	223	69	835
Game-table. Parlor	J. A. Standen	512,337	Jan. 9	1003	248	66	201
Games. Apparatus for playing	C. A. L. Totten	526,469	Sept. 25	2022	482	68	1560
Games. Score-board for foot-ball	A. A. Irwin	515,959	Mar. 6	357	84	66	1520
Garbage and similar waste products. Utilizing	N. B. Powter	530,126	Dec. 4	69	23	69	1231
Garbage-burning apparatus	W. Risley	517,301	Mar. 27	2631	617 618	66	1995
Garbage-can	S. Lebach	523,125	July 17	1651	412	68	343
Garbage-cremating apparatus	T. M. Clark	526,516	Sept. 25	2092	498 499	68	1574
Garbage-cremating furnace	J. F. Chazotte	520,105	May 22	2073	496	67	960
Garbage-crematory	J. E. McKay and A. G. Delaney	517,288	Mar. 27	2637	611 612	66	1990
Garbage-crematory or furnace	W. L. Johnson	516,706	Mar. 20	1619	386	66	1786
Garbage furnace	J. B. Wayt	523,699	July 31	2655	658	68	557
Garbage-receptacle	D. Daniels	514,881	Feb. 13	1506	377	66	1155
Garbage-receptacle	H. A. Heidsieck	525,103	Aug. 28	1973	483	68	1066
Garbage-receptacle	J. D. Houseman, Jr.	522,525	July 3	594	152	68	117
Garbage-receptacle	H. B. Nailor	512,261	Jan. 2	872	210	66	164
Garbage-receptacle	B. F. Wise	513,628	Jan. 30	3174	779	66	732
Garbage. Treating	W. MacDonald	528,002	Oct. 23	2237		69	458
Garbage-treating apparatus	C. A. Ball	529,236	Nov. 13	1279	307 308	69	897
Garden implement	C. G. Mortenson	529,562	Nov. 20	1881	447	69	1027
Garden implement	D. and W. Runck	517,888	Apr. 10	770	192	67	163
Garment and belt. Combined military	E. Rice	523,177	July 17	1745	437 438	68	360
Garment and gusset therefor. Bifurcated	S. B. and F. F. Lewis	517,579	Apr. 3	268	61	67	52
Garment and knitting same. Union	W. A. O'Brien	527,216	Oct. 9	874	213	69	178
Garment. Body	F. W. Warner	519,487	May 8	993	240	67	739
Garment-clasp	G. Bradshaw	523,458	July 24	2228	560	68	463
Garment-clasp	D. Roth	527,887	Oct. 23	2013	463	69	416
Garment-clasp	S. Schwarz	524,405	Aug. 14	780	191	68	821
Garment-clasp	S. Schwarz	524,406	Aug. 14	781	191	68	821
Garment. Combination	R. M. Shelley	512,229	Jan. 2	827	200	66	156
Garment. Dancer's	M. L. Fuller	518,347	Apr. 17	1583	392	67	322
Garment-fastener	A. Picken	529,748	Nov. 27	2178	519	69	1091
Garment-fastener	E. S. Smith	520,545	May 29	2795	675	67	1115
Garment-fastener	W. S. Wheatfield	530,737	Dec. 11	1173	285	69	1442
Garment fastening	M. C. Moran	521,384	June 12	1125	265	67	1417
Garment-hanger	N. Neilen	519,964	May 15	1769	438	67	900
Garment-holder	C. Peacock	526,789	Oct. 2	200	47	69	38
Garment-hook	R. Ahlers	514,584	Feb. 13	1021	257	66	1062
Garment-hook	O. L. Mason and R. C. Cole	531,412	Dec. 25	2422	576	69	1705
Garment-hook	J. J. Ziegler, Jr.	525,642	Sept. 4	532	128	68	1250
Garment-pattern. Adjustable	G. A. 966	524,966	Aug. 21	1696	416	68	1000
Garment-protector	H. Rooke	518,859	Apr. 24	2452	608	67	491
Garment-securing device	O. Van Oostrum	529,147	Nov. 13	1119	271	69	870
Garment-stand	O. Borchert	520,251	May 22	2307	559	67	1008
Garment-stretcher	L. Mallory	529,283	Nov. 13	1360	326	69	912
Garment-supporter	G. E. Adams	521,775	June 26	1833	437	67	1579
Garment-supporter	F. G. Davis	521,259	June 12	902	213	67	1374
Garment-supporter	G. W. Ferguson	526,522	Sept. 25	2102	501	68	1575

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Garment-supporter.	W. C. Hoyt.	517,278	Mar. 27	2587	606	66	19-7
Garment-supporter.	W. Ogden.	517,658	Apr. 3	414	100	67	80
Garment-supporter.	G. W. Parker.	518,964	May 1	43	11	67	544
Garment-supporter.	W. A. Stephen.	524,872	Aug. 21	1545	378	68	973
Garment-supporter.	W. H. Sythes.	512,670	Jan. 9	1557	374	66	307
Garment-supporter.	C. J. White.	521,560	June 19	1444	336	67	1491
Garment-supporter and underwaist.	C. F. Richmond.	524,218	Aug. 7	429	102	68	740
Garment-supporter clasp.	F. D. Harding.	531,415	Dec. 25	2360	563	69	1092
Garment-supporter clasp.	C. W. Stimson.	521,830	June 26	1913	450	67	1595
Garment-supporting clasp.	F. L. Chappell.	511,930	Jan. 2	347	81	66	66
Garter adjuster and fastener.	W. L. Braddock.	517,678	Apr. 3	445	107	67	86
Gas and electric coupling.	W. J. Kelly.	513,112	Jan. 23	2311	557	66	533
Gas and electric light fixture. Combination.	G. A. Loeben.	529,451	Nov. 20	1682	402	69	992
Gas apparatus.	T. Curley.	518,181	Apr. 10	1271	320	67	247
Gas apparatus.	S. M. Mullin and S. C. Green.	516,573	Mar. 13	1390	{ 330 331 }	66	1727
Gas apparatus.	C. E. White.	517,910	Apr. 10	810	204	67	170
Gas. Apparatus for administering nitrous-oxid.	W. Smitbard.	514,628	Feb. 13	1092	272	66	1076
Gas. Apparatus for charging liquids with.	E. Rueff.	518,514	Apr. 17	1871	463	67	374
Gas. Apparatus for manufacturing.	E. R. Ellsworth.	522,687	July 10	875	{ 216 217 }	68	184
Gas. Apparatus for manufacturing.	F. Mayer.	523,224	July 17	1821	{ 457 458 }	68	373
Gas. Apparatus for manufacturing hydrogen.	P. Yarrington.	525,380	Sept. 4	107	27, 28	68	1169
Gas. Apparatus for manufacturing water.	J. R. Peters.	516,226	Mar. 13	804	188	66	1619
Gas. Apparatus for releasing carbonic-acid.	C. F. A. Convert.	518,587	Apr. 24	1994	{ 403 494 }	67	411
Gas. Apparatus for simultaneously scrubbing, purifying, and condensing.	C. W. Blodget.	516,344	Mar. 13	987	234	66	1654
Gas. Apparatus for the manufacture of.	W. A. Allen.	531,144	Dec. 18	1868	{ 443 444 }	69	1586
Gas. Apparatus for the manufacture of.	R. M. Bidelman.	518,582	Apr. 24	1988	{ 491 492 }	67	409
Gas. Apparatus for the manufacture of.	P. Dvorkovitz.	512,950	Jan. 16	2071	491	66	417
Gas. Apparatus for the manufacture of.	E. R. Ellsworth.	523,112	July 17	1617	{ 405 406 }	68	338
Gas. Apparatus for the manufacture of.	J. W. Hayes.	515,680	Feb. 27	2805	{ 699 700 }	66	1427
Gas. Apparatus for the manufacture of.	J. J. Kirkham.	516,865	Mar. 20	1877	444	66	1835
Gas. Apparatus for the manufacture of hydrogen.	H. M. Lovejoy.	526,243	Sept. 18	1603	376	68	1469
Gas apparatus. Steam supply and circulating system for water.	O. N. Guldin.	524,108	Aug. 7	235	55	68	705
Gas apparatus. Water.	A. G. Glasgow.	519,039	May 1	165	39	67	568
Gas apparatus. Water.	A. G. Glasgow.	519,040	May 1	166	40	67	568
Gas apparatus. Water.	O. N. Guldin.	529,262	Nov. 13	1327	319	69	906
Gas apparatus. Water-oil.	H. Fourness.	526,364	Sept. 18	1814	{ 430 431 }	68	1510
Gas as fuel for calcining limestone. Apparatus for utilizing producer.	W. A. Koneman.	513,945	Jan. 30	3673	904	66	828
Gas-balance for ascertaining specific gravity of gases.	M. Arndt.	527,397	Oct. 16	1187	292	69	249
Gas-burner.	H. Epprecht.	520,521	May 29	2753	666	67	1107
Gas-burner.	S. P. Essex.	529,324	Nov. 13	1433	345	69	927
Gas-burner.	H. A. Fry.	515,669	Feb. 27	2784	693	66	1423
Gas-burner.	G. Heidel.	520,309	May 22	2397	582	67	1026
Gas-burner.	P. Keller.	528,883	Nov. 6	660	158	69	767
Gas-burner.	S. M. Kemp.	513,790	Jan. 30	3433	847	66	779
Gas-burner.	R. Pemberton.	516,107	Mar. 6	599	140	66	1565
Gas-burner.	C. H. Robbins.	528,446	Oct. 30	2999	725	69	610
Gas-burner.	C. Whittingham.	529,003	Nov. 13	878	207	69	826
Gas-burner. Automatic.	G. I. Ewers.	515,758	Mar. 6	40	12	66	1462
Gas-burner for heaters.	A. T. Welch.	519,749	May 15	1439	{ 347 348 }	67	834
Gas-burner governor.	A. Hall.	516,328	Mar. 13	966	228	66	1649
Gas-burner heating attachment.	E. Copland.	516,153	Mar. 6	673	158	66	1579
Gas burner. Illuminating.	C. A. Shaw.	522,088	June 26	2375	571	67	1681
Gas-burner lighting device.	G. I. Ewers.	515,759	Mar. 6	42	12	66	1163
Gas burner. Oil.	J. M. Ferguson.	514,218	Feb. 6	422	102	66	931
Gas burner. Oil.	I. Wood.	513,028	Jan. 16	2186	521	66	439
Gas-burner regulator.	F. M. Brooks and C. J. Wolfreys.	514,143	Feb. 6	267	66	66	904
Gas-burner safety attachment.	H. Eschweiler.	524,801	Aug. 21	1425	319	68	953
Gas-burning furnace for steam-boilers.	G. E. Belmor.	519,373	May 8	799	195	67	706
Gas. Charging and combining wort, liquors, &c., with carbonic-acid.	E. Adam and M. O. Rehfuß.	513,858	Jan. 30	3544	873	66	803
Gas-cleaner.	T. S. C. Lowe.	529,625	Nov. 20	1973	470	69	1045
Gas cocks. Clock mechanism for operating.	H. F. Lossie.	512,307	Jan. 9	953	233	66	193
Gas. Coin-freed apparatus for the automatic sale and delivery of.	J. Gow.	524,061	Aug. 7	157	35	68	691
Gas-compressor.	B. F. Silliman.	527,081	Oct. 9	661	161	69	139
Gas-controller.	E. Brownhill.	516,798	Mar. 20	1763	416	66	1811
Gas cut-off. Automatic.	L. Johnson and L. Fridlund.	531,123	Dec. 18	1828	434	69	1578
Gas cut-off device.	A. Kleinfeldt.	522,600	July 10	724	185	68	157
Gas cut-off device.	A. Kleinfeldt.	522,601	July 10	728	186	68	158
Gas-engine.	J. B. Carse.	518,177	Apr. 10	1266	319	67	216
Gas-engine.	J. B. Carse.	518,178	Apr. 10	1267	319	67	246
Gas-engine.	B. H. Coffey.	514,211	Feb. 6	411	{ 99 100 }	66	929
Gas-engine.	H. T. Dawson.	513,486	Jan. 30	2922	720	66	686
Gas-engine.	H. T. Dawson.	530,508	Dec. 11	780	{ 191 192 193 }	69	1374
Gas-engine.	W. W. Grant.	525,651	Sept. 4	546	{ 132 133 }	68	1252
Gas-engine.	J. W. Hartley and J. Kerr.	515,770	Mar. 6	73	17	66	1467
Gas-engine.	C. F. Hirsch.	536,837	Oct. 2	271	65, 66	69	51

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Gas engine.....	F. Hirsch.....	522,712	July 10	913	225 226 227 228	68	192
Gas-engine.....	F. Hirsch.....	530,523	Dec. 11	803	199 200	69	1379
Gas-engine.....	C. S. Hisey.....	514,713	Feb. 13	1233	307	66	1104
Gas-engine.....	J. Labataille and J. J. Graff.....	517,821	Apr. 3	671	167	67	130
Gas-engine.....	D. C. Luce.....	519,863	May 15	1032	397	67	871
Gas-engine.....	J. McGeorge.....	525,857	Sept. 11	949	213	63	1336
Gas-engine.....	F. S. Mead.....	528,006	Oct. 23	2241	541	69	458
Gas-engine.....	H. B. Migliavacca.....	528,105	Oct. 23	2409	583	69	489
Gas-engine.....	E. Narjot.....	515,530	Feb. 27	2569	636	66	1380
Gas-engine.....	F. C. Olin.....	525,358	Sept. 4	59	16, 17	68	1162
Gas-engine.....	J. and W. Paterson.....	528,489	Oct. 30	3076	746	69	625
Gas-engine.....	T. H. and J. T. H. Paul.....	530,237	Dec. 4	299	71	69	1263
Gas-engine.....	H. Pokony.....	514,271	Feb. 6	508	126	66	949
Gas-engine.....	S. D. Shepperd.....	521,443	June 12	1232	291 292	67	1436
Gas-engine.....	H. Swain.....	519,880	May 15	1659	403 404	67	875
Gas-engine.....	R. Thayer.....	517,077	Mar. 27	2259	534	66	1923
Gas-engine.....	H. Voll.....	527,635	Oct. 16	1575	360	69	321
Gas-engine. Explosive.....	J. Walrath.....	522,811	July 10	1103	272 273 274	68	224
Gas-engine igniter.....	F. Hirsch.....	518,717	Apr. 24	2229	555	67	451
Gas-engine. Vapor.....	W. W. Grant.....	514,359	Feb. 6	645	165 166	66	974
Gas-forcing plant.....	E. Hill.....	512,703	Jan. 16	1614	388	66	332
Gas from crude oil. Making fuel.....	C. F. A. Convert.....	517,681	Apr. 3	450	109	67	87
Gas from liquid by-products. Apparatus for separat- ing.....	J. A. Dixon.....	520,038	May 22	1918	470	67	938
Gas-furnace.....	G. Axdorfer.....	520,404	May 29	2561	619	67	1073
Gas. Furnace for producing fuel.....	J. Harleman.....	516,351	Mar. 13	998	237 238	66	1656
Gas furnace. Natural.....	F. Denz.....	514,310	Feb. 6	583	145	66	962
Gas-generating apparatus.....	H. F. D. Schwahn.....	521,479	June 19	1307	304 305	67	1466
Gas-generator.....	J. L. Hastings.....	530,944	Dec. 18	1509	358	69	1521
Gas-generator.....	H. F. Smith.....	517,398	Mar. 27	2825	661	66	2034
Gas-generator.....	D. Stearns.....	518,202	Apr. 10	1324	330 331	67	259
Gas generator and burner.....	C. F. Sanford.....	521,822	June 26	1901	456	67	1593
Gas-generators. Oil-feeding apparatus for.....	O. N. Guldlin.....	528,872	Nov. 6	644	154	69	764
Gas-governor.....	W. O. Ludovici.....	522,263	July 3	160	42	68	32
Gas-governor.....	S. H. Moore.....	521,664	June 19	1622	380	67	1524
Gas-governor. Automatic.....	J. J. Myers.....	522,480	July 3	522	133	68	104
Gas-governor. Station.....	J. Hawkyard.....	518,143	Apr. 10	1206	302	67	236
Gas-heater and germ-destroyer.....	W. L. Potter.....	512,056	Jan. 2	540	127	66	103
Gas heating apparatus.....	J. W. Underwood.....	512,132	Jan. 2	668	160	66	128
Gas-holder.....	A. Klönne.....	513,514	Jan. 30	2973	732	66	695
Gas-holder.....	H. Müller.....	530,284	Dec. 4	371	91	69	1283
Gas holder and purifier.....	D. McDonald.....	518,114	Apr. 10	1165	292	67	229
Gas-holder tank.....	F. Mayer.....	519,963	May 15	1788	438	67	899
Gas-jet shade attachment.....	V. I. Copland.....	524,459	Aug. 14	860	211	68	836
Gas-lighter. Electric.....	W. L. Brown.....	513,300	Jan. 23	2614	633	66	593
Gas-lighter. Electric.....	J. O. Dahlgren.....	515,397	Feb. 27	2360	565	66	1340
Gas-lighter. Electric.....	C. G. Savage.....	529,313	Nov. 13	1421	342	69	925
Gaslighting and extinguishing apparatus. Automatic.....	N. H. and A. B. Shaw.....	520,836	June 5	151	33	67	1225
Gas lighting and extinguishing apparatus. Time.....	A. B. Shaw.....	528,697	Nov. 6	315	76, 77	69	703
Gas-lighting attachment.....	F. M. Brooks.....	524,054	Aug. 7	140	31	68	688
Gas-lighting. Burner for incandescent.....	M. Horwitz.....	530,775	Dec. 11	1238	300	69	1456
Gas-lighting device.....	C. W. Muchall.....	524,449	Aug. 14	847	208	68	834
Gas-machine. Hydrogen.....	H. R. Pomeroy.....	517,062	Mar. 27	2234	529	66	1917
Gas-mains. Siphon test-box for.....	A. Bouvier.....	522,582	July 10	703	179	68	153
Gas-mains. Siphon test-box for.....	A. Bouvier.....	526,852	Oct. 2	298	72	69	57
Gas-making apparatus.....	E. R. Ellsworth.....	524,544	Aug. 14	1000	245 246	68	861
Gas-making apparatus.....	C. C. Gilmore.....	514,185	Feb. 6	346	83, 84	66	919
Gas-making apparatus.....	J. W. Kenevel.....	522,325	July 3	256	68	68	51
Gas-making apparatus.....	J. W. Kenevel.....	522,326	July 3	258	68	68	52
Gas-making apparatus.....	W. A. Koneman.....	520,687	May 29	3041	736	67	1161
Gas-making apparatus.....	J. E. Weaver.....	513,959	Jan. 30	3693	908 909 910	66	832
Gas. Manufacturing.....	M. Lorois.....	529,453	Nov. 20	1690	404	69	994
Gas. Manufacturing.....	G. M. Westman.....	517,202	Mar. 27	2470	581 582	66	1964
Gas-manufacturing apparatus.....	J. D. Blakeley.....	512,270	Jan. 9	893	216	66	181
Gas-meter.....	E. Haas.....	522,054	June 26	2323	558	67	1671
Gas-meter.....	C. W. Hinman.....	523,349	July 24	2037	512	68	430
Gas-meter.....	O. C. Pudan and L. B. Fulton.....	523,291	July 17	1932	485 486	68	394
Gas-meter.....	H. H. Sprague.....	517,368	Mar. 27	2741	644 645	66	2018
Gas-meter.....	F. C. Viney.....	521,745	June 19	1759	417	67	1550
Gas-meter. Coin-freed.....	J. Hawkyard.....	523,637	July 24	2528	634 635	68	518
Gas-meter. Diaphragm.....	J. B. Wallace.....	512,135	Jan. 2	673	161	66	129
Gas-meter. Dry.....	E. McGrady.....	524,859	Aug. 21	1526	373	68	970
Gas-meter. Prepayment.....	W. N. Milsted.....	526,251	Sept. 18	1615	378 379	68	1470
Gas-meters, &c. Register for.....	H. B. Goodwin.....	517,406	Mar. 27	2837	664	66	2036

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Gas. Method of and means for charging and combining fermented or unfermented liquids with carbonic acid	E. Adam and M. O. Rehfuß.....	523,501	July 24	2309	582	68	477
Gas-mixer.....	D. P. Stirk.....	514,631	Feb. 13	1098	273	66	1078
Gas-motor.....	K. A. Jakobson.....	514,996	Feb. 20	1678	{ 420 421	{ 66	1202
Gas-motor.....	M. Lorois.....	529,452	Nov. 20	1683	{ 402 403	{ 69	993
Gas motor. Ammoniacal.....	P. J. McMahon.....	525,859	Sept. 11	957	{ 214 215	{ 68	1337
Gas-motor engine. Reactionary.....	W. A. Shaw.....	523,734	July 31	2717	673	68	568
Gas-motor igniter.....	W. F. West.....	513,289	Jan. 23	2596	629	66	596
Gas or hydrocarbon motor.....	W. Seck.....	517,890	Apr. 10	772	{ 192 193	{ 67	163
Gas or other meter. Coin-controlled.....	S. Simpson.....	526,640	Sept. 25	2278	{ 545 546 547	{ 68	1609
Gas or petroleum motor.....	H. M. L. Cronan.....	515,116	Feb. 20	1868	469	66	1235
Gas-pressure gage.....	C. W. Hinman.....	513,786	Jan. 30	3426	845	66	778
Gas. Process of and apparatus for making.....	W. F. Browne.....	525,131	Aug. 28	2016	{ 492 493 494	{ 68	1074
Gas. Process of and apparatus for making.....	W. Heckert and W. P. Rowland.....	527,789	Oct. 23	1835	411	69	386
Gas. Process of and apparatus for the manufacture of.....	F. B. Johnson, W. P. Hall, W. Oakley, and C. F. Currey.....	520,401	May 22	2548	616	67	1055
Gas-producer.....	L. Bemelmans.....	515,569	Feb. 27	2627	653	66	1391
Gas-producer.....	E. J. Duff.....	517,271	Mar. 27	2578	604	66	1925
Gas-producing furnace.....	S. P. Hutchinson and S. L. Wiegand.....	514,994	Feb. 20	1675	420	66	1202
Gas-purifying apparatus.....	G. E. Gilhaus and J. A. Richter.....	525,072	Aug. 28	1917	469	68	1057
Gas-regulator.....	T. G. Lewis.....	519,845	May 15	1598	{ 390 391	{ 67	864
Gas-regulator for water-heaters.....	A. H. Schlüter.....	514,428	Feb. 6	744	189	66	994
Gas-retort.....	T. Heunessy.....	531,530	Dec. 25	2565	614	69	1731
Gas-retort charging apparatus.....	J. C. Chandler.....	522,705	July 10	903	{ 222 223	{ 68	189
Gas-retort lid.....	C. C. Walker.....	522,137	June 26	2465	592	67	1698
Gas. Rotary apparatus for generation of chlorine.....	J. W. Sutton.....	527,899	Oct. 23	2029	488	69	420
Gas-service pipes. Condenser and drip for.....	A. H. Gindele.....	520,675	May 29	3023	*711	67	1157
Gas under pressure. Vessel for containing.....	W. W. Pope.....	526,257	Sept. 18	1625	381	68	1472
Gas-wells. Method of and apparatus for removing water or oil from bottoms of.....	R. H. Staley.....	528,449	Oct. 30	3005	726	69	611
Gases. Apparatus for treating substances with.....	J. J. Melville.....	520,369	May 22	2505	606	67	1047
Gases. Closing receivers charged with compressed or liquefied.....	E. Stern.....	528,820	Nov. 6	543	130	69	745
Gases. Method of and apparatus for detecting and measuring inflammable.....	B. C. Tilghman, Jr.....	524,361	Aug. 14	689	168	68	893
Gases. Process of and apparatus for analyzing.....	E. A. Uehling.....	521,444	June 12	1235	292	67	1437
Gases. Process of and apparatus for analyzing.....	E. A. Uehling and A. Steinbart.....	522,746	July 10	1002	249	68	205
Gases. Process of and apparatus for destroying noxious.....	R. H. Doud.....	528,718	Nov. 6	339	82	69	708
Gaseous products in breweries. Method of and apparatus for the recovery of waste.....	O. Zwietsch.....	518,361	Apr. 17	1616	398	67	328
Gases. Recovering iodids, chlorids, or other salts from blast-furnace.....	P. Gredt.....	529,070	Nov. 13	991	236	60	846
Gases under pressure for obtaining motive power. Means for generating.....	A. Nobel.....	515,500	Feb. 27	2513	623	66	1369
Gases with liquids. Apparatus for mixing.....	C. and F. Bartelt.....	522,396	July 3	388	{ 99 100	{ 68	77
Gasket.....	T. Saunders.....	519,413	May 8	868	210	*67	718
Gasometer.....	W. Wood.....	517,254	Mar. 27	2554	{ 508 509	{ 66	1980
Gasometer. Coin-controlled.....	W. Alexander and W. E. Thompson.....	526,138	Sept. 18	1418	{ 330 331 332	{ 68	1434
Gate: See Automatic gate. Fly-gate. Bridge-gate. Folding gate. Car-gate. Railway gate. Car-platform gate. Railway-crossing gate. Car safety-gate. Railway-train gate. Elevator-gate. Safety-gate. Elevator safety-gate. Self-opening gate. Elevator-shaft gate. Sliding gate. End-gate. Sliding and swinging gate. Farm-gate. Swinging gate. Fence-gate. Turnstile-gate. Flood-gate. Water-gate.	C. C. Aikman.....	523,782	July 31	2794	694	68	582
Gate.....	M. Alston.....	514,611	Feb. 13	1066	266	66	1071
Gate.....	J. W. Bennett.....	512,598	Jan. 9	1439	347	66	283
Gate.....	R. O. S. Bosworth.....	525,184	Aug. 28	2120	516	68	1091
Gate.....	O. B. Colcord.....	515,073	Feb. 20	1803	455	66	1224
Gate.....	A. Cronkrite.....	517,331	Mar. 27	2676	628	66	2004
Gate.....	C. G. Deloye.....	516,348	Mar. 13	995	236	66	1655
Gate.....	J. F. Ferris and W. M. Thomas.....	523,202	July 17	1785	448	68	366
Gate.....	W. F. Gatewood.....	513,914	Jan. 30	3626	893	66	818
Gate.....	W. F. Gatewood.....	526,701	Oct. 2	54	14	69	13
Gate.....	F. S. Gray.....	521,880	June 26	1990	{ 480 431	{ 67	1610
Gate.....	J. L. Harris.....	526,312	Sept. 18	1720	406	68	1492
Gate.....	J. M. Heffner.....	528,876	Nov. 6	650	155	69	765
Gate.....	W. C. Hooker.....	515,430	Feb. 27	2415	598	66	1350
Gate.....	J. M. Hurst.....	527,693	Oct. 16	1674	403	69	339
Gate.....	J. E. Knapp.....	531,378	Dec. 25	2300	{ 548 549	{ 69	1680

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				Spec.	Dr. & Cr.	Vol.	Page.
Gate	A. W. Maclarren	528,174	Oct. 30	2527	{ 612 613	{ 69	526
Gate	J. Mason	518,743	Apr. 24	2277	565	57	459
Gate	O. C. Miller	514,375	Feb. 6	672	170	66	979
Gate	J. H. Morris	520,533	May 22	2772	670	67	1111
Gate	A. D. Neff	525,155	Aug. 28	2061	502	62	1082
Gate	E. Neuhauser	522,081	June 26	2366	569	67	1679
Gate	M. L. Rison	514,626	Feb. 13	1087	271	66	1076
Gate	A. J. Russell and J. A. Mattoon	517,070	Mar. 27	2250	532	66	1921
Gate	J. W. Shanbeck	531,223	Dec. 18	2020	481	69	1613
Gate	W. J. Slack	519,778	May 15	1491	361	67	844
Gate	J. W. Smith	531,344	Dec. 25	2237	534	69	1668
Gate	S. J. Smith	517,366	Mar. 27	2738	644	66	2017
Gate	S. J. Smith	529,086	Nov. 13	1021	246	69	851
Gate	F. H. Sturm	530,629	Dec. 11	987	242	69	1411
Gate	T. B. Taylor	525,297	Aug. 28	2286	556	68	1124
Gate	J. B. Van Nada	520,717	May 29	3090	748	67	1170
Gate	W. E. Wieland	513,355	Jan. 23	2695	654	66	608
Gate and registering mechanism	S. Brown	522,191	July 3	8	23	68	4
Gate-closing device	B. W. Eddy	516,802	Mar. 20	1768	417	66	1812
Gate-controlling apparatus. Head	M. D. Winder and D. A. Carpenter	514,399	Feb. 6	707	179	66	966
Gate or door	G. L. Florence	520,261	May 22	2323	564	67	1011
Gates automatically. Device for opening or closing farm- Gazette-holder	F. M. Tribbett	523,821	July 31	2868	712	68	597
E. Adam	517,420	Apr. 3	1	1	67	3	
Gear and governor. Reversing	T. T. Waggoner	529,931	Nov. 27	2579	{ 621 622	{ 69	1166
Gear. Bevel	G. B. Grant	519,572	May 8	1154	278	67	769
Gear-case	W. Biddles	531,254	Dec. 18	2073	496	69	1622
Gear-cutter	C. M. Conradson	527,410	Oct. 16	1206	{ 295 296	{ 69	252
Gear-cutter. Multiplex	U. and H. E. Eberhardt	515,906	Mar. 6	272	63, 64	66	1504
Gear-cutting machine	T. O. Perry	523,025	Oct. 23	2270	548	69	464
Gear. Driving	C. Hamann	527,552	Oct. 16	1442	351	69	296
Gear. Elastic	C. A. Lieb	520,791	June 5	53	12	67	1207
Gear-finishing machine	J. L. Kunz	520,995	June 5	436	104	67	1276
Gear for driving small machines	H. Bland	512,858	Jan. 16	1917	453	66	390
Gear-forging. Making dies for	A. T. Porter	521,179	June 12	760	178	67	1348
Gear. Machine	H. P. Bradford and J. A. Smith	528,653	Nov. 6	239	59	69	689
Gear. Reversing	G. W. King	520,647	May 29	2957	715	67	1146
Gear. Reversing	G. W. King	528,760	Nov. 6	456	112	69	729
Gear-teeth. Machine for generating beveled	G. B. Grant	512,169	Jan. 2	763	186	66	145
Gear. Variable speed	E. E. Wolf	535,479	Sept. 4	271	66, 67	68	1201
Gear-wheel and making same	C. E. Beck	515,137	Feb. 20	966	479	66	1243
Gear-wheel connection. Safety	H. K. King	531,046	Dec. 18	1690	401	69	1553
Gear-wheels. Die for the manufacture of crown	J. Thomson	520,194	May 22	2208	538	67	990
Gear-wheels. Process of and apparatus for making	A. T. Porter	521,178	June 12	757	{ 177 178	{ 67	1347
Gearing	J. M. Maret	528,641	Nov. 6	220	54, 55	69	686
Gearing. Adjustable	W. Schuur	526,750	Oct. 2	135	32	69	27
Gearing. Chain	H. Briggs	528,847	Nov. 6	598	142	69	755
Gearing. Electromagnetic variable-speed	W. V. Beaumont	519,031	May 1	151	36	67	565
Gearing for heavy machinery. Driving	O. C. Wolf	526,281	Sept. 18	1658	391	68	1479
Gearing for imparting differential motion in machinery	T. H. Rushton	526,413	Sept. 25	1929	439	68	1544
Gearing. Grain-drill	R. Galloway	529,375	Nov. 20	1531	366	69	966
Gearing. Multiple	W. H. Bright	521,133	June 5	676	159	67	1319
Gearing. Multiple	F. C. Robinson	531,220	Dec. 18	2013	477	69	1611
Gearing. Multiple	I. L. Unterbrink	512,460	Jan. 9	1232	298	66	244
Gearing. Reversing and controlling	G. E. Hoyt	520,313	May 22	2404	{ 584 585	{ 67	1027
Generator:							
See Current-generator. Steam-generator.							
Electric generator. Steam and gas generator.							
Fire-generator. Steam and hot-water generator.							
Gas-generator. erator.							
Motor-generator. Thermo-electric generator.							
Oxygen-generator. tor.							
Generator	W. J. Ranton	515,553	Feb. 27	2604	645	66	1386
Generators. Device for protecting separately-excited	B. G. Lamme	527,066	Oct. 9	641	155	69	135
Gill-box conductor or funnel	I. Best	512,793	Jan. 16	1793	{ 426 427	{ 66	366
Gin-saw-filing machine	R. S. Mudford	520,966	June 5	384	94	67	1267
Gin-saw-sharpening machine	J. A. Rogers and D. C. Burns	525,515	Sept. 4	324	81	68	1212
Glass and apparatus therefor. Manufacture of wire- Glass and decorating same. Decorated	J. H. Lubbers	527,754	Oct. 16	1770	{ 426 427	{ 69	356
Glass. Apparatus for manufacturing plate	A. Steffn	520,125	May 22	2069	67	67	966
Glass. Apparatus for producing flat objects of	E. P. King	517,460	Apr. 3	79	17	67	17
Glass. Apparatus for the manufacture of ornamental sheets or plates of	P. Sievert	528,340	Oct. 30	2649	{ 638 639	{ 69	548
Glass articles. Manufacture of hollow	J. W. Bonta	529,157	Nov. 13	1136	275	69	873
Glass batch. Apparatus for compounding and mixing	J. H. Croskey and J. Locke	528,081	Oct. 23	2367	{ 571 572	{ 69	482
Glass-blowing mold	R. Dralle	520,138	May 22	2111	515	67	972
Glass bottles. Apparatus for manufacturing	A. G. Neville	529,665	Nov. 20	2041	489	69	1057
Glass bottles, &c. Apparatus for molding and blowing	H. M. Ashley	517,016	Mar. 27	2141	{ 507 508	{ 66	1901
Glass brick and manufacture thereof	J. J. Power	522,671	July 10	847	210	68	180
Glass. Composition for manufacturing	L. Oettinger and M. Schreiber	523,152	July 17	1692	{ 423 424	{ 68	350
Glass. Composition for manufacturing	A. P. Ayling	522,001	June 26	2245	67	1656	

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Glass-crimping machine	W. J. Wilkinson	512,078	Jan. 2	526	139	66	112
Glass-cutter	W. J. Miller	515,298	Feb. 20	2183	541	66	1296
Glass-cutting-tool holder	L. W. Heysinger	526,444	Sept. 25	1984	473	68	1554
Glass. Decorating	A. Steffin	515,538	Feb. 27	2584	639	66	1382
Glass-decorating apparatus	F. E. Gnant	513,180	Jan. 23	2416	583	66	551
Glass door-plate	H. W. Greene	519,256	May 1	571	138	67	648
Glass. Embedding wire-netting in	F. Overn	516,220	Mar. 13	794	185	66	1617
Glass-finishing machine	A. J. Nellis	517,358	Mar. 27	2723	640	66	2014
Glass for skylights, &c	J. H. Croskey and J. Locke	524,936	Aug. 21	1655	405	68	992
Glass-furnace	M. R. Pepper	512,321	Jan. 9	976	239	66	197
Glass-furnace breast-wall	W. H. Barr	521,147	June 12	701	164	67	1337
Glass-heating oven	A. O. Hunley	526,528	Sept. 25	2108	{ 503 504	{ 68	1576
Glass-house pot or tank	W. H. Barr	528,710	Nov. 6	328	80	69	706
Glass. Leer or annealing-oven for sheet or plate	J. W. Bonta	529,316	Nov. 13	1316	{ 342 343	{ 69	925
Glass. Machine for embedding wire-netting in	F. Overn	516,221	Mar. 13	796	186	66	1617
Glass machine. Wire	F. M. Ryon	531,570	Dec. 25	2631	630	69	1745
Glass. Making rose-red	A. Spitzer	518,336	Apr. 17	1554	.....	67	316
Glass-melting furnace	A. M. Bacon	512,791	Jan. 16	1790	425	66	366
Glass-melting furnace	A. M. Bacon	512,792	Jan. 16	1792	426	66	366
Glass-melting furnace	E. H. Everett and A. Samuelson	521,537	June 5	1409	326	67	1484
Glass-melting furnace	M. Seiberling	520,835	June 5	149	33	67	1224
Glass-melting tank-oven	F. Wrede	517,675	Apr. 3	442	107	67	85
Glass-mold	P. M. Momper and O. Sigwart	527,801	Oct. 23	1853	445	60	389
Glass-molding machine	R. T. Beckett	529,694	Nov. 27	2091	501	69	1077
Glass paintings. Manufacture of	O. Dillmann	518,806	Apr. 24	2379	588	67	478
Glass panels. Manufacture of stained	H. C. Hughes	519,186	May 1	444	109	67	623
Glass-polishing machine	M. A. Oppermann	513,618	Jan. 30	3158	775	66	729
Glass-press	J. H. Croskey and J. Locke	528,080	Oct. 23	2565	571	69	481
Glass. Process of and apparatus for embedding wire-netting in	J. E. Parker	516,223	Mar. 13	800	186	66	1618
Glass. Producing flat objects of	P. Sievert	530,289	Dec. 4	379	93	69	1284
Glass receptacle	C. T. Green	528,631	Nov. 6	186	45	69	680
Glass-rolling apparatus	A. D. Brogan and A. M. Malloch	522,961	July 17	1358	337	68	289
Glass structure	E. W. Cunningham	524,937	Aug. 21	1656	405	68	992
Glass tablets. Apparatus for manufacturing embossed	J. W. Bonta	527,476	Oct. 16	1321	322	69	276
Glass-tank furnaces. Hood or muffler for	W. F. Modes	514,487	Feb. 13	853	218	66	1032
Glass-tube cutter. Hand	R. W. Fenwick	513,965	Jan. 30	3705	913	66	735
Glass with aluminium. Decorating	C. Margot	527,210	Oct. 9	867	.....	69	177
Glass-working apparatus	H. D. Burnett and S. E. Doane	520,767	June 5	10	3	67	1198
Glassware. Apparatus for cutting	J. Lobet	530,189	Dec. 4	198	49	69	1257
Glassware. Article of	A. Steffin	515,539	Feb. 27	2585	639	66	1383
Glassware. Hollow	H. Guinard	529,377	Nov. 20	1535	367	69	966
Glassware. Machine for finishing	W. H. Barr	530,820	Dec. 11	1301	314	69	1468
Glassware. Method of and apparatus for pressing	J. H. Croskey and J. Locke	530,825	Dec. 11	1309	316	69	1469
Glassware. Mold for the manufacture of	C. E. Blue	531,609	Dec. 25	2699	647	69	1758
Glassware-molding apparatus	C. Grebe	519,113	May 1	296	70	67	592
Glazier's tool	G. A. Rogers	529,957	Nov. 27	2534	611	69	1157
Globe. Geographical	I. and M. A. Hodgson	519,061	May 1	203	47	67	575
Globe. Geographical	I. and M. A. Hodgson	531,035	Dec. 18	1668	396	69	1549
Globe-holder	R. J. Ashworth	524,537	Aug. 14	983	241	68	858
Globes of electric lights or lamps. Guard for	J. C. Galster	524,168	Aug. 7	347	81	68	725
Glove	F. P. Merrill	527,704	Oct. 16	1690	407	69	342
Glove, &c	H. L. Northrop	519,198	May 1	462	113	67	627
Glove	H. M. Peyser	515,165	Feb. 20	1952	487	66	1252
Glove	R. Raymond	531,386	Dec. 25	2315	552	69	1683
Glove. Boxing	O. A. Burton	523,568	July 24	2413	604	68	497
Glove. Boxing	R. N. Carson and A. A. Martin	522,106	June 26	2410	579	67	1686
Glove. Catcher's	E. L. Rogers	528,343	Oct. 30	2820	681	69	578
Glove-fastener	G. E. Danforth	615,873	Mar. 6	223	52	66	1495
Glove-fastener	W. B. H. Dowse	522,293	July 3	206	56	68	42
Glove-fastener	F. F. Raymond, 2d	524,838	Aug. 21	1498	366	68	965
Glove or garment fastening	E. Ridgway, Jr.	523,547	July 24	2383	598	68	491
Glove or other fastenings. Device for attaching members of	W. S. Richardson, J. B. and P. B. Chase	530,657	Dec. 11	1044	{ 254 255	{ 69	1420
Glove-wrapper	T. A. Baril	526,340	Sept. 18	1763	418	68	1501
Gloves, shoes, &c. Fastener for	W. Q. Potts	513,727	Jan. 30	3347	826	66	763
Glue and gelatine from bones. Producing	M. Schroeder	518,861	Apr. 24	2455	609	67	492
Glue into sheets. Apparatus for forming	C. W. Cooper	521,945	June 26	2125	{ 509 510	{ 67	1636
Glue-making apparatus	C. W. Cooper	521,947	June 26	2134	{ 511 512	{ 67	1637
Glue-making apparatus	C. W. Cooper	521,948	June 26	2139	512	67	1638
Glue-pot. Steam-heated	F. N. Hastings	519,950	May 15	1766	432	67	895
Glue. Process of and apparatus for making	P. C. Hewitt	521,371	June 12	1105	260	67	1413
Glue. Purifying	P. C. Hewitt	522,831	July 10	1136	.....	68	230
Glycerin and salt from spent soap-lye. Recovering	E. K. Mitting	522,023	June 26	2276	.....	67	1662
Glycerin and salt from spent soap-lye. Recovering	E. K. Mitting	522,098	July 17	1419	.....	68	299
Glycerin from glycerin foots. Recovering	J. Van Ruymbeke	522,133	June 26	2452	.....	67	1695
Glycerin from spent soap-lye. Apparatus for recovering	J. Van Ruymbeke	522,135	June 26	2458	591	67	1696
Glycerin. Process of and apparatus for distilling	J. Van Ruymbeke	522,132	June 26	2449	590	67	1694
Gold and black sand. Apparatus for extracting	S. G. Dorr	510,245	May 1	554	135	67	644
Gold and mercury and making same. Solution of	I. Semenov	528,611	Nov. 6	.....	.....	69	674
Gold and silver from cyanide solutions. Apparatus for precipitating	C. Carter, A. H. Bell, and C. T. Boehm	513,174	Jan. 23	2407	581	66	552
Gold and silver from ores. Extracting	J. C. Montgomerie	524,602	Aug. 14	1082	.....	68	877
Gold and silver from their solutions in potassium cyanides. Abstracting	W. D. Johnston	522,260	July 3	150	.....	68	30
Gold and silver ores. Treating	M. V. Ortega	512,563	Jan. 9	1386	.....	66	274
Gold-extracting apparatus	J. B. Hannay	529,263	Nov. 13	1330	319	69	907
Gold from its chlorid solutions. Separating	J. W. Sutton	521,899	June 26	2036	67	1620

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Gold from its ore. Extracting.....	L. Pelatan and F. Clerici.....	528,023	Oct. 23	2266	547	69	463
Gold, &c., from their solutions. Precipitating.....	C. Moldenhauer.....	522,739	July 10	977	.....	68	201
Gold or silver bearing ores. Cyanid and chlorination process for treating.....	P. Argall.....	527,473	Oct. 16	1317	321	69	275
Gold or silver from ores. Apparatus for and process of extracting.....	P. Danckwardt.....	526,099	Sept. 18	1350	314	68	1422
Gold or silver from ores. Extracting.....	J. C. Montgomerie.....	524,601	Aug. 14	1081	.....	68	877
Gold or silver from ores. Process of and apparatus for extraction of.....	J. W. Sutton.....	521,898	June 26	2034	490 491	67	1619
Gold or silver ores. Treating.....	E. D. Kendall.....	524,690	Aug. 14	1231	.....	68	904
Gold-separator.....	M. Stewart.....	512,918	Jan. 16	2015	478	66	408
Gold separator and extractor.....	J. B. Betfeger and J. Schwartz.....	530,677	Dec. 11	1077	262	69	1425
Gold-washer.....	H. W. Murdock.....	519,566	May 8	1021	247	67	745
Gold washing and separating apparatus.....	J. B. Irvin.....	525,983	Sept. 11	1154	262 263	68	1374
Golf-stick.....	G. A. Ruenmiller.....	513,733	Jan. 30	3356	828	66	765
Gong.....	J. Redding.....	528,112	Oct. 23	2419	586	69	491
Gong. Electromechanical.....	M. Martin.....	516,500	Mar. 13	1267	302	66	1704
Gong. Electromechanical.....	N. H. Soren.....	513,251	Jan. 23	2540	611 612	66	578
Gopher-exterminator.....	G. Laube.....	514,555	Feb. 13	1466	363	66	1148
Gore enter and marker.....	E. E. Dailey.....	514,618	Feb. 13	1075	268 269	66	1073
Gore-cutting machine.....	A. G. Brewer.....	527,588	Oct. 16	1499	365	69	306
Gore-enting machine.....	J. N. Kendall.....	524,501	Aug. 14	921	227 228	68	847
Governor.....	G. J. Altham.....	519,785	May 15	1506	366 367	67	847
Governor.....	R. C. Carpenter.....	526,856	Oct. 2	307	75	69	58
Governor.....	A. D. Moore.....	530,704	Dec. 11	1118	271 272	69	1433
Governor.....	A. J. Pierce.....	519,412	May 8	867	209 210	67	718
Governor.....	F. M. Rites.....	527,720	Oct. 16	1712	412	69	246
Governor.....	W. H. Watson.....	514,294	Feb. 6	556	139	66	957
Governor and reversing-gear. Engine.....	H. H. Kelley.....	523,210	July 17	1796	451	68	368
Governor. Automatic.....	W. Cooke.....	519,322	May 8	703	173	67	687
Governor. Centrifugal.....	L. O'Hara.....	522,382	July 3	355	91	68	71
Governor. Centrifugal high-speed.....	F. W. Spacke.....	521,453	June 19	1318	307	67	1468
Governor. Centrifugal speed.....	C. R. McGahey.....	527,443	Oct. 16	1257	309	69	261
Governor. Cut-off.....	G. M. Hnll.....	512,111	Jan. 2	641	153	66	123
Governor. Electric.....	M. P. Schenck.....	522,920	July 10	1272	315	68	256
Governor. Electrical.....	W. H. Miller.....	520,267	May 22	2335	566 567	67	1014
Governor. Engine.....	H. Aspinall.....	516,041	Mar. 6	506	117 118	66	1546
Governor. Engine.....	C. E. R. Martin.....	528,276	Oct. 30	2710	654	69	559
Governor. Engine.....	I. F. Thompson.....	512,411	Jan. 9	1133	274 275	66	226
Governor. Fluid-pressure.....	L. L. Cutler.....	529,111	Nov. 13	1056	254	69	858
Governor for electric or other motors.....	N. S. Keith.....	517,866	Apr. 10	734	185	67	156
Governor for engines.....	A. H. Fisher.....	531,107	Dec. 18	1798	428	69	1572
Governor for fluids. Pressure.....	W. Hoffman.....	521,315	June 12	1000	235	67	1392
Governor for reversing-engines.....	C. Hammen.....	514,187	Feb. 6	349	84, 85	66	919
Governor. Marine-engine.....	J. W. Winters.....	517,087	Mar. 27	2278	537	66	1927
Governor motor. Engine.....	C. E. R. Martin.....	528,274	Oct. 30	2705	652 653	69	558
Governor. Speed.....	W. H. von Meugerioghsen.....	514,602	Feb. 13	1053	263 264	66	1069
Governor. Steam-engine.....	J. P. Devoissaud.....	519,942	May 15	1751	430	67	893
Governor. Steam-engine.....	S. P. Lathrop.....	515,964	Mar. 6	365	26, 87	66	1521
Governor. Steam-engine.....	L. A. Le Mienx.....	530,538	Dec. 11	832	205 206	69	1384
Governor. Steam-engine.....	H. C. Nichols.....	527,503	Oct. 16	1360	331 332	69	282
Governor. Steam-engine.....	W. G. Shepherd.....	529,507	Nov. 20	1785	425	69	1009
Governor. Steam-engine.....	H. G. Smith.....	530,970	Dec. 18	1558	369	69	1522
Governor. Steam-engine.....	D. Symington.....	518,728	Apr. 24	2246	559	67	454
Governors. Speed-recorder of motive-power-engine.....	E. Lachmann.....	526,321	Sept. 18	1737	410	68	1496
Grader and amalgamator.....	J. A. Armbruster.....	517,721	Apr. 3	516	125	67	100
Grader attachment. Road.....	W. E. Sullivan.....	523,134	July 17	1665	417	68	346
Grading and ditching machine.....	W. H. Tidland.....	518,905	Apr. 24	2339	628	67	509
Grading railways, &c. Machine for.....	C. W. Arch.....	517,559	Apr. 3	236	55	67	46
Grading streets or road-beds. Means for.....	J. J. McMahon.....	524,028	Aug. 7	100	21	68	680
Grain, &c. Apparatus for cleaning.....	H. Jones.....	522,421	July 3	423	108	68	84
Grain-bagger.....	G. Anderson.....	513,700	Jan. 30	3301	813	66	755
Grain-binder.....	P. P. Coler.....	513,671	Jan. 30	3248	797 798	66	745
Grain-binder.....	H. F. Crandall.....	524,312	Aug. 14	588	141 142	68	787
Grain-binder.....	E. E. Davis.....	529,248	Nov. 13	1300	313	69	901
Grain-binder.....	J. S. Davis.....	530,886	Dec. 11	1407	335	69	1456
Grain-binder.....	G. G. Hunt.....	527,497	Oct. 16	1347	328 329	69	250
Grain-binder.....	D. McPherson.....	521,508	June 19	1361	317	67	1477
Grain-binder.....	A. Stark.....	520,458	May 29	2646	639 640	67	1029
Grain-binder.....	B. F. Stewart.....	518,747	Apr. 24	2221	566 567	67	460
Grain-binder cord-holder.....	W. Coppage.....	515,113	Feb. 20	1863	467	66	1234
Grain-binder knotter.....	B. F. Stewart.....	512,762	Jan. 16	1747	414 415	66	357
Grain-binder knotter.....	W. N. Whiteley and W. Bayley.....	525,672	Sept. 4	588	140 141	68	1259

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Grain-binder knotter mechanism.....	M. F. Fairbank and J. R. Meach.....	530,495	Dec. 4	743	{ 182 183	69	1350
Grain-binder tension device.....	J. Whitecomb and A. Wotring.....	520,624	May 29	2919	706	67	1139
Grain-binding machine.....	C. A. Postley.....	514,029	Feb. 6	84	21, 22	66	870
Grain-cleaner.....	C. J. Moher.....	520,653	May 29	2964	717	67	1147
Grain-cleaner.....	J. G. Plowman and H. E. Kittell.....	530,333	May 22	2444	593	67	1035
Grain-cleaner.....	J. C. Ross, Jr.....	514,498	Feb. 13	876	223	66	1036
Grain-cleaner, fanning-mill, and elevator. Combined.	J. F. Hattfield.....	526,623	Sept. 25	2254	539	68	1604
Grain-conveyer.....	F. E. Duckham.....	524,418	Oct. 30	2949	714	69	601
Grain-conveyer. Pneumatic.....	F. E. Duckham.....	522,458	July 3	492	{ 124 125	68	98
Grain-conveyer. Pneumatic.....	F. E. Duckham.....	523,419	Oct. 30	2950	714	69	602
Grain-conveyers. Delivery apparatus for pneumatic.....	F. E. Duckham.....	522,457	July 3	490	124	68	97
Grain-drier.....	J. Gregory.....	516,704	Mar. 20	1615	385	66	1786
Grain-drier.....	I. G. Hooper.....	522,985	July 17	1395	{ 343 349	68	295
Grain-drill.....	A. Carpenter.....	520,843	June 5	162	36	67	1227
Grain-drill.....	S. J. Conkwright.....	527,364	Oct. 9	1128	{ 275 276	69	224
Grain-drill.....	R. Galloway.....	530,585	Dec. 11	917	225	69	1399
Grain-drill.....	A. Schopp and J. Liese.....	513,060	Jan. 16	2231	{ 536 537	66	448
Grain-drill.....	H. L. Whitman.....	514,798	Feb. 13	1373	345	66	1130
Grain-drill cleaning attachment.....	E. J. Kemper.....	523,212	July 17	1800	452	68	369
Grain-drill heads. Changing-gear for.....	T. A. Hill.....	529,266	Nov. 13	1336	320	69	908
Grain-drill press-wheel.....	A. J. Green.....	518,669	Apr. 24	2136	534	67	435
Grain-dump.....	J. S. Seeley and C. R. De La Matyr.....	513,205	Jan. 23	2451	502	68	560
Grain-elevator.....	A. J. Hendricks and S. Forsythe.....	530,267	Dec. 4	336	82	69	1277
Grain-elevator.....	F. Kaucher.....	528,230	Oct. 30	2630	{ 634 635	69	544
Grain-elevator.....	V. Weber and J. R. Harrison.....	518,084	Apr. 10	1108	{ 280 281	67	218
Grain-elevators. Automatic shut-off for.....	G. W. Nye.....	518,622	Apr. 24	2045	509	67	419
Grain-heading machine.....	F. W. Nessley.....	515,871	Mar. 6	220	51, 52	66	1494
Grain heater or steamer.....	J. P. McCallister.....	527,442	Oct. 16	1256	309	69	261
Grain-meter.....	G. Anderson.....	513,699	Jan. 30	3299	{ 812 813	66	754
Grain-meter.....	J. W. Coker.....	519,176	May 1	426	105	67	620
Grain-meter.....	H. P. Dennis.....	520,518	May 29	2746	665	67	1106
Grain-meter.....	F. F. Kanne.....	525,764	Sept. 11	767	178	68	1304
Grain-meter.....	F. F. Kanne.....	525,765	Sept. 11	771	{ 178 179	68	1305
Grain-meter.....	C. L. Wylie.....	521,904	June 26	2043	492	67	1621
Grain-meter. Oscillating.....	D. Wilde.....	516,143	Mar. 6	655	152	66	1575
Grain-meter. Rotating.....	J. M. Finch.....	517,608	Apr. 3	311	73	67	61
Grain-meter. Rotating.....	E. K. Hayes.....	517,650	Apr. 3	391	94	67	75
Grain. Pneumatic apparatus for conveying.....	F. E. Duckham.....	530,829	Dec. 11	1314	316	69	1470
Grain-sconring machine.....	R. W. Welch.....	528,405	Oct. 30	2931	{ 708 709	69	598
Grain sconring or polishing machine.....	G. W. Mead.....	522,996	July 17	1414	{ 353 354	68	293
Grain-separator.....	H. Bailey and W. L. Gilson.....	525,067	Aug. 28	1908	467	68	1056
Grain-separator.....	W. W. Briggs.....	526,610	Sept. 25	2238	534	69	1600
Grain-separator.....	J. H. Creter.....	520,729	May 29	3106	752	67	1173
Grain-separator.....	C. D. Hoselton.....	529,911	Nov. 27	2452	{ 590 591	69	1143
Grain-separator.....	P. R. Lanier.....	530,280	Dec. 4	364	89, 90	69	1282
Grain-separator.....	W. Reid.....	526,200	Sept. 18	1535	{ 359 360	68	1455
Grain-separator machine.....	W. H. Webb.....	515,542	Feb. 27	2587	440	66	1383
Grain-sheeking machine.....	R. Connell.....	517,095	Mar. 27	2292	{ 540 541	66	1929
Grain-shovel.....	J. Cliff.....	515,112	Feb. 20	1861	467	66	1234
Grain-shoveling machine.....	J. H. Heatherington.....	516,721	Mar. 20	1641	390	66	1790
Grain-spout swivel support.....	D. A. Robinson.....	512,394	Jan. 9	1103	267	66	220
Grain-storage building. Metallic.....	E. O. Fallis.....	521,951	June 26	2142	513	67	1639
Grain-tempering machine.....	G. T. Thompson.....	528,043	Oct. 23	2299	554	69	469
Grain washer, Barley or other.....	J. A. Saladin.....	515,618	Feb. 27	2706	673	66	1408
Granite and veneering stone. Manufacture of artificial.....	E. Chatain and S. Giletti.....	512,431	Jan. 9	1174	225	66	234
Granular material from receptacles. Apparatus for removing measured quantities of.....	P. Jochum.....	513,932	Jan. 30	3649	900	66	823
Granulating-mill.....	T. A. Weber.....	524,748	Aug. 21	1338	327	68	936
Graphophone.....	T. H. Macdonald.....	527,735	Oct. 16	1773	427	69	357
Grapple.....	D. E. Lyon.....	521,913	June 26	2063	495	67	1624
Grass-hook.....	W. Sellers.....	529,685	Nov. 20	2071	496	69	1063
Grate.....	L. R. Andrews.....	526,957	Oct. 2	470	{ 116 117	69	89
Grate.....	J. L. Baker.....	512,353	Jan. 9	1028	251	66	206
Grate.....	E. Boileau.....	525,805	Sept. 11	1243	191	68	1318
Grate.....	C. Brandt.....	522,190	July 3	6	2	68	3
Grate.....	A. Bryce.....	529,242	Nov. 13	1288	309	69	899
Grate.....	T. Craney.....	518,714	Apr. 24	2224	534	67	450
Grate.....	H. R. Luther.....	529,503	Nov. 20	1779	424	69	1008
Grate.....	H. R. Luther.....	529,504	Nov. 20	1780	424	69	1008
Grate.....	E. U. Scoville.....	525,163	Aug. 28	2002	507	68	1085
Grate.....	J. W. Smith.....	518,470	Apr. 17	1602	446	67	362
Grate. Automatic water-circulating fire.....	E. D. Ferris and G. M. Wheeler.....	517,567	Apr. 3	248	58	67	49
Grate-bar.....	F. P. Fuller.....	516,888	Mar. 20	1912	452	66	1842
Grate-bar.....	C. H. Gadey.....	513,565	Jan. 30	3073	736	66	714
Grate-bar.....	F. W. Schnautz.....	524,866	Aug. 21	1537	375	68	972
Grate-bar.....	J. M. Sinclair.....	514,136	Feb. 6	248	60	66	901
Grate-bar.....	F. J. St. John.....	515,847	Mar. 6	188	45	66	1488

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Grate-bar	C. Turnofsky	513,373	Jan. 23	2725	661	66	614
Grate. Combined dumping and shaking	E. Fales	526,074	Sept. 18	1309	{ 303 304 }	68	1414
Grate. Dumping	E. Fales	529,066	Nov. 13	983	234	69	845
Grate. Fire	W. H. Drake and J. C. Green	527,778	Oct. 23	1813	437	69	382
Grate. Gas	G. Keller	526,973	Oct. 2	497	122	69	93
Grate heater. Portable open	J. Lawlor	526,629	Sept. 25	2263	542	68	1606
Grate. Open fireplace	W. L. McDowell	514,269	Feb. 6	506	125	66	948
Grate. Shaking and dumping	W. Fitzgerald	518,779	Apr. 24	2330	578	67	470
Grate. Traveling	E. B. Coxie	515,656	Feb. 27	2762	688	66	1419
Grate. Traveling	E. B. Coxie	515,657	Feb. 27	2766	689	66	1419
Grate. Water-heating fire	J. H. Phillips	528,388	Oct. 30	2898	702	69	592
Grater	J. G. Baker	524,189	Aug. 7	376	89	68	730
Grater for culinary purposes	J. Davidson	528,416	Oct. 30	2947	713	69	601
Grater. Nutmeg	W. A. Dunlap	527,837	Oct. 23	1907	459	69	398
Grater. Nutmeg	G. V. Shaw	518,704	Apr. 21	2197	548	67	446
Grave or lot markers. Machine for making	M. B and F. J. Mishler	520,652	May 29	2963	717	67	1147
Grave-signal	H. Deveau	522,110	June 26	2415	580	67	1687
Grave-stone or monument	O. W. Smith	512,552	Apr. 17	1929	477	67	384
Gravity-battery	L. F. Lary	516,653	Mar. 20	1534	365	66	1771
Grease-trap	J. Barrett	527,580	Oct. 16	1488	362	69	305
Grease-trap	E. H. Donaboe	524,498	Aug. 14	917	226	68	846
Grease-trap	M. J. Gibbons	530,684	Dec. 11	1087	264	69	1427
Grease-trap	I. Heffron	519,501	May 8	1014	245	67	744
Greenhouse	H. E. Hall	519,766	May 15	1470	356	67	840
Griddle-greaser holder	M. Blair	515,277	Feb. 20	2138	531	66	1287
Gridiron or broiler	H. A. and M. Benedict	514,435	Feb. 13	757	194	66	1014
Grill-wires. Machine for twisting and punching	L. Kirchenbauer	527,428	Oct. 16	1233	303	69	257
Grille	R. T. Bertelsen	517,207	Mar. 27	2478	583	66	1966
Grille	B. E. J. Eils	529,719	Nov. 27	2132	510	69	1084
Grille-work. Ornamental	F. M. Carr	519,663	May 8	1305	312	67	796
Grinder. Cutlery	P. A. Otis	515,092	Feb. 20	1827	461	66	1229
Grinder. Cutlery	P. A. Otis	515,093	Feb. 20	1829	{ 461 462 }	66	1229
Grinder. Feed	T. Cascaden, Jr.	525,976	Sept. 11	1143	260	68	1372
Grinder. Knife or sickle	H. C. Deane	524,963	Aug. 21	1690	414	68	999
Grinder. Sickle	T. Gordon	512,546	Jan. 9	1359	329	66	268
Grinder. Sickle	F. M. Ogle and C. G. Fields	512,740	Jan. 16	1669	{ 400 401 }	66	343
Grinder. Tool	I. H. Gilman	512,545	Jan. 9	1358	328	66	268
Grinding and polishing machine	E. A. Delane and F. A. Hardy	512,012	Jan. 2	472	113	66	91
Grinding and polishing machine	M. H. Reynolds	529,048	Nov. 13	953	226	69	839
Grinding and polishing machine	C. F. Roper	516,168	Mar. 6	697	164	66	1583
Grinding and polishing machinery	E. Ford	521,953	June 26	2146	{ 514 515 }	67	1640
Grinding and polishing material	W. L. Kann	511,779	Jan. 2	58		66	14
Grinding and polishing wheel	F. E. Cudell	527,196	Oct. 9	844	205	69	172
Grinding and pulverizing cylinder	R. F. Abbé	529,096	Nov. 13	1037	250	69	854
Grinding device for rotary cutters	J. Miller	531,547	Dec. 25	2594	621	69	1737
Grinding lawn-mower knives. Device for	W. J. Walker	526,824	Oct. 2	252	62	69	48
Grinding-machine	H. B. Bearisto and H. S. Beckwith	525,939	Sept. 11	1075	244	68	1358
Grinding-machine	E. B. Benham and H. E. Barlow	520,665	May 29	2967	722	67	1151
Grinding-machine	D. H. Church	517,643	Apr. 3	375	89, 90	67	73
Grinding-machine	T. B. Dooley	522,155	June 26	2497	599	67	1704
Grinding-machine	R. Dutton	521,646	June 19	1594	373	67	1518
Grinding-machine	R. H. Grant	520,019	May 15	1879	{ 459 460 94 }	67	915
Grinding-machine	C. H. Trask	530,292	Dec. 4	384	{ 95 96 }	69	1285
Grinding machine. Drill	J. J. Kenyon	523,897	July 31	3001	747	68	622
Grinding-machine work-holder	W. Liden	515,595	Feb. 27	2668	663	66	1400
Grinding mechanism	W. H. Hill	527,748	Oct. 16	1760	424	69	354
Grinding-mill	H. S. Atkins	520,027	May 22	1901	464	67	935
Grinding-mill	J. T. Capers	514,642	Feb. 13	1114	278	66	1081
Grinding-mill	W. N. Hartshorn	526,313	Sept. 18	1721	407	68	1492
Grinding-mill	H. B. Hebert	530,945	Dec. 18	1513	{ 358 359 }	69	1521
Grinding-mill	C. C. Howe	527,986	Oct. 23	2206	531	69	452
Grinding-mill	S. Schwarzenberger	526,203	Sept. 18	1539	361	68	1456
Grinding-mill	J. J. Seeman	525,473	Sept. 4	264	64	68	1200
Grinding-mill	A. W. Straub	512,246	Jan. 16	1882	445	66	383
Grinding-mill	T. L. and T. J. Sturtevant	522,698	July 10	891	220	68	187
Grinding-mill	T. L. and T. J. Sturtevant	529,761	Nov. 27	2200	524	69	1095
Grinding-mill	J. W. Vaughan	515,181	Feb. 20	1975	493	66	1256
Grinding-mill. Roller	W. Hudnall and L. D. Beary	518,955	May 1	30	8	67	542
Grinding or facing machine	L. L. Lamb	526,238	Sept. 18	1591	{ 373 374 }	68	1466
Grinding spherical or other curved surfaces. Machine for	R. Conrader	513,632	Jan. 30	3181	781	66	733
Grinding spherical or other surfaces. Machine for	R. Conrader	513,631	Jan. 30	3179	780	66	732
Grinding twist-drills. Device for	E. G. Hoffmann	521,615	June 19	1444	361	67	1508
Grinding-wheel	F. W. Beckert	524,572	Aug. 14	1041	237	68	869
Grinding-wheel water-box	F. M. King	516,353	Mar. 13	1002	238	66	1657
Grip-block	G. S. Fouts	523,273	July 17	1905	490	68	389
Grip mechanism. Friction	E. Stancliff	514,571	Feb. 13	991	250	66	1058
Grip-opener. Automatic	W. P. Courtney	515,115	Feb. 20	1866	468	66	1235
Grip-slot closer	F. W. Gremmels	523,636	July 24	2526	634	68	518
Grip-testing machine	T. E. J. and W. Schaibly	514,281	Feb. 6	525	{ 129 130 }	66	952
Grip-wheel	A. J. B. Berger	530,383	Dec. 4	545	135	69	1315
Gripping device	C. W. Nasen	521,963	June 26	2166	520	67	1642
Grooves. Method of and implement for forming	J. G. Wilson	531,243	Dec. 18	2055	{ 490 491 }	69	1618

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Grooving-machine.....	H. W. Morgan.....	517,705	Apr. 3	486	{ 116 117 118	67	93
Grooving-tool.....	W. C. Bloomer.....	525,482	Sept. 4	275	67, 68	68	1203
Guard: See Bicycle mud-guard. Keyhole-guard. Bicycle-seat guard. Lathe-guard. Car life-guard. Loom-shuttle guard. Car safety-guard. Mustache-guard. Car wheel-guard. Pin-guard. Cattle-guard. Placket-guard. Chimney-guard. Railway cattle-guard. Dental-tool guard. Snow-guard. Elevator-guard. Vehicle mud-guard. Insect-guard.							
Guide and compass. Pocket.....	F. S. Hillhouse.....	512,882	Jan. 16	1958	464	66	398
Guide and fish-plate. Combined.....	H. W. Cramer.....	517,330	Mar. 27	2675	628	66	2004
Guitar.....	P. A. Anderberg.....	516,717	Mar. 20	1636	389	66	1789
Guitar.....	L. F. Malkemus.....	523,079	July 17	1544	387	68	323
Gully catch-pit and trap.....	J. Phillips.....	522,351	July 3	301	77, 78	68	60
Gum and making same.....	J. Hanson, P. C. D. Castle, and J. H. Morrison.....	531,377	Dec. 25	2298	.....	69	1680
Gun-barrel.....	H. A. Kingsland and W. P. Sanger.....	513,398	Jan. 23	2765	674	66	621
Gun-barrel-cleaning implement.....	C. M. Stafford.....	514,514	Feb. 13	899	229	66	1040
Gun-barrel pistol attachment.....	M. W. Fairbanks.....	511,940	Jan. 2	361	84	66	68
Gun-barrels. Device for attaching magazines to.....	L. L. Fairburn.....	525,739	Sept. 11	730	168	68	1287
Gun-barrels to stocks. Detachably securing.....	J. M. Marlin.....	529,455	Nov. 20	1694	405	69	994
Gun-barrels to stocks. Securing.....	W. C. Davenport.....	512,434	Jan. 9	1179	286	66	235
Gun. Bolt.....	J. P. Lee.....	513,647	Jan. 30	3204	{ 785 786 787 788 789	66	737
Gun. Bolt.....	H. Leineweber.....	527,369	Oct. 9	1137	277	69	226
Gun. Bomb.....	F. W. Luscomb.....	523,289	July 17	1929	485	68	393
Gun. Boomerang.....	P. Vogel and W. M. Schrock.....	515,309	Feb. 20	2199	545	66	1299
Gun. Breakdown.....	A. Balensiefer.....	530,467	Dec. 4	673	167	69	1338
Gun. Breakdown.....	M. S. Barker.....	530,381	Dec. 4	540	134	69	1313
Gun. Breakdown.....	R. C. Fay.....	528,506	Oct. 30	3103	753	69	630
Gun. Breakdown.....	F. A. Hollenbeck.....	523,527	July 24	2357	592	68	466
Gun. Breakdown.....	J. Tonks.....	514,574	Feb. 13	996	251	66	1058
Gun. Breech-loading.....	J. M. Browning.....	513,301	Jan. 23	2615	633	66	594
Gun. Breech-loading.....	I. N. P. Stokes.....	521,831	June 26	1916	459	67	1595
Gun. Breech-loading breakdown.....	A. H. Fox.....	522,464	July 3	500	127	68	99
Gun. Cane.....	R. F. Cook.....	517,438	Apr. 3	27	6	67	8
Gun. Cane.....	O. Janke.....	518,546	Apr. 17	1921	475	67	382
Gun-carriage.....	K. Haussner.....	513,263	Jan. 23	2564	618	66	523
Gun-carriage. Disappearing.....	A. Cuthbert.....	525,489	Sept. 4	284	71	68	1204
Gun-carriage. Disappearing.....	W. B. Gordon.....	523,570	July 24	2416	{ 605 606 429 430 431	68	497
Gun carriage. Pneumatic.....	J. Rapiéff.....	515,018	Feb. 20	1711	430	66	1208
Gun-carriage recoil-press.....	A. Noble and R. T. Brankston.....	524,605	Aug. 14	1086	268	68	878
Gun carriages. Anchor for field.....	A. Noble and R. T. Brankston.....	517,476	Apr. 3	103	23	67	22
Gun-carriages. Recoil-check for wheeled.....	F. Mohr.....	512,120	Jan. 2	652	156	66	125
Gun. Compressed-pulp.....	W. B. Benson.....	514,407	Feb. 6	718	182	66	929
Gun-embasure joint.....	C. Martin.....	518,155	Apr. 10	1225	307	67	239
Gun feed mechanism. Magazine.....	F. Mannlicher.....	518,621	Apr. 24	2402	{ 594 595 187 188	67	482
Gun. Folding.....	A. Burgess.....	521,202	June 12	799	188	67	1355
Gun. Folding magazine.....	A. Burgess.....	524,800	Aug. 21	1422	348	68	952
Gun fore-end fastening.....	F. A. Hollenbeck.....	522,594	July 10	718	184	68	156
Gun-frame.....	R. C. Fay.....	528,507	Oct. 30	3105	753	69	630
Gun. Gas-operated.....	W. Mason.....	525,151	Aug. 28	2055	501	68	1081
Gun. Igniting spring.....	C. F. Wiebach and A. A. Koellhoffer.....	527,916	Oct. 23	2060	494	69	426
Gun lock. Breakdown.....	J. Conner.....	517,032	Mar. 27	2171	514	66	1906
Gun. Machine.....	F. Ebeling.....	531,168	Dec. 18	1917	{ 456 457	69	1594
Gun. Machine.....	F. M. Garland.....	513,995	Feb. 6	37	8	66	861
Gun. Magazine.....	L. L. Hepburn.....	528,905	Nov. 6	712	168	69	776
Gun. Magazine.....	J. M. Browning.....	524,702	Aug. 21	1258	310	68	922
Gun. Magazine.....	A. Lee.....	522,605	July 10	737	187	68	160
Gun. Magazine.....	M. C. Lisle.....	529,037	Nov. 13	929	{ 220 221 437 438	69	835
Gun. Magazine.....	W. H. O-trander.....	531,132	Dec. 18	1845	438	69	1582
Gun. Magazine bolt.....	U. Marga.....	515,348	Feb. 27	2276	564	66	1325
Gun. Magazine cane.....	E. E. Dyball.....	522,886	July 10	1200	{ 299 300 456 457	68	243
Gun mount. Quick-firing.....	A. Noble and R. T. Brankston.....	526,407	Sept. 25	1921	457	68	1542
Gun-mounting.....	D. Adamson.....	519,965	May 15	1789	439	67	900
Gun-mounting.....	J. B. G. A. Canet.....	513,706	Jan. 30	3310	{ 815 816	66	757
Gun or catapult. Spring.....	W. B. Morris.....	513,590	Jan. 30	3109	764	66	720
Gun. Rawhide-wound.....	F. Latulip.....	521,911	June 26	2060	495	67	1624
Gun. Recoil-operated.....	W. Griffiths and H. F. Woodgate.....	512,437	Jan. 9	1183	{ 287 288	66	236
Gun. Recoil-operated magazine.....	A. Burgess.....	520,753	May 29	3146	762	67	1180
Gun. Self-acting breech-loading.....	A. G. Dougherty.....	529,521	Nov. 20	1816	432	69	1015
Gun-sight.....	C. Bechis.....	517,514	Apr. 3	160	36	67	33

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Gun-sight.....	H. Strandwold.....	526,588	Sept. 25	2197	525	68	1592
Gun-sight. Illuminated.....	E. von Skoda.....	529,424	Nov. 20	1927	387	69	982
Gun. Water-power machine.....	P. B. Tyler.....	523,185	July 17	1757	441	68	362
Guns. Apparatus for supplying cartridges to machine.....	J. A. Norton and W. Richards.....	527,342	Oct. 9	1083	263 264	69	216
Guns. Automatic shell-ejector for breakdown.....	M. A. Keller.....	513,511	Jan. 30	2968	730	66	694
Guns. Automatically-operated breech mechanism for.....	J. B. G. A. Canet.....	521,400	June 12	1148	272 273	67	1421
Guns. Cartridge-stop for magazine.....	G. T. Thornhill.....	526,272	Sept. 18	1645	387	68	1477
Guns. Cocking mechanism for breakdown.....	F. A. Hollenbeck.....	519,126	May 1	331	78	67	601
Guns. Ejecting and cocking mechanism for breakdown.....	G. A. Horne.....	523,228	Oct. 30	2626	634	69	543
Guns. Ejector for breakdown.....	W. H. Davenport.....	514,674	Feb. 13	1171	291 292	66	1091
Guns. Ejector for breakdown.....	R. C. Fay and G. E. Humphreys.....	528,508	Oct. 30	3106	753 754	69	631
Guns. Ejector for breakdown.....	G. A. Sachs.....	523,130	July 17	1659	416	68	345
Guns. Ejector mechanism for breakdown.....	A. T. Brown.....	513,480	Jan. 30	2914	717 718	66	684
Guns. Lever-action for breakdown.....	G. W. Cilley.....	514,414	Feb. 6	726	184 185	66	990
Guns. Movable cocking-shoulder for breakdown.....	F. A. Hollenbeck.....	523,813	July 31	2853	709	68	594
Guns. Safety breech-lock for.....	J. B. G. A. Canet.....	519,661	May 8	1302	311	67	795
Guns. Shell-ejector for breakdown.....	W. C. Davenport.....	526,690	Oct. 2	33	9	69	9
Guns. Shifting mechanism for cocking-arms of breakdown.....	F. A. Hollenbeck.....	520,959	June 5	375	92	67	1266
Guns. Shifting means for cocking-arms of breakdown.....	F. A. Hollenbeck.....	524,144	Aug. 7	305	72	68	718
Guns. Trigger for double-barreled.....	W. Fleming.....	521,021	June 5	476	114	67	1282
Guns. Trigger mechanism for.....	E. D. Granger. (Reissue).....	11,458	Dec. 11	1460	346	69	1496
Gutta-percha or rubber compound.....	R. Hutchison.....	518,817	Apr. 24	2398		67	481
Gutter-forming machine.....	K. A. Juergens.....	530,275	Dec. 4	348	86, 87	69	1379
Gutter leader and strainer.....	W. H. Hawkins.....	524,668	Aug. 14	1198	293	68	898
Gutter. Roof.....	P. Hoenk.....	522,833	July 10	1139	282	68	231
Gymnastic appliance for school-desks.....	T. Bessing.....	517,788	Apr. 3	625	156	67	121
Gyrating crusher.....	C. L. Carman, E. E. Hanna, and P. W. Gates.....	525,443	Sept. 4	214	53	68	1190
Gyrating crusher.....	A. J. Gates.....	525,413	Sept. 4	167	43	68	1181
Gyrating crusher.....	P. W. Gates.....	525,408	Sept. 4	159	40, 41	68	1180
Gyrating screens, &c. Sealing, lubricating, and bearing support for.....	P. W. Gates.....	525,411	Sept. 4	164	42	68	1181
Hair-brushing machine. Rotary.....	I. M. Tintoré.....	528,044	Oct. 23	2300	554 555	69	470
Hair-crimping iron.....	R. Nicol, Jr.....	520,859	June 5	193	42	67	1232
Hair-curler.....	E. Dencher.....	515,998	Mar. 6	430	99	66	1532
Hair-curler.....	J. W. Lennard.....	519,189	May 1	447	109	67	623
Hair-curler.....	S. K. Mathews.....	517,350	Mar. 27	2710	636	66	2011
Hair-curler.....	T. C. Moore.....	530,787	Dec. 11	1256	303	69	1459
Hair from the skin. Composition for removing.....	J. Mellinger.....	520,005	May 15	1859		67	912
Hair-pin.....	T. Caldwell.....	515,745	Mar. 6	19	5	66	1458
Hair-pin.....	L. Onsey.....	523,904	July 31	3012	749	68	623
Hair structure.....	H. Kinzy.....	513,579	Jan. 30	3096	761	66	718
Hair-trimming shears.....	T. M. Underwood.....	512,767	Jan. 16	1757	417	66	359
Halter.....	T. B. Burnett.....	521,457	June 19	1272	296	67	1460
Halter.....	H. Casey.....	523,760	Nov. 6	419	101	69	722
Halter.....	H. L. and C. M. Green.....	512,290	Jan. 9	929	226	66	188
Halter.....	C. G. Sheriff.....	520,381	May 22	2521	610	67	1050
Halter.....	H. Wagner.....	514,523	Feb. 13	915	232	66	1043
Halter.....	E. P. Waters.....	523,593	Sept. 25	2203	527	68	1594
Halter. Rope.....	T. Doble.....	522,408	July 3	405	103	68	80
Halter square or corner-clasp.....	T. N. Martin.....	524,067	Aug. 7	165	38	68	692
Hame.....	T. C. Brookens and L. Bohringer.....	524,919	Nov. 13	746	175	69	803
Hame.....	J. Hunter and J. Blankley.....	514,368	Feb. 6	663	168	66	978
Hame.....	J. J. McCarthy.....	520,071	May 22	1978	484	67	948
Hame.....	J. A. Meany and C. H. Schnitzler.....	530,785	Dec. 11	1254	303	69	1459
Hame.....	C. F. Mock.....	531,324	Dec. 25	2202	527	69	1662
Hame and cockeye.....	J. B. Palmiter.....	514,727	Feb. 13	1264	315	66	1109
Hame attachment.....	J. A. Spain.....	522,436	July 3	460	116	68	91
Hame-coupling.....	A. T. Doerr.....	529,647	Nov. 20	2010	481	69	1052
Hame-coupling.....	A. F. Pine.....	514,129	Feb. 6	240	58	66	899
Hame-fastener.....	B. O. Smith.....	527,131	Oct. 9	746	183	69	153
Hame-hook.....	W. J. Dankworth.....	515,997	Mar. 6	429	99	66	1532
Hame-hook.....	W. W. Miller.....	525,609	Sept. 4	480	115	68	1241
Hame-hook.....	R. B. Swann.....	513,217	Jan. 23	2470	596	66	564
Hame-hook.....	A. Thomson.....	521,901	June 26	2039	491	67	1620
Hame-link.....	J. Stanley.....	520,457	May 29	2646	639	67	1089
Hame-staple.....	C. D. Shrader.....	512,230	Jan. 2	825	500	66	157
Hammer and nail-puller. Combined.....	J. H. Heblthwaite.....	529,384	Nov. 20	1549	370	69	969
Hammer. Claw.....	W. H. and P. A. Burgess.....	524,539	Aug. 14	985	242	68	858
Hammer. Drop.....	W. A. Cornbrooks.....	524,311	Aug. 14	566	141	68	787
Hammer. Drop.....	E. W. Merrill.....	515,919	Mar. 6	293	69	66	1508
Hammer. Lath and shingle.....	W. A. Wiley.....	517,911	Apr. 10	812	204	67	170
Hammer. Magazine tack.....	F. R. Bischoff.....	522,237	Nov. 13	1282	308	69	898
Hammer. Mechanical.....	H. Lemp, C. G. Anderson, and G. Landmann.....	513,516	Jan. 30	2978	733	66	696
Hammer or hatchet.....	N. Chase.....	516,644	Mar. 20	1515	360	66	1767
Hammer. Pneumatic.....	J. Béché.....	526,606	Sept. 25	2232	533	68	1599
Hammer. Power.....	J. M. Andersen.....	522,701	July 10	897	221	68	188
Hammer. Power.....	A. Beaudry.....	526,370	Sept. 25	1832	435	68	1527
Hammer. Power.....	F. J. Fox.....	513,637	Jan. 30	3192	783	66	235
Hammer. Power.....	L. D. Howard.....	513,326	Jan. 23	2619	642	66	600
Hammer. Power.....	J. B. Sweeney and R. W. Laird.....	514,787	Feb. 13	1356	338	66	1127
Hammer. Power.....	J. B. Sweeney and R. W. Laird.....	529,634	Nov. 20	1987	474	69	1043

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Invention.	Name	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Hammer Riveting.	R. S. Peabody	528,558	Nov. 6	56	15	69	656
Hammer. Self-feeding magazine.	A. D. Cushing	516,593	Mar. 13	1419	336	66	1732
Hammer. Spring.	F. P. Shepard	514,385	Feb. 6	686	173	66	982
Hammer. Steam.	J. Béché, Jr.	514,694	Feb. 13	1198	298	66	1097
Hammer. Steam.	T. M. Shearer	517,150	Mar. 27	2373	561	66	1945
Hammer. Stone-cutter's bush	J. O'Donnell	513,196	Jan. 23	2442	590	66	558
Hammock.	T. B. Thomas	517,557	Apr. 3	232	53	67	46
Hammock-frame. Folding.	A. Karnbach	519,286	May 1	623	151	67	657
Hammock holder.	C. Gerber	512,580	Jan. 9	1411	340	66	278
Hammock stretcher or spreader.	R. C. Funke	518,568	Apr. 17	1960	484	67	389
Hammock-support	I. E. Palmer	522,720	July 10	932	233	68	195
Hammock-support	H. Wagner, Jr.	514,740	Feb. 13	319 320	66	1112	
Hammock-support or tent-frame	W. S. Young	519,898	May 15	1685	411	67	881
Hams. Boning and manufacturing	W. E. Brendon	511,927	Jan. 2	343	80	66	65
Hand bag	J. M. Allen	518,478	Apr. 17	1810	448	67	363
Hand-bag. Lady's	A. Hinkel	526,037	Sept. 18	1243	227	68	1403
Hand-bag. Lady's	M. E. Hoyle	518,034	Apr. 10	1027	259	67	206
Hand-bag, satchel, or valise	M. Lowy	524,466	Aug. 14	869	215	68	838
Hand-hole plates. Device for fastening.	N. W. Pratt	517,885	Apr. 10	763	191	67	162
Hand rake. Wheeled	J. L. Myers	514,017	Feb. 6	65	16	66	866
Hand-rest. Chirographer's	W. T. Smith	523,087	July 17	1554	390	68	325
Handle.							
See Anger-handle.	Firearm-handle.						
Bicycle-handle.	Knife-handle.						
Brush-handle.	Non-conducting handle.						
Car brake handle.	Razor-handle.						
Casket-handle.	Sad-iron handle.						
Coffee or tea pot handle.	Saw-handle.						
Coffin-handle.	Sheet-metal handle						
Controller-handle.	Tool-handle.						
Culinary-vessel handle.	Trunk-handle.						
Umbrella-handle.							
Handle.	L. M. Devore	525,189	Aug. 28	2126	518	68	1092
Handle.	H. A. Hirschfeld	516,930	Mar. 20	1966	467	66	1854
Handle.	P. Oswald	521,217	June 12	824	193	67	1360
Handles and covers to vessels. Attaching	G. W. Niedringhaus	519,069	May 1	223	53	67	579
Handle-bar. Adjustable.	A. O. Vory	526,333	Sept. 18	1754	416	68	1499
Handle for pans, tubs, &c.	J. S. Brown	514,410	Feb. 6	721	183	66	989
Handles and covers to vessels. Attaching	G. W. Niedringhaus	517,230	Mar. 27	2513	590	66	1972
Handles. Twister-head for tool.	N. Chase	513,481	Jan. 30	2916	718	66	685
Hanger.							
See Apparel-hanger.	Joist-hanger.						
Blind-hanger	Lamp-hanger.						
Book or paper hanger.	Mail-bag hanger.						
er.	Picture-hanger.						
Chart-hanger.	Pipe-hanger.						
Curtain-hanger.	Shade-hanger.						
Door-hanger.	Shaft-hanger.						
Eaves-trough hanger.	Shafting-hanger.						
er	Shelf-hanger.						
Garment-hanger.	Trolley-wire hanger.						
Hanger.	L. Lane	529,331	Nov. 13	1444	318	69	930
Hanger.	W. and B. Trehella, Jr.	523,558	July 24	2401	601	68	494
Hanging or swinging chair.	S. F. Purington	517,296	Mar. 27	2625	616	66	1994
Harmonica. Mouth.	G. Kaiser	516,096	Mar. 6	583	136	66	1561
Harness.	J. W. Anderson and R. S. Twiss	522,708	Nov. 6	327	80	69	706
Harness.	L. H. Creamer	519,149	May 1	370	88	67	609
Harness.	W. A. Fleming	531,172	Dec. 18	1925	458	69	1596
Harness.	D. M. Forsyth	521,981	Aug. 7	24	6	68	667
Harness.	R. G. Kennedy	527,944	Oct. 23	2223	536	69	455
Harness.	L. Middleton	514,092	Feb. 6	187	43	66	889
Harness.	R. Ortega	527,344	Oct. 9	1092	265	69	217
Harness.	J. Paszkowski	530,123	Dec. 4	84	22	69	1231
Harness.	W. E. A. Pipher	523,778	July 31	2790	693	68	581
Harness.	W. H. Sanborn	530,461	Dec. 4	660	164	69	1336
Harness.	J. A. Thompson	527,904	Oct. 23	2039	469	69	422
Harness.	E. F. Wilt	527,189	Oct. 9	832	202 203	69	170
Harness attachment	C. E. Barker	513,750	Jan. 30	3376	832	66	768
Harness attachment	G. Beck	529,014	Nov. 13	899	212	69	829
Harness attachment	E. K. Griesemer and J. H. Manger	514,825	Feb. 13	1412	356	66	1138
Harness attachment	B. S. Lilly	527,433	Oct. 16	1245	360	69	259
Harness breast-strap	C. H. Russell	531,569	Dec. 25	2630	630	69	1745
Harness or other strap	W. W. Bays	524,236	Aug. 7	453	106	68	744
Harness-rack	T. C. Moore	516,504	Mar. 13	1273	303	66	1705
Harness-strap	G. A. Whipple	518,575	Apr. 17	1969	466	67	391
Harness. Track.	J. L. Whipple	530,871	Dec. 11	1381	329	69	1482
Harp.	W. W. Batchelder, Jr.	517,723	Apr. 3	520	136	67	101
Harp.	A. J. Gery and R. Dolge	521,109	June 5	638	150	67	1312
Harp.	L. Lehman	526,630	Sept. 25	2265	542	68	1606
Harp.	W. J. Richie	518,512	Apr. 17	1869	463	67	373
Harp for bicycles. Wind	I. Armer	513,162	Jan. 23	2396	579	66	550
Harrow	B. R. Bones	512,259	Jan. 16	1920	454	66	390
Harrow	A. Brockschmidt	517,137	Mar. 27	2355	555	66	1942
Harrow	J. W. Brown	518,912	Apr. 24	2552	630 631	67	511
Harrow	G. Burkart	523,622	July 24	2504	628 629	68	514
Harrow	I. T. Evans	531,308	Dec. 25	2174	520	69	1656
Harrow	J. C. Freeman	525,648	Sept. 4	541	131	68	1251

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Harrow	P. J. Heller	527,978	Oct. 23	2185	526	69	499
Harrow	J. C. Johnson	519,767	May 15	1472	356	67	840
Harrow	W. A. O. Jones	527,993	Oct. 23	2221	536	69	455
Harrow	S. H. Merridith	524,260	Aug. 7	490	{ 113 114 }	68	750
Harrow	W. W. Michaux	526,933	Oct. 2	445	110	69	83
Harrow	F. Nishwitz	527,875	Oct. 23	1955	477	69	411
Harrow	J. Porteous	532,086	June 26	2373	571	67	1681
Harrow	J. L. Scudder	531,009	Dec. 18	1627	386	69	1541
Harrow	N. O. Starks	521,392	June 12	1134	{ 267 268 }	67	1418
Harrow	H. H. Tigner	516,412	Mar. 13	1114	264	66	1676
Harrow	M. J. Todd	527,352	Oct. 9	1106	270	69	219
Harrow	C. Wehrenberg	520,278	May 22	2352	571	67	1017
Harrow and cultivator. Combined sulky	T. J. Hubbell	512,110	Jan. 2	638	153	66	122
Harrow and cultivator. Combined sulky	T. J. Hubbell	527,174	Oct. 9	809	197	69	165
Harrow and scraper. Combined	I. Smith	521,826	June 26	1908	458	67	1594
Harrow attachment	B. M. Mills	522,178	June 26	2534	608	67	1711
Harrow. Circle	H. Jaenisch	513,329	Jan. 23	2652	643	66	600
Harrow. Disk	J. C. Bauer and J. P. Feyereisen	523,508	July 24	2323	584	68	479
Harrow. Disk	T. Boggs	513,072	Jan. 23	2246	542	66	519
Harrow. Disk	G. M. Clark	514,208	Feb. 6	396	{ 94 95 96 }	66	928
Harrow. Disk	J. Macphail	528,172	Oct. 30	2521	{ 610 611 }	69	525
Harrow. Disk	J. Macphail	528,173	Oct. 30	2524	{ 611 612 }	69	526
Harrow. Disk	G. W. Packer	530,054	Nov. 27	2736	656	69	1197
Harrow. Disk	C. S. Sharp	513,287	Jan. 23	2503	628	66	529
Harrow. Disk	J. W. Simpson	515,132	Feb. 20	1897	476	66	1241
Harrow-disk sharpener	J. T. Barker	518,215	Apr. 17	1350	337	67	280
Harrow-disk sharpener	M. A. Cameron and G. T. Dawson	525,040	Aug. 28	1950	476	68	1062
Harrow-disk sharpener	J. A. Cass	528,922	Nov. 13	749	176	69	803
Harrow-disks. Machine for sharpening	J. L. Shaw	517,810	Apr. 3	659	165	67	128
Harrow. Double-disk	H. Tallman	525,368	Sept. 4	85	22	68	1166
Harrow. Lever-adjusting	W. E. Smith	522,434	July 3	458	116	68	91
Harrow. Pulverizing	J. Boston	518,391	Apr. 17	1663	{ 411 412 }	67	337
Harrow. Reversible overlap-disk	T. B. Montgomery	525,960	Sept. 11	1122	255	68	1368
Harrow. Revolving	S. Shoemaker	517,365	Mar. 27	2738	643	66	2017
Harrow. Riding	W. F. Cochran	519,321	May 8	700	172	67	687
Harrow. Rotary	H. Cromer	518,520	Apr. 17	1880	466	67	375
Harrow. Spade	J. Drader	514,066	Feb. 6	141	34	64	860
Harrow. Spring-tooth	D. O. Everest and L. C. Lull	516,302	Mar. 13	925	217	66	1642
Harrow. Spring tooth	W. E. Smith	522,435	July 3	459	116	68	91
Harrow. Spring-tooth	M. J. Todd	513,372	Jan. 23	2723	661	66	613
Harrow. Spring-tooth	M. J. Todd	516,951	Mar. 20	2022	{ 478 479 }	66	1862
Harrow. Spring tooth	M. J. Todd	517,672	Apr. 3	438	106	67	84
Harrow-tooth fastener	E. A. Ovenshire	514,836	Feb. 13	1435	361	66	1142
Harrow. Track	H. Baker	517,206	Mar. 27	2477	553	66	1965
Harrows. Machine for sharpening roller-disk	T. Ellison	519,841	May 15	1591	389	67	863
Harvester	P. Hanson	523,661	July 31	2574	{ 643 644 645 }	68	543
Harvester	W. D. Harmon	519,019	May 1	126	31, 32	67	560
Harvester	G. G. Hunt	526,352	Sept. 18	1787	424	68	1505
Harvester	G. W. Ingersoll	531,535	Dec. 25	2571	615	69	1732
Harvester	S. D. Locke	525,957	Sept. 11	1117	254	68	1367
Harvester	W. McCloskey	517,654	Apr. 3	406	98, 99	67	78
Harvester	W. McCloskey	517,655	Apr. 3	408	99	67	78
Harvester	G. H. Miller	515,549	Feb. 27	2597	{ 643 644 }	66	1385
Harvester	B. Osgood	516,941	Mar. 20	2004	{ 472 473 }	66	1858
Harvester	E. Pridmore	529,954	Nov. 27	2527	609	69	1156
Harvester	B. F. Stewart	525,817	Sept. 11	865	{ 198 199 }	68	1321
Harvester and husker. Combination corn	J. Drake	522,008	June 26	2257	541	67	1658
Harvester attachment. Self-binding	W. A. Wilson	530,376	Dec. 4	531	132	69	1312
Harvester. Beet	W. K. Gird	512,287	Jan. 9	925	225	66	187
Harvester. Beet-root or potato	L. F. Wauthier	528,669	Nov. 6	640	152	69	763
Harvester. Berry	E. Horton	520,054	May 22	1946	476	67	943
Harvester bundle-carrier	J. J. Courtney	521,154	June 12	717	168	67	1340
Harvester bundle-carrier	M. A. Keller	525,685	Sept. 4	616	146	68	1264
Harvester clutch device	H. C. Stone	522,628	July 10	785	197	68	168
Harvester. Corn	J. Anderson	517,830	Apr. 10	683	170	67	147
Harvester. Corn	A. F. Batcheller	512,999	Jan. 16	2144	{ 510 511 }	66	431
Harvester. Corn	H. Claar	519,836	May 15	1585	358	67	862
Harvester. Corn	W. W. Condit	512,280	Jan. 9	907	{ 220 221 }	66	184
Harvester. Corn	H. M. Cox	531,512	Dec. 25	2536	607	69	1726
Harvester. Corn	J. Dable	513,673	Jan. 30	3252	{ 793 799 }	66	746
Harvester. Corn	W. C. Doubleday	512,541	Jan. 9	1351	{ 326 327 }	66	267
Harvester. Corn	A. E. Ellinwood	530,222	Dec. 4	258	63, 64	69	1262
Harvester. Corn	J. A. Johnson and N. O. Starks	516,309	Mar. 13	934	{ 219 220 }	66	1644
Harvester. Corn	W. K. Liggett	521,719	June 19	1715	{ 404 405 }	67	1542

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Harvester. Corn.....	W. K. Liggett.....	524,639	Aug. 14	1155	{ 284 225	68	891
Harvester. Corn.....	W. K. Liggett.....	524,968	Aug. 21	1701	{ 417 181	68	1001
Harvester. Corn.....	J. H. Newell.....	530,493	Dec. 4	738	{ 182 357 358	69	1349
Harvester. Corn.....	W. S. Osborn.....	526,197	Sept. 18	1524	{ 357 358	68	1452
Harvester. Corn.....	G. W. Packer.....	525,360	Sept. 4	67	{ 12, 19	68	1163
Harvester. Corn.....	R. Pederson.....	522,325	July 3	360	{ 92, 93 93	68	71
Harvester. Corn.....	R. Pederson.....	522,386	July 3	364	{ 94 95	68	72
Harvester. Corn.....	G. H. Schanek.....	512,124	Jan. 2	656	{ 157	66	126
Harvester. Corn.....	C. Scheetz.....	530,352	Dec. 4	490	{ 121	69	1304
Harvester. Corn.....	M. Sorenson.....	525,393	Sept. 4	128	{ 32, 33 34	68	1173
Harvester. Corn.....	W. R. Steiner.....	526,755	Oct. 2	145	{ 35 36	69	28
Harvester. Corn.....	H. R. Stevenson.....	517,899	Apr. 10	789	{ 198 199	67	166
Harvester. Corn.....	N. M. Tenney and G. W. Harrison.....	521,058	June 5	546	{ 128 129	67	1296
Harvester. Corn.....	J. B. and G. T. Tuckerman.....	513,161	Jan. 23	2387	{ 576 577	66	548
Harvester. Corn.....	G. L. Van Buren and T. C. Davis.....	512,072	Jan. 2	572	{ 135 136	66	109
Harvester. Corn.....	G. T. Van Buren and T. C. Davis.....	529,431	Nov. 20	1643	{ 391 392	69	985
Harvester. Corn.....	J. R. Wallingford and T. Forhan.....	512,771	Jan. 16	1762	{ 418	66	360
Harvester. Corn.....	H. Weller.....	525,375	Sept. 4	100	{ 25	68	1168
Harvester. Corn.....	E. E. Witter.....	518,516	Apr. 17	1874	{ 464	67	374
Harvester. Corn.....	E. E. Witter.....	526,602	Sept. 25	2220	{ 530 531 532	58	1597
Harvester. Corn.....	W. F. Ziegler.....	522,094	June 26	2383	{ 573	67	1683
Harvester. Corn or cane.....	R. B. Robbins.....	515,483	Feb. 27	2490	{ 616 617	66	1365
Harvester. Cotton.....	B. Ganse.....	520,045	May 22	1928	{ 472 473	67	940
Harvester. Cotton.....	G. Lisenard.....	517,050	Mar. 27	2209	{ 523 524 525	66	1913
Harvester. Cotton.....	G. Lisenard.....	517,409	Mar. 27	2841	{ 665 666	66	2037
Harvester. Cotton.....	G. N. Todd.....	529,430	Nov. 20	1639	{ 390 391	69	984
Harvester. Cotton.....	L. R. Turner.....	515,031	Feb. 20	1742	{ 439 440	66	1212
Harvester. Cotton.....	L. R. Turner.....	517,596	Apr. 3	294	{ 68	67	58
Harvester. Cotton.....	E. Whiting.....	526,209	Sept. 18	1545	{ 362 363	68	1457
Harvester cutter-bar.....	A. J. Woodin.....	526,827	Oct. 2	259	{ 63	69	49
Harvester-elevator.....	F. A. Judie.....	513,397	Jan. 23	2763	{ 673 674	66	621
Harvester-elevator.....	M. Kane. (Reissue).....	11,447	Oct. 16	1781	{ 429	69	359
Harvester-elevator.....	A. Stark.....	521,424	June 19	1320	{ 308	67	1469
Harvester-elevator.....	A. Stark.....	526,166	Sept. 18	1465	{ 342	68	1443
Harvester-elevator.....	O. O. Storie.....	528,745	Nov. 6	385	{ 92, 93	69	716
Harvester finger. Cotton.....	A. Levedahl.....	517,578	Apr. 3	266	{ 61	67	52
Harvester frictional clutch.....	H. C. Storie.....	521,425	June 19	1323	{ 308	67	1469
Harvester. Grain-binding.....	L. Miller.....	530,194	Dec. 4	205	{ 51, 52	69	1252
Harvester. Grain-binding.....	E. F. Wells.....	520,153	May 22	2138	{ 521 522	67	977
Harvester-knotter.....	W. B. Brown.....	531,152	Dec. 18	1885	{ 447	69	1588
Harvester. Potato.....	M. L. Aten.....	522,873	July 10	1186	{ 296	68	240
Harvester. Potato.....	C. Christianson.....	530,395	Dec. 4	560	{ 139	69	1318
Harvester. Potato.....	F. Schaefer.....	515,171	Feb. 20	1961	{ 479	66	1253
Harvester. Potato.....	L. L. Young.....	518,770	Apr. 24	2317	{ 575 574	67	467
Harvester sheaf-carrier.....	J. F. Seiberling.....	515,370	Feb. 27	2312	{ 573	66	1332
Harvester sheaf carrier and dumper.....	S. D. Locke, Jr.....	524,991	Aug. 21	1756	{ 428 429	68	1012
Harvesters. Frame structure for self-binding.....	W. Butterfield.....	512,001	Jan. 2	454	{ 108	66	87
Harvesters. Grain-conveying device for self-binding.....	J. F. Steward.....	512,067	Jan. 2	565	{ 134	66	108
Harvesters. Grain-elevator for self-binding.....	F. C. Almont.....	516,421	Mar. 13	1128	{ 269	66	1679
Harvesters. Twine-box and tension for self-binding.....	C. A. A. Rand.....	526,459	Sept. 25	2011	{ 479	68	1558
Harvesting implement. Hay.....	A. Smith and E. H. Lloyd.....	517,399	Mar. 27	2827	{ 661	66	2044
Harvesting-machine cord-knotter.....	M. A. Keller.....	525,463	Sept. 4	247	{ 60, 61	68	1196
Harvesting machine. Corn.....	J. S. Collins.....	516,918	Mar. 20	1970	{ 463	66	1851
Harvesting machine. Corn.....	C. K. Conner.....	521,101	June 5	623	{ 147	67	1309
Harvesting machine. Corn.....	J. A. Stone.....	521,679	June 19	1650	{ 387	67	1529
Harvesting machine. Corn.....	J. A. Stone.....	521,680	June 19	1653	{ 388 389	67	1529
Harvesting machine. Corn.....	J. A. Stone.....	521,681	June 19	1655	{ 389	67	1530
Harvesting machine. Corn.....	J. B. and G. T. Tuckerman.....	521,486	June 19	1324	{ 308	67	1469
Harvesting-machine knotter.....	J. F. Steward.....	519,395	May 8	842	{ 204	67	713
Harvesting or planting pouch.....	J. T. King and S. H. Truitt.....	516,097	Mar. 6	584	{ 137	66	1561
Hasp.....	J. L. Ruckingham.....	513,663	Jan. 30	3245	{ 796	66	744
Hasp-lock.....	J. A. Dixon.....	517,685	Apr. 3	453	{ 111	67	88
Hasp-lock.....	F. F. Getze.....	531,178	Dec. 18	1932	{ 460	69	1597

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Hasp-lock	C. T. Spencer	514,341	Feb. 6	624	159	66	970
Hasp sliding staple	J. L. Buckingham	513,667	Jan. 30	3244	796	66	744
Hat	D. Howell	522,777	Nov. 6	452	111	69	728
Hat and coat hook	C. E. Vail	516,284	Mar. 13	297	211	66	1637
Hat and coat hook. Locking	E. W. Sweigard	519,102	May 1	277	66	67	589
Hat-block. Expanding	S. E. Dunham	531,518	Dec. 25	2547	609 610	69	1728
Hat-blocking and band-cutting machine	C. M. Snell	526,269	Sept. 18	1639	3-6 387	68	1475
Hat-bodies. Apparatus for stretching felt	R. Robinson	522,806	Nov. 6	507	122	69	738
Hat-bodies. Method of and means for developing dyed stiff	R. Eickemeyer	513,992	Feb. 6	29	7	66	860
Hat-bodies on cones. Machine for wetting	G. W. Grover and J. A. Northrop	526,999	Oct. 2	534	131 132	69	100
Hat-bodies with hair. Machine for covering	P. P. Aries	517,257	Mar. 27	2558	600	66	1921
Hat-box	J. Weber	522,392	July 3	3-3	98	68	76
Hat-brim-curling machine	T. E. Avery. (Reissue)	11,405	Mar. 20	2125	503 504 505	66	1881
Hat-brim-pouncing machine	G. E. Brush	518,661	Apr. 24	2117	529 530	67	432
Hat-brim-stiffening machine	F. J. Murphy	519,194	May 1	453	111	67	625
Hat-conformator	S. H. Altland and S. Mayer	527,472	Oct. 16	1316	331	69	275
Hat-crown-stiffening machine	F. J. Murphy	519,195	May 1	455	112	67	625
Hat crowns and brims. Machine for pouncing	G. E. Brush	513,873	Jan. 30	3570	878 879	66	807
Hat-curler's iron-stand	W. Shoyer	522,858	July 10	1167	291	62	257
Hat-fastener	J. J. Riordan, Jr.	520,660	May 29	2978	730	67	1149
Hat-fastening device	W. Y. Allen	513,029	Jan. 16	2187	532	66	439
Hat-forming mold	J. Marshall	517,470	Apr. 3	94	21	67	20
Hat-lining machine	H. Charnbury	531,098	Dec. 18	17-1	424 425	69	1569
Hat or bonnet holder	I. D. Van Gorder	519,210	May 1	490	118	67	632
Hat-packing ring	S. T. Newman	520,145	May 22	2124	519	67	974
Hat-packing rings. Machine for automatically making pasteboard strips for	F. P. Ferry	523,833	July 31	2893	719 720 721	68	601
Hat-pin	O. Congelton and G. R. Boyd	530,927	Dec. 18	1478	350	69	1515
Hat-pin	F. Drinkwater	511,762	Jan. 2	34	9	66	10
Hat-pin	A. J. Mullican	522,080	June 26	2365	569	67	1679
Hat-pin retainer	C. P. Thomas	521,623	June 19	1659	3-9	67	1531
Hat-rack	C. E. Cochran	520,634	May 29	2938	710	67	1142
Hat setting and flanging machine	G. Roth	520,082	May 22	1999	489	67	953
Hat-sizing machines. Water-purifier for	W. J. Wiley	527,187	Oct. 9	836	201 202	69	169
Hat-stretching machine	R. Eickemeyer	527,271	Oct. 9	977	237 238	69	196
Hat. Ventilated	C. H. Davies	516,083	Mar. 6	566	132	66	1538
Hats by means of wire staples. Machine for attaching sweat leathers and bands to	F. W. Cooper	519,885	May 15	1667	406	67	877
Hats. Veneering	C. Vero	522,539	July 3	616	157	68	121
Hatch	E. M. Christian	525,333	Sept. 4	15	3	68	1154
Hatch. Elevator	S. W. Blanchard and W. A. Lambie	519,299	May 1	644	157	67	662
Hatchet	J. C. Scales	516,772	Mar. 20	1729	407	66	1805
Hatchet	J. C. Scales	517,934	Apr. 10	848	213	67	177
Hatchet. Shingling	C. J. Goodell	522,688	July 10	878	217	68	185
Hatchway. Automatic	J. M. Elder	521,107	June 5	633	149	67	1311
Hatchway-door mechanism	W. B. d'Arcy and W. K. Crofford	516,694	Mar. 20	1592	3-1	66	1783
Hatchway. Elevator	T. Barton	512,532	Jan. 9	1310	323	66	264
Hatchway guard. Elevator	J. W. Burdwin	523,196	July 17	1778	447	68	365
Hatchway. Self-closing	W. R. Wemple	516,037	Mar. 6	499	115	66	1545
Hawser and anchor-chain fair-leader	A. McDougall	512,209	Jan. 2	796	193	66	151
Hay and stock rack	L. Shanabarger	516,578	Mar. 13	1398	332	66	1729
Hay and stock rack. Combined	E. N. Avery	526,173	Sept. 18	1477	345	68	1444
Hay-carrier	A. P. Boyer	517,835	Apr. 10	689	172 173	67	148
Hay-carrier	W. Louden	515,296	Feb. 20	2179	540 541	66	1295
Hay-carrier	W. Louden	525,425	Sept. 4	183	47	68	1185
Hay-carrier	P. A. Myers	525,715	Sept. 11	686	159	68	1290
Hay-carrier and track	J. E. Porter	518,295	Apr. 24	2525	624	67	506
Hay-carrier apparatus	W. Louden	526,839	Oct. 2	277	67	69	53
Hay-carrier track	J. W. Provan	526,052	Sept. 18	4267	293	68	1407
Hay-carrier track and its connections	M. G. Grosscup	523,145	July 17	16-3	421	68	319
Hay-carriers. Jack and trip-pulley for	W. Louden	527,531	Oct. 16	1111	343	69	290
Hay-cocker	E. B. Keith	523,707	July 31	2669	662	68	559
Hay-curling machine	K. Wessel	515,891	Mar. 6	251	59	66	1591
Hay-derrick	J. R. Buford and J. Geery	518,584	Apr. 24	1990	492	67	410
Hay-elevator	W. Louden	527,530	Oct. 16	1403	343	69	290
Hay-elevator	W. Louden	530,232	Dec. 4	276	68, 69	69	1265
Hay-elevator and carrier	J. E. Porter	519,270	May 1	591	143	67	652
Hay-elevator pulleys. Means for shifting and securing	J. D. Swackie	527,737	Oct. 16	1741	420	69	351
Hay-frame brake	F. H. Hoch	519,907	May 15	1698	414	67	883
Hay-knife	F. J. Feneran and E. D. Milks	519,251	May 1	565	137	67	646
Hay-lifter	O. Briggs	517,945	Apr. 10	864	218	67	179
Hay-loader	W. S. Bangh	515,272	Feb. 20	2132	530	66	1286
Hay-loader	W. C. Card	512,096	Jan. 2	611	147	66	117
Hay-loader	E. Einfeldt	531,521	Dec. 25	2552	610 611	69	1729
Hay-loader	C. M. Gates	513,996	F. b. 6	38	8	66	861
Hay-loader	N. O. Henderson	515,773	Mar. 6	78	18, 19	66	1468

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Hay-loader.....	C. C. Jewett.....	530,691	Dec. 11	1099	266 267 268	69	1430
Hay-loader.....	E. B. Keith.....	520,059	May 22	1951	477 478	67	944
Hay-loader.....	C. E. Lindström.....	522,992	July 17	1408	351	68	297
Hay-loader.....	A. M. L. Isberger.....	520,324	May 22	2423	589	67	1031
Hay-loader.....	J. L. and P. C. McCreary.....	513,410	Jan. 23	2780	679 680	66	625
Hay-loader.....	J. F. Platt.....	526,537	Sept. 25	2118	507 508	68	1578
Hay-loader.....	A. L. Rice.....	527,510	Oct. 16	1373	334	69	244
Hay-loader.....	W. H. Scheer.....	512,908	Jan. 16	1996	473	66	405
Hay-loader.....	I. E. Stump.....	518,555	Apr. 17	1933	477 478	67	384
Hay or stock frame.....	J. D. L. Jones.....	514,472	Feb. 13	831	210 211	66	1027
Hay-press.....	J. F. Adams.....	528,755	Nov. 6	406	98, 99	69	720
Hay-press.....	S. W. Bricker.....	522,960	July 17	1357	336 337	68	288
Hay-press.....	J. W. Carmack.....	512,465	Jan. 9	1239	299 300	66	246
Hay-press.....	J. N. Eastwood.....	526,441	Sept. 25	1977	471 472	68	1553
Hay-press.....	S. Etchison.....	524,634	Aug. 14	1146	281	68	849
Hay-press.....	W. J. Pearce.....	518,965	May 1	41	12	67	544
Hay-press.....	L. Primeau.....	515,013	Feb. 20	1706	428	66	1207
Hay-press.....	J. A. Stokely.....	524,771	Aug. 21	1377	335 336	68	943
Hay-press.....	R. H. Walton.....	521,923	June 26	2078	499	67	1627
Hay-press.....	N. B. Wilder.....	529,540	Nov. 20	1848	440	69	1021
Hay-press feeder.....	H. Fette.....	521,261	June 12	905	213	67	1374
Hay-press feeder. Automatic.....	W. H. H. Johnson.....	521,657	June 19	1609	377 378	67	1521
Hay-rack.....	G. Hausmann.....	522,056	June 26	2326	559	67	1671
Hay-rack.....	H. C. Rogers.....	527,292	Oct. 9	1011	245 246	69	202
Hay-rack.....	E. White.....	513,549	Jan. 30	3042	749	66	708
Hay-rack, hay-stand, and stock-wagon. Combined..	W. P. Kimbrell.....	526,039	Sept. 18	1245	288 289	68	1403
Hay-rake.....	J. G. Archer.....	513,552	Jan. 30	3046	750	66	709
Hay-rake.....	G. A. Gemmer.....	518,993	May 1	91	22	67	552
Hay-rake.....	G. D. Lamm.....	520,320	May 22	2417	588	67	1029
Hay-rake.....	B. F. Smith.....	517,246	Mar. 27	2534	595 596	66	1977
Hay-rake.....	B. F. Smith.....	526,586	Sept. 25	2193	524	68	1592
Hay rake and loader.....	J. T. Bell and A. T. Stewart.....	530,422	May 29	2587	626 627	67	1078
Hay rake and loader.....	C. E. Giles and A. H. Maxwell.....	511,887	Jan. 2	275	63	66	54
Hay rake and loader.....	J. Martin.....	511,205	Dec. 18	1982	471	69	1606
Hay rake and loader.....	P. M. Thompson.....	522,629	July 10	787	198	68	168
Hay rake and loader.....	C. E. White.....	518,085	Apr. 10	1111	281 282	67	219
Hay rake and loader. Combined side-delivery.....	J. W. Harmon.....	524,659	July 10	827	206 207	68	175
Hay rake and shocker.....	J. T. Hough.....	524,439	Aug. 14	827	202	68	830
Hay rake and stacker. Combined.....	A. Ryan.....	526,819	Oct. 2	241	59, 60	69	46
Hay-rake. Automatic center-delivery.....	L. H. and O. N. Kimball.....	519,262	May 1	579	141	67	649
Hay-rake. Horse.....	P. F. and C. A. Fleming.....	526,807	Oct. 2	227	55	69	43
Hay-rake. Horse.....	O. Richards.....	521,271	June 12	918	217 218	67	1377
Hay-rake. Horse.....	J. E. Wyckoff.....	526,886	Oct. 2	359	90 91	69	67
Hay rake, tedder, and loader. Combined.....	J. H. Ridings.....	521,247	June 12	875	207 208	67	1369
Hay ricker or loader.....	A. L. Courtright.....	520,180	May 22	2184	532	67	986
Hay-sling.....	W. Gutenkunst.....	514,710	Feb. 13	1238	306	66	1103
Hay-stack frame.....	J. P. Brown.....	529,589	Nov. 20	1924	459	69	1036
Hay-stacker.....	W. C. Dawes.....	528,862	Nov. 6	628	149	69	761
Hay-stacker.....	J. L. Funkhauser.....	517,099	Mar. 27	2298	542	66	1931
Hay-stacker.....	H. L. Short.....	520,608	June 5	85	19, 20	67	1213
Hay stacker and loader.....	M. R. Jenkins.....	514,715	Feb. 13	1235	308	66	1104
Hay stacker and loader. Combined.....	W. H. Rouse.....	526,367	Sept. 18	1824	433	68	1513
Hay-tedder.....	W. N. Whiteley.....	530,147	Dec. 4	118	30	69	1237
Hay-unloading device.....	F. A. Killpack.....	517,867	Apr. 10	736	185	67	156
Head-block air-cushion.....	W. E. Dean.....	513,091	Jan. 23	2271	548	66	525
Head-cutting machine.....	W. Nier.....	525,612	Sept. 4	485	116	68	1242
Head-rest.....	G. W. Archer.....	518,771	Apr. 24	2319	576	67	468
Head-rest.....	A. W. Browne.....	522,192	July 3	11	3, 4	68	4
Head-rest.....	W. E. Hunt.....	522,563	July 3	659	168	68	129
Head-rest.....	A. Schwaab, Jr.....	520,577	May 29	2847	687	67	1126
Headers or tubes. Machine for spreading ends of.....	C. P. Higgins.....	524,324	Aug. 14	607	145 146	68	791
Headlight.....	E. C. Glazier.....	517,920	Apr. 10	826	207	67	173
Headlight.....	W. Prescott.....	517,237	Mar. 27	2522	592 593	66	1974
Headlight-reflector.....	M. O. Ainslie.....	525,571	Sept. 4	428	102	68	1230
Hearse.....	C. Edwards.....	521,647	June 19	1595	373	67	1518
Heat generating and distributing apparatus.....	J. L. Howell.....	513,508	Jan. 30	2964	729	66	694
Heat-magazine. Refractory and non-conducting.....	C. H. Land.....	528,272	Oct. 30	2099	650 651	69	557
Heat-motor plant.....	R. D. Kinney.....	521,910	June 26	2055	495	67	1623
Heat-regulating apparatus. Automatic.....	C. F. Goodhue.....	516,198	Mar. 13	759	177 178	66	1610
Heat-regulator.....	J. F. McElroy.....	520,893	June 5	257	61	67	1244
Heat-regulator. Automatic.....	H. B. Snook.....	516,880	Mar. 20	1900	449	66	1840

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Heater:							
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Barrel-heater.	Hot-air and hot-water heater.						
Car-heater.	heater.						
Curling-iron heater.	Hot-water heater.						
Electric heater.	Lamp-heater.						
Electrical heater.	Lunch-heater.						
Feed-water heater.	Oil-heater.						
Feed-water-pipe heater.	Portable heater.						
Fireplace-heater.	Sad-iron heater.						
Flat-iron heater.	Steam or hot-water heater.						
Gas-heater.	Tire-heater.						
Grain-heater.	Water-heater.						
	Well-heater.						
Heater.....	J. H. Adams.....	519,560	May 8	1128	271	67	764
Heater.....	Z. H. Bools.....	524,538	Aug. 14	983	241	68	858
Heater.....	H. C. Cowdrey.....	522,453	July 3	483	123	68	96
Heater.....	J. Hauser.....	514,145	Feb. 6	269	66, 67	66	904
Heater.....	A. H. Kingman and T. C. Mosely.....	512,035	Jan. 2	510	121	66	98
Heater.....	R. H. Laird.....	523,477	July 24	2265	569	68	468
Heater.....	J. McLoughlin.....	522,850	July 10	1157	287	68	234
Heater.....	M. Ready.....	524,399	Aug. 14	771	188	68	819
Heater.....	D. S. Richardson.....	521,420	June 12	1180	280	67	1427
Heater.....	C. B. Wanamaker.....	528,404	Oct. 30	2929	281	69	598
Heater and table.....	E. M. Burchard.....	520,632	May 29	2935	709	67	1142
Heater, cooler, and ventilator. Combined.....	E. F. Ruehr.....	516,405	Mar. 13	1101	262	66	1673
Heater for soldering-irons, &c.....	C. H. Perkins.....	519,305	May 1	661	160	67	665
Heaters. Cast-iron conduit for steam or hot-water.....	C. J. Balthasar.....	520,747	May 29	3135	759	67	1178
Heating and cooking device.....	J. Allingham.....	517,321	Mar. 27	2663	625	66	2001
Heating and smoke-consuming apparatus.....	G. W. Poole.....	515,718	Feb. 27	2870	715	66	1439
Heating and ventilating apparatus.....	W. W. Ensign.....	525,807	Sept. 11	846	192	68	1318
Heating and ventilating apparatus. Building.....	A. McFadyen.....	527,604	Oct. 23	1857	446	69	390
Heating and ventilating, &c. Apparatus for.....	J. Reynolds.....	515,250	Feb. 20	2093	519	66	1278
Heating and ventilating dwelling-houses.....	A. H. Smith.....	514,970	Feb. 20	1646	412	66	1196
Heating and ventilating rooms. Apparatus for.....	T. N. Rogers.....	526,792	Oct. 2	203	48	69	38
Heating and ventilating rooms. Device for.....	J. Cinnamon.....	530,016	Nov. 27	2663	639	69	1184
Heating and ventilating rooms. Device for.....	C. Mills.....	517,759	Apr. 3	579	142	67	112
Heating and water-circulating system.....	H. A. Spear.....	527,626	Oct. 16	1558	377	69	317
Heating apparatus.....	E. E. Ashley.....	520,911	June 5	290	70, 71	67	1250
Heating apparatus.....	C. A. Burt.....	512,000	Jan. 2	451	107	66	86
Heating apparatus.....	J. T. Grindrod.....	526,780	Oct. 2	187	44	69	36
Heating apparatus.....	J. Hinstin.....	529,072	Nov. 13	996	237	69	846
Heating apparatus.....	E. R. Soleau.....	521,348	June 12	1070	250	67	1406
Heating apparatus.....	R. H. Stubbs.....	518,798	Apr. 24	2359	584	67	475
Heating apparatus. Box or furnace for electric.....	C. L. Coffin.....	530,019	Nov. 27	2666	640	69	1185
Heating apparatus. Electric.....	A. E. Appleyard.....	516,071	Mar. 6	547	128	66	1555
Heating apparatus. Electric.....	G. D. Burton.....	521,099	June 5	621	146	67	1308
Heating apparatus. Hot-air.....	H. P. Judson.....	518,250	Apr. 17	1407	352	67	290
Heating apparatus. Hot-air.....	S. H. La Rue.....	516,017	Mar. 6	459	106	66	1537
Heating apparatus. Hot-water.....	S. J. Anderson.....	528,061	Oct. 23	2328	561	69	474
Heating apparatus. Hot-water.....	A. T. Henderson.....	520,677	May 29	3025	732	67	1158
Heating apparatus. Hot-water.....	S. N. Murgittroyd.....	522,226	July 3	88	20	68	18
Heating apparatus. Hot-water.....	J. C. Norton.....	516,061	Mar. 6	535	124	66	1552
Heating apparatus. Hot-water.....	J. M. Thayer.....	512,847	Jan. 16	1884	446	66	383
Heating apparatus. Oil-vapor.....	E. Strauss.....	519,396	May 8	844	204	67	714
Heating apparatus. Steam.....	R. M. Dixon.....	523,962	July 31	3134	780	68	647
Heating apparatus. Steam.....	C. H. Robinson.....	521,440	June 12	1224	290	67	1434
Heating apparatus. Steam.....	H. C. Simmons.....	513,369	Jan. 23	2717	660	66	612
Heating apparatus. Steam.....	E. Watts.....	521,093	June 5	612	145	67	1307
Heating apparatus. Water.....	J. J. Blackmore.....	512,430	Jan. 9	1172	285	66	233
Heating-boiler.....	S. Bartley.....	530,155	Dec. 4	131	35	69	1239
Heating-boiler.....	H. C. Steinhoff.....	528,401	Oct. 30	2920	706	69	596
Heating-boiler. Hot-water.....	D. F. Morgan.....	519,132	May 1	342	81	67	604
Heating-boiler. Hot-water.....	D. F. Morgan.....	519,133	May 1	343	81	67	604
Heating-boiler. Steam or hot-water.....	L. R. Blackmore.....	531,298	Dec. 25	2156	516	69	1653
Heating device.....	A. Burkart-Stalder.....	530,390	Dec. 4	554	138	69	1316
Heating device. Hot-water.....	M. F. Bishop.....	514,437	Feb. 13	759	194	66	1014
Heating forced draft.....	T. M. Rymer-Jones.....	523,598	July 24	2463	618	68	506
Heating-furnace.....	C. D. Howard.....	528,479	Oct. 30	3062	742	69	622
Heating-furnace.....	L. Jackman.....	525,763	Sept. 11	766	177	68	1304
Heating-furnace.....	L. P. D. Yost.....	524,370	Aug. 14	711	172	68	808
Heating furnace. Air.....	S. L. Wiegand.....	529,090	Nov. 13	1027	247	69	852
Heating furnace. Water.....	A. Anderson.....	526,096	Sept. 18	1347	313	68	1421
Heating, illuminating, or culinary purposes. Appliance for.....	F. E. Browne.....	521,201	June 12	796	187	67	1334
Heating liquids by means of steam. Apparatus for.....	D. B. Morison.....	529,283	Nov. 13	1367	328	69	914
Heating. Method of.....	W. P. Skiffington.....	527,029	Oct. 2	586	142	69	111
Heating or ventilating device.....	H. P. Huse.....	515,685	Feb. 27	2816	702	66	1429
Heating plants. Air-storing pipes in steam.....	H. Martini.....	526,497	Sept. 25	2065	491	68	1568

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Heating, smelting, and separating. Apparatus for electric	J. W. Woodfolk and J. C. Wharton	531,143	Dec. 18	1866	443	69	1585
Heating system.	R. M. Dixon	517,035	Mar. 27	2175	515	66	1907
Heating system.	A. G. Paul	526,733	Oct. 2	102	25, 26	69	21
Heating system.	W. P. Skiffington	526,754	Oct. 2	139	33, 34	69	28
Heating system for cars, &c	J. W. Beach	521,008	June 5	459	109 110	67	1279
Heating system. Hot-water	L. G. Allen	529,098	Nov. 13	1039	250 251	69	855
Heating systems. Device for removing air from steam	L. Hussey and E. McCann	524,110	Aug. 7	239	55, 56	68	705
Heating systems. Heater for hot-water	F. E. Dack	517,683	Apr. 3	454	110	67	87
Heating with liquid fuel. Means for	A. Harmuth	516,928	Mar. 20	1984	466	66	1854
Hedges. Mode of and appliance for plashing.	M. Neil	518,466	Apr. 17	1794	445	67	361
Heel	G. Fowler	530,760	Dec. 11	1208	204	69	1470
Heel	A. P. Gotham	517,157	Mar. 27	2392	564	66	1949
Heel	A. P. Gotham	520,522	May 29	2754	666	67	1107
Heel	W. Morrison and W. H. Purser	518,266	Apr. 17	1433	358 359	67	294
Heel	H. Rogers	513,622	Jan. 30	3164	777	66	730
Heel	J. W. Rogers	517,965	Apr. 10	911	228	67	187
Heel	C. L. Schrader	522,234	July 3	103	24	68	20
Heel-breast finisher	N. Churchill and W. C. Baxter	520,768	June 5	11	3	67	1199
Heel-burnishing machine. Wax	J. O. Collins	515,653	Feb. 27	2758	687	66	1418
Heel-cutter	A. McDowell	518,043	Apr. 10	1053	267	67	209
Heel-molding apparatus. Spring	J. P. Busfield	526,890	Oct. 2	305	91	69	68
Heel-nail	G. A. Curtis	515,952	Mar. 6	343	81	66	1517
Heel-nailing machine	C. S. Hill and W. E. Bailey	511,951	Jan. 2	380	88	66	72
Heel-nailing machine	A. White	519,144	May 1	359	86, 87	67	607
Heel-nailing-machine jack	S. A. Krewson	514,852	Feb. 13	1463	367	66	1148
Heel-pressing machine	J. J. Heys	530,046	Nov. 27	2707	650 651	69	1193
Heel randing and trimming machine	J. F. Isaacson	515,492	Feb. 27	2504	619 620	66	1367
Heel-stiffener machine	L. Coté	515,114	Feb. 20	1863	468	66	1235
Heel-stiffener machine	N. J. Simonds	530,462	Dec. 4	662	164 165	69	1337
Heel-stiffener machine	W. J. Young	519,936	May 15	1744	427 428	67	891
Heel-stiffeners. Machine for cutting	G. F. Moore	513,242	Jan. 23	2319	607 608	66	575
Heel-trimming machine	C. H. Trask	521,770	June 19	1819	431 432	67	1559
Heels. Apparatus for forming spring.	J. P. Busfield	524,101	Aug. 7	221	51	63	702
Heliograph attachment	A. L. Wetherill	527,640	Oct. 16	1585	383	69	323
Heliomotor	L. W. Allingham	514,669	Feb. 13	1159	288	66	1089
Hermetically closing gazogenes, &c. Means for	J. Engster	526,696	Oct. 2	41	11	69	11
Hide and skin machine	W. Evans	526,387	Sept. 25	1863	443 444 52	68	1532
Hide-shaving apparatus	G. A. Lawrence	528,638	Nov. 6	214	53 54	69	685
Hides. Apparatus for electrolytically treating raw.	P. R. D. d'Humy	512,706	Jan. 16	1619	389	66	333
Hides, &c. Machine for dressing.	W. Evans	525,493	Sept. 4	298	72	68	1205
Hides, &c. Machine for rolling.	G. M. Dishar	515,200	Feb. 20	2003	500	66	1261
Hides or skins. Apparatus for treating	I. Vaughn	525,372	Sept. 4	91	23, 24	68	1167
Hides or skins. Machine for working	G. W. Baker	512,088	Jan. 2	600	144	66	115
Hides. Treating	D. A. Goodman	523,427	Oct. 30	2969		69	605
High chair	G. A. Morfoot	518,070	Apr. 10	1091	275	67	215
High-speed engine	J. Dow	521,706	June 19	1688	396 397	67	1537
Hinge.	J. J. Berry	590,629	May 29	2931	708	67	1141
Hinge.	T. Corscaden	518,308	Apr. 17	1497	375	67	306
Hinge.	W. B. Deming	518,309	Apr. 17	1498	375	67	307
Hinge.	A. M. Granger	517,857	Apr. 10	724	182	67	154
Hinge.	H. H. Gridley	513,042	Jan. 16	2207	528	66	443
Hinge.	J. B. Knittel	525,712	Sept. 11	683	158	68	1289
Hinge.	G. Laube	514,856	Feb. 13	1467	368	66	1149
Hinge.	J. H. Lawrence	518,741	Apr. 24	2275	565	67	459
Hinge.	J. Nichols	517,124	Mar. 27	2335	550	66	1938
Hinge.	A. Riley	529,312	Nov. 13	1420	341	69	925
Hinge. Awning-blind	A. Howes	522,295	July 3	211	57	68	42
Hinge. Blind	N. McKinnon	530,709	Dec. 11	1194	273	69	1434
Hinge. Blind	A. C. Siekman	525,366	Sept. 4	79	21	68	1165
Hinge. Combination lock	E. Lundgren	530,436	Dec. 4	623	155	69	1329
Hinge. Concealed	A. A. Oat, Sr.	521,528	June 19	1397	323	67	1482
Hinge. Flush lounge.	J. W. Brown	526,019	Sept. 18	1214	279	68	1397
Hinge for electric apparatus	A. B. Davis	511,515	Dec. 25	2543	608	69	1727
Hinge for rules and protractors	J. K. Love	512,199	Jan. 2	781	190	66	148
Hinge for school-desk seats	M. L. Noble and E. Buxton	522,916	July 10	1267	313 314	68	255
Hinge for school-seats. Automatic	E. M. Dennis	511,881	Jan. 2	265	61	66	52
Hinge for step-ladders, &c.	J. and C. Koehler	519,535	May 8	1094	262	67	759
Hinge. Furniture.	R. F. Collins	523,304	July 17	1954	492	68	398
Hinge. Furniture.	J. H. Stiggelman	526,270	Sept. 18	1642	387	68	1476
Hinge. Gate.	G. M. Bowen	527,765	Oct. 23	1791	432	69	378
Hinge. Gate.	L. Haego	527,685	Oct. 10	1659	400	69	336
Hinge. Lock.	J. Ashton	530,377	Dec. 4	533	133	69	1312
Hinge. Lock.	W. T. Bessonet	521,429	June 12	1200	284	67	1430
Hinge. Lock.	Z. B. Chase	518,021	Apr. 10	1009	253	67	202
Hinge. Lock.	W. Herenscheidt	529,171	Nov. 13	1164	220	69	878
Hinge. Lock.	A. J. McCauley	516,546	Mar. 13	1342	320	66	1719
Hinge. Pintle and making same. Blind	C. E. Hart	524,483	Aug. 14	895	220	68	841
Hinge. School-seat.	J. W. Fisher	518,988	May 1	83	21	67	551

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Hinge-seating device	W. R. Williams	526,626	Oct. 2	256	62, 63	69	49
Hinge. Self-closing concealed	A. A. Oat, Sr	521,546	June 19	1422	330	67	1486
Hinge. Shutter	A. O. Elzner	525,843	Sept. 11	928	207	68	1332
Hinge. Shutter	D. U. Stouer	528,571	Nov. 6	84	21	69	661
Hinge. Spring	R. Brindle	519,833	May 15	1579	387	67	861
Hinge. Spring	A. S. Held	515,334	Feb. 27	2253	558	66	1320
Hinge. Spring	W. P. Keenan	515,433	Feb. 27	2420	599	66	1352
Hinge. Spring	F. Keil	522,732	July 10	967	241	68	200
Hinge. Spring	L. Mouat, Jr	522,612	July 10	759	{ 191 192 }	68	163
Hinge. Spring	A. A. Page	525,860	Sept. 11	960	215	68	1338
Hinge. Spring	A. A. Page	525,861	Sept. 11	963	215	68	1338
Hinge. Spring	A. A. Page	526,162	Sept. 18	1458	341	68	1442
Hinge. Spring	G. A. Payson	525,511	Sept. 4	316	78 79	68	1210
Hinge. Spring	L. R. Pomeroy	518,626	Apr. 24	2054	511	67	421
Hinge. Spring	M. Redlinger	524,351	Aug. 14	677	165	68	801
Hinge. Spring	H. A. Rippien	527,158	Oct. 9	788	192	69	161
Hinge. Spring	A. H. Wilson	518,639	Apr. 24	2078	518	67	425
Hinge. Stop	G. A. McKenzie	528,258	Oct. 30	2620	646	69	555
Hinge. Strap	W. H. Hart	527,975	Oct. 23	2177	523	69	447
Hinge. Strap	L. H. Sholder	530,729	Dec. 11	1159	281	69	1440
Hinges. Manufacture of strap	T. Corscaden	519,243	May 1	551	134	67	644
Hinges or links. Machine for forming wire	H. S. Reynolds	519,160	May 1	396	96	67	614
Histological case	W. Autenrieth	512,496	Jan. 9	1293	310	66	255
Hitching clamp	L. Dunn	513,768	Jan. 30	3401	839	66	773
Hitching device	C. W. Collins	515,325	Feb. 27	2237	554	66	1318
Hitching device	A. G. Hamblin	530,992	Dec. 13	1593	378	69	1535
Hitching device	J. P. Muth	519,691	May 15	1676	408	67	879
Hitching device. Horse	J. G. Engberg	518,366	Apr. 17	1626	401	67	330
Hitching device. Horse	C. Gengnagel	520,487	Nov. 20	1751	416	69	1003
Hitching device. Horse	J. W. McHenry	520,608	May 29	2898	700	67	1135
Hitching device. Rope	E. F. Parker	525,770	Sept. 11	779	180	68	1306
Hitching device. Stock	S. F. Clark	521,782	June 26	1842	439	67	1550
Hitching horses. Means for	M. P. Hagen	526,898	Oct. 2	384	95, 96	69	72
Hitching post	L. W. Chino	515,818	Mar. 6	143	35	66	1460
Hitching strap	F. Sweetland	530,136	Dec. 4	100	26	69	1233
Hitching strap	J. H. Valteau	525,568	Sept. 4	424	101	68	1230
Hitching strap	J. H. Valteau	528,495	Oct. 30	3086	748	69	627
Hitching strap	J. H. Valteau. (Reissue)	11,457	Dec. 11	1459	345	69	1496
Hobby-horse	R. A. Horning	517,142	Mar. 27	2362	{ 557 558 }	66	1943
Hod	A. G. Brandt and F. M. Spencer	524,799	Aug. 21	1421	348	68	952
Hod-elevator. Chain	G. P. Wern	527,305	Oct. 9	1034	251	69	206
Hoe. Garden	J. H. Andre	522,872	July 10	1185	295	68	240
Hoe. Horse	C. Gindler	527,419	Oct. 16	1220	{ 298 299 }	69	254
Hoe. Weeding	A. Evans	514,419	Feb. 6	732	186	66	991
Hog trough	C. F. Haigler	517,101	Mar. 27	2301	542	66	1931
Hoist	D. E. Rowland	524,403	Aug. 14	778	190	68	820
Hoist. Differential	W. T. Sears	515,696	Feb. 27	2838	{ 706 707 }	66	1433
Hoist-drum for discharge apparatus of coal or ore docks.	D. T. Denton	514,262	Feb. 6	497	122	66	946
Hoist. Pneumatic	H. Schweim	519,436	May 8	903	217	67	725
Hoist winding mechanism	W. H. Lindsay	522,529	July 3	601	{ 153 154 }	68	118
Hoisting and conveying apparatus	S. M. Hewett	517,859	Apr. 10	726	183	67	154
Hoisting and conveying apparatus	T. S. Miller	521,035	June 5	500	119	67	1287
Hoisting and conveying apparatus	T. F. Moore	524,502	Aug. 14	923	229	68	847
Hoisting and conveying apparatus. Bucket	T. F. Moore	524,806	Aug. 21	1432	{ 350 351 }	68	954
Hoisting and conveying machine	D. I. Calhoun	513,082	Jan. 23	2256	545	66	521
Hoisting and drilling machine	T. B. Hackman, L. and A. Ruppel	529,378	Nov. 20	1535	367	69	967
Hoisting and transfer apparatus	W. D. Sherman	518,901	Apr. 24	2532	{ 626 627 }	67	508
Hoisting apparatus	J. V. Beekman	524,300	Aug. 14	565	{ 134 135 }	68	783
Hoisting apparatus	C. C. Kinsman	524,553	Aug. 14	1016	250	68	864
Hoisting apparatus	C. Pay	513,135	Jan. 23	2348	566	66	541
Hoisting apparatus	H. A. Pedrick	525,561	Sept. 4	412	99	68	1227
Hoisting apparatus	L. Rosenfeld	526,263	Sept. 18	1631	383	68	1474
Hoisting apparatus	W. Roth	519,294	May 1	637	155	67	660
Hoisting apparatus. Electrical	H. C. Spaulding	516,843	Mar. 20	1641	435	66	1828
Hoisting block	T. R. Ferrall	511,766	Jan. 2	39	10	66	11
Hoisting device	W. E. Tretheway	525,875	Sept. 11	983	221	68	1343
Hoisting-drum	H. Bolthoff	526,007	Sept. 11	1189	272	68	1380
Hoisting-machine	L. Hamerly	520,426	May 29	2593	628	67	1079
Hoisting-machine	G. C. Murrey	512,258	Jan. 2	869	209	66	164
Hoisting machinery	A. J. Shaw	528,618	Nov. 6	168	41	69	676
Hoisting machinery	A. J. Shaw	528,619	Nov. 6	170	11, 42	69	676
Hoisting machinery	A. J. Shaw	528,621	Nov. 6	173	42, 43	69	677
Hoisting machinery. Electric	A. J. Shaw	528,620	Nov. 6	171	42	69	677
Hoisting machinery, &c. Hydraulic	H. W. Umney	527,908	Oct. 23	2047	{ 491 492 }	69	424
Hoisting machinery. Switch-operating mechanism for	A. J. Shaw	528,615	Nov. 6	163	39, 40	69	675
Hoisting mechanism	W. Hoey	512,511	Jan. 9	1311	{ 316 317 }	66	259
Hoisting mechanism	W. Hoey	526,488	Sept. 25	2052	488	68	1565
Hoisting mechanism	G. F. Jennings	528,297	Oct. 30	2748	664	69	565
Hoisting or lifting apparatus brake	A. Bolzani	525,522	Sept. 4	347	85	68	1215
Hoisting-tackle	F. E. Young	524,015	Aug. 7	80	18	68	67
Hoisting-tackle. Differential	W. Schermuly	511,863	Jan. 2	185	16, 47	66	39
Holdback	W. Rice	520,612	May 29	2904	701	67	1136

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Holdback	D. Warner	519,363	May 8	785	192	67	703
Holdback. Vehicle	W. Finlay	514,219	Feb. 6	424	103	66	932
Holdback. Vehicle	C. Leiby	512,117	Jan. 2	649	155	66	124
Holdback. Vehicle	E. Marleau	512,041	Jan. 2	520	123	66	100
Holdback. Vehicle	S. F. Robbins	524,095	Aug. 7	211	49	65	760
Hollow articles. Apparatus for manufacturing	M. A. Joubert-Pastré	516,056	Mar. 6	528	122	66	1550
Hollow ware. Machine for making	H. Dyer and W. H. Bingham	526,693	Oct. 2	37	9.10	69	10
Hominy-mill	R. G. Jenckes	522,468	July 3	506	{ 128 125 }	68	101
Hoof boot and pad	W. Sidebotham	519,822	May 15	1561	382	67	857
Hoof-gage	Z. L. Hayden	513,574	Jan. 30	3086	759	66	716
Hoof-trimmer	W. K. Fraley	511,885	Jan. 2	272	62	66	53
Hoof trimming and paring device	D. M. Sutton	524,408	Aug. 14	785	192	68	821
Hoof-weight	F. D. Scott	523,180	July 17	1748	439	68	360
Hook:							
See Back-band hook. Hame-hook.							
Belt-hook. Hat and coat hook.							
Cant-hook. Ice-hook.							
Check-hook. Lacing-hook.							
Checkrein-hook. Log-rolling hook.							
Clamp-hook. Mousing-hook.							
Coat and hat hook. Picture hook.							
Conductor-hook. Release-hook.							
Detachable hook. Snap-hook.							
Display-hook. Split-link center-pin hook.							
Dress-hook. Trace-hook.							
Fish-hook. Wardrobe-hook.							
Garment-hook. Whiffletree-hook.							
Grass-hook.							
Hook	C. Crowther	527,732	Oct. 23	1900	456	69	397
Hook	D. W. Holden	518,452	Apr. 17	1771	439	67	356
Hook	J. D. Kellogg	517,221	Mar. 27	2499	588	66	1970
Hook	G. W. McMillan	516,897	Mar. 20	1929	455	66	1844
Hook	J. M. Reid	520,539	May 29	2781	672	67	1113
Hook and eye	H. Davidson	524,578	Aug. 14	1050	259	68	871
Hook and eye	J. H. Doyle	530,933	Dec. 18	1487	352	69	1517
Hook and eye	F. Meyers and M. Stoveken	519,612	May 8	1215	293	67	780
Hook and eye	G. S. Pearson	528,341	Oct. 30	2817	681	69	578
Hook and eye	J. F. Schoepl	521,391	June 12	1133	267	67	1418
Hook and eye	J. F. Schoepl	530,800	Dec. 11	1272	307	69	1462
Hook and eye	F. W. Wall	522,541	July 3	620	158	68	132
Hook and eye	H. S. Wedmore	528,700	July 31	2656	658	68	557
Hook or eye strip	J. H. Goodbody	529,550	Nov. 20	1865	443	69	1024
Hooks and eyes. Machine for making and carding	A. D. Major	525,914	Sept. 11	1036	{ 235 236 237 }	68	1352
Hooks and eyes upon rods. Machine for forming	C. Monahan	515,300	Feb. 20	2186	542	66	1296
Hooks for stretching curtains. Machine for making	F. Steinmann	517,775	Apr. 3	606	{ 149 150 }	67	117
Hoop:							
See Mast-hoop.							
Hoop-dressing machine	H. F. Campbell	519,401	May 8	849	205	67	715
Hoop flaring and bending machine	J. Pleukharp and T. Schramm	522,487	July 3	530	135	68	105
Hoop for barrels, &c	H. S. Hopper	523,281	July 17	1917	452	68	391
Hoop for boxes, &c	J. S. Dinkel	525,538	Sept. 4	376	91	68	1220
Hoop-making machine	D. C. Putnam	527,884	Oct. 23	2005	481	69	415
Hoop-mill attachment	F. L. Clark	525,135	Aug. 28	2029	496	68	1076
Hoop-skirt	J. L. and D. H. Coles	513,885	Jan. 30	3592	84	66	811
Hoop-cleaning machine	R. J. and J. P. Mackison	525,913	Sept. 11	1035	234	68	1352
Hop picking and separating machine	B. A. Weatherbee	526,594	Sept. 25	2204	{ 527 528 }	68	1594
Hop picking and separating machine	W. H. Clark	529,598	Nov. 20	1937	461	69	1038
Hop-picking machine	E. D. Mills and L. Emdin	524,333	Aug. 14	622	{ 151 152 }	68	793
Hop-torrefying apparatus	G. L. Jaeger	514,265	Feb. 6	501	{ 123 124 }	66	947
Hop-trier	E. C. Horst	513,789	Jan. 30	3433	847	66	779
Hopper of dressing or separating machines for flour, &c.	J. M. Rishworth, S. Ingham, and J. Vickers	513,250	Jan. 23	2585	{ 625 626 }	66	588
Hopple	H. McGuire	518,044	Apr. 10	1055	267	67	209
Hopple	J. Shepherd	516,316	Mar. 13	944	222	66	1646
Horse-blanket	A. F. Ransom. (Reissue)	11,427	July 3	685	174	68	133
Horse-blanket fastening	J. De Loney	522,882	July 10	1196	298	68	242
Horse-blanket pin	G. A. Wright and M. L. Jacoby	527,740	Oct. 16	1746	421	69	352
Horse-blauket safety device	W. D. Adams	523,966	Aug. 7	1	1	68	663
Horse-boot	J. Duffy	528,249	Oct. 30	2667	642	69	552
Horse-boot	W. Temple	520,193	May 22	2207	538	67	990
Horse-check. Automatic	W. C. H. Amende	513,629	Jan. 30	3176	780	66	732
Horse-checking device	P. T. Chalfant	516,365	Mar. 13	1044	248	66	1662
Horse-checking device	J. Davie	524,988	Aug. 21	1745	{ 426 427 }	68	1010
Horse-checking device	T. H. Shottenberg	528,698	Nov. 6	315	77	69	703
Horse checking or unchecking device	C. C. Wheeler	528,577	Nov. 6	92	23	69	663
Horse chin-check	T. Raymond	524,669	Aug. 14	1199	293	68	898
Horse-cover	E. H. Cooper	518,833	Apr. 24	2419	599	67	485
Horse cover fastening	P. M. Mishler	512,385	Jan. 9	1090	264	66	218
Horse-detacher	M. M. Benster	528,410	Oct. 30	2939	711	69	599
Horse-detacher	J. E. Berkstreser	531,015	Dec. 18	1635	358	69	1543
Horse-detacher	B. Blake	521,581	June 19	1482	347	67	1497
Horse-detacher	L. M. Bowers	524,241	Aug. 7	459	107	68	745
Horse-detacher	J. J. Rick and L. Larson	520,337	May 22	2454	595	67	1036
Horse-detacher and brake. Combined	A. H. Chilton	515,651	Feb. 27	2755	686	66	1417
Horse driver and governor	H. A. and C. S. Arnold	522,956	July 17	1349	335	68	287
Horse ice-creeper	W. Jones	513,936	Jan. 30	3655	901	66	825

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Horse-rake	C. S. Sharp	517,490	Apr. 3	124	27, 28	67	26
Horse-rake	C. S. Sharp	517,491	Apr. 3	128	28	67	26
Horse-stopping device	H. J. H. Toft	514,100	Feb. 6	196	45	66	891
Horses. Device for stopping runaway	C. Jagelitz	520,057	May 22	1949	477	67	944
Horses. Electric appliance for	G. R. King	516,740	Mar. 20	1687	399	66	1798
Horses' feet. Artificial frog for	L. C. Tiffany	511,918	Jan. 2	326	76	66	63
Horses from cribbing and wind-sucking. Device for preventing	T. Redmond	526,538	Sept. 25	2120	508	68	1579
Horses from running away. Device for preventing	N. Birtz	512,149	Jan. 2	694	168	66	133
Horses from vehicles in motion. Safety device for detaching	I. Briggs	524,987	Aug. 21	1744	426	68	1010
Horses. Hot-water bandages for treating	R. Bustin	530,085	Dec. 4	15	4	69	1217
Horseshoe	F. W. Bach	518,772	Apr. 24	2320	576	67	468
Horseshoe	Z. Birdsall	516,046	Mar. 6	514	119	66	1548
Horseshoe	O. E. Brown	524,055	Aug. 7	140	32	68	688
Horseshoe	W. F. Downey	521,645	June 19	1592	373	67	1517
Horseshoe	J. A. Elper	523,765	July 31	2770	687	68	577
Horseshoe	B. F. Fink	513,428	Jan. 23	2802	6-7	66	629
Horseshoe	J. E. James	524,681	Aug. 14	1218	297	68	902
Horseshoe	C. C. Jerome	514,753	Feb. 13	1303	325	66	1117
Horseshoe	T. N. Jones	514,934	Feb. 20	1588	398 399	66	1185
Horseshoe	W. J. Kent	530,643	Dec. 11	1019	249	69	1416
Horseshoe	W. J. Kent	530,644	Dec. 11	1022	249	69	1416
Horseshoe	W. R. Kinnear	514,011	Feb. 6	59	14	66	865
Horseshoe	L. La Veck	516,494	Mar. 13	1251	299	66	1702
Horseshoe	J. Maslen	529,930	Nov. 27	2482	598	69	1148
Horseshoe	M. E. Poupard	526,050	Sept. 18	1265	293	68	1407
Horseshoe	E. Richardson	530,797	Dec. 11	1268	306	69	1461
Horseshoe	A. W. Smith	517,176	Mar. 27	2426	571	66	1956
Horseshoe	J. H., J. R., and W. E. Smith	522,126	June 26	2437	586	67	1692
Horseshoe	G. G. Weissmann	512,778	Jan. 16	1773	421	66	363
Horseshoe. Bar	G. W. Wemple	522,770	July 10	1043	257	68	213
Horseshoe. Bar	G. W. Wemple	522,771	July 10	1044	258	68	213
Horseshoe-bars. Machine for making	W. J. Kent	518,608	Apr. 24	2024	503	67	416
Horseshoe-bending machine	H. E. Darby	513,455	Jan. 23	2365	703 704	66	641
Horseshoe-blanks. Machine for bending	W. J. Kent	518,609	Apr. 24	2025	503	67	416
Horseshoe-burnishing machine	W. Mason	523,989	Aug. 7	39	9	68	669
Horseshoe-calk	F. von Enlenfeld	516,788	Mar. 20	1750	412	66	1809
Horseshoe-calk	J. F. G. de Roussy de Sales	515,619	Feb. 27	2708	673	66	1478
Horseshoe-calk sharpener	A. B. Smith	521,513	June 19	1371	319	67	1478
Horseshoe. Combination rubber and steel	E. C. Scribner	518,863	Apr. 24	2460	609	67	493
Horseshoe. Elastic-tread	L. A. Anderson	526,671	Oct. 2	1	1	69	3
Horseshoe. Elastic-tread	J. H. Bowerman	513,871	Jan. 30	3567	878	66	807
Horseshoe. Elastic-tread	H. H. Gibbs	522,789	July 10	1072	265	68	218
Horseshoe. Elastic-tread	W. R. Howe	530,528	Dec. 11	812	202	69	1380
Horseshoe. Elastic-tread	A. Loeffler	526,631	Sept. 25	2266	542	68	1606
Horseshoe-fastening	L. P. Britt	512,358	Jan. 9	1036	253	66	208
Horseshoe-fastening	E. T. Covell	513,360	Jan. 23	2704	657	66	610
Horseshoe. Jointed	J. B. Haue	526,034	Sept. 18	1237	285	68	1402
Horseshoe-machine	J. A. Burden	524,307	Aug. 14	578	137 138	68	785
Horseshoe-nail clincher	O. Seeliger	512,228	Jan. 2	826	200	66	156
Horseshoe-nail machine	R. C. Lambert	530,596	Dec. 11	933	229	69	1402
Horseshoe-nails. Machine for making	J. A. Coleman	531,161	Dec. 18	1899	453 454	69	1591
Horseshoe. Nailless	G. Burgstaller	520,409	May 29	2567	621	67	1075
Horseshoe. Nailless	J. C. McCollum	517,013	Mar. 20	2119	501	66	1880
Horseshoe-pad	A. L. Grant	521,609	June 19	1537	360	67	1507
Horseshoe. Pneumatic-tread	H. J. Welch	513,662	Jan. 30	3237	794	66	742
Horseshoe. Sectional	E. Hogbin	519,453	May 8	928	224	67	730
Horseshoe. Sectional	M. E. Poupard	526,049	Sept. 18	1263	293	68	1406
Horseshoe. Segmental	M. E. Poupard	526,051	Sept. 18	1266	293	68	1407
Horseshoe-swaging machine	H. E. Darby	513,456	Jan. 23	2867	704	66	641
Horseshoes. Combination-tool for punching and creasing	J. Whalin	518,434	Apr. 17	1738	432	67	351
Horseshoes of aluminum. Manufacturing	C. C. Jerome	511,777	Jan. 2	54	14	66	13
Hose-bridge	H. Sandrock	519,136	May 1	347	82	67	605
Hose bridge and tower	J. Blake and E. F. Begiebing	515,278	Feb. 20	2139	532	66	1287
Hose bridge and tower	J. Blake and E. F. Begiebing	531,091	Dec. 18	1770	422	69	1567
Hose-cart	E. and L. Shay	521,868	June 26	1973	476	67	1607
Hose clamp	J. C. Barrett	520,386	May 22	2530	611	67	1052
Hose-clamp	S. J. Hart	513,322	Jan. 23	2642	641	66	599
Hose-coupling	A. L. Bailey	526,174	Sept. 18	1479	346	68	1444
Hose-coupling	P. J. Barrett	514,806	Feb. 13	1382	347	66	1132
Hose-coupling	S. M. Beery	519,829	May 15	1575	385	67	660
Hose-coupling	A. Bichet and H. O'Neill	527,764	Oct. 23	1790	431	69	378
Hose-coupling	J. S. Blackburn	511,992	Jan. 2	439	103	66	84
Hose-coupling	J. M. Cox	520,952	June 5	365	89	67	1264
Hose-coupling	J. Doster	528,929	Nov. 13	760	178	69	805
Hose-coupling	A. Hitt	524,679	Aug. 14	1215	296	68	901
Hose-coupling	W. Martin	525,854	Sept. 11	943	211	68	1335
Hose-coupling	W. Martin	525,855	Sept. 11	945	212	68	1335
Hose-coupling	R. F. O'Meara	515,788	Mar. 6	100	23	66	1472
Hose-coupling	J. M. Prior	517,192	Mar. 27	2456	577	66	1961
Hose-coupling	S. F. Whalen	528,051	Oct. 23	2310	557	69	471
Hose-coupling	N. W. Williams and E. B. Seely	523,522	Sept. 4	338	83	68	1214
Hose-coupling. Air-brake	J. R. Bragg and J. M. Moyers	515,142	Feb. 20	1912	480	66	1244
Hose-coupling band. Adjustable	E. R. Arthur	519,312	May 8	680	166	67	683
Hose coupling clamp	F. D. Taylor	517,128	Mar. 27	2341	552	66	1939
Hose cutting and mounting machine	J. P. Nolan and J. D. Connell	517,057	Mar. 27	2225	527	66	1915
Hose-fastening	A. L. Baily	515,893	Mar. 6	254	60	66	1501

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Hose in towers. Means for suspending	L. W. Hayes	530,415	Dec. 4	590	146	69	1323
Hose-leak stop or jacket	J. B. Cooper	518,805	Apr. 24	2377	588	67	477
Hose. Manufacture of	N. Lombard	513,793	Jan. 30	3445	850	66	782
Hose, &c. Manufacturing samples of	W. F. Bowers	530,678	Dec. 11	1079	262	69	1426
Hose-mender	E. Kempshall	512,252	Jan. 2	863	208	66	163
Hose-mender	A. Van Dyke	531,578	Dec. 25	2645	634	69	1748
Hose-nozzles. Portable and adjustable support for	W. A. Cain	518,986	May 1	81	21	67	551
Hose-reel	W. N. Casson	517,731	Apr. 3	531	129	67	103
Hose-reel	J. B. Hunter	521,796	June 26	1860	445	67	1585
Hose-reel	J. B. Hunter	528,597	Nov. 6	132	32	69	670
Hose to couplings. Apparatus for applying	P. Whyte	526,597	Sept. 25	2212	529	68	1595
Hosiery	S. Sills and J. E. Wood	517,593	Apr. 3	289	67	67	57
Hosiery cutting apparatus	I. Mossop	517,706	Apr. 3	495	118	67	95
Hosiery-fulfilling machine	F. A. Tanzer	513,600	Jan. 30	3123	767	66	723
Hot-air and hot-water heater. Combined	A. C. Mott	516,059	Mar. 6	532	{ 123 124 }	66	1551
Hot-air furnace	G. T. Finley	522,364	July 3	322	82, 83	68	63
Hot-air furnace	G. W. Fridrich	519,304	May 1	658	160	67	665
Hot-air furnace	H. J. Noyes	523,990	Aug. 7	40	10	68	669
Hot-air furnace	M. Rudert	524,653	Aug. 14	1175	289	68	894
Hot-air furnace	W. Ryan	520,087	Sept. 18	1333	310	68	1418
Hot-air heater	W. Heckert	526,316	Sept. 18	1727	408	68	1494
Hot-air pipe	C. Spindler, Jr.	527,734	Oct. 16	1738	419	69	351
Hot-air register	R. R. Buehler	521,973	June 26	2179	523	67	1645
Hot-air register	R. S. T. Cissel. (Reissue)	11,426	July 3	683	174	68	133
Hot-air register	W. M. Dyas	522,200	July 3	30	8	68	8
Hot-air register	E. A. Tuttle	526,848	Oct. 2	290	70	69	55
Hot-box indicator and oiler	A. F. Gregg	526,921	Oct. 2	425	105	69	79
Hot-water boiler	B. Etienne	518,592	Apr. 24	2002	496	67	412
Hot-water boiler	D. Munson	523,860	July 31	2942	{ 733 734 }	68	610
Hot-water boiler for heating purposes	T. Brooks, M. Reilly, and W. Rudkins.	528,026	Nov. 6	179	44	69	678
Hot-water-circulating apparatus	J. F. McElroy	513,050	Jan. 16	2219	532	66	445
Hot-water furnace	F. A. Gardner	529,121	Nov. 13	1070	253	69	861
Hot-water furnace	A. C. Mott	516,102	Mar. 6	588	138	66	1562
Hot-water heater	H. Eisert and R. B. Talcott	526,967	Oct. 2	488	120	69	92
Hot-water heater	A. O. Grassl	522,755	July 10	1021	253	68	208
Hot-water heater	J. F. Harrison	528,720	Nov. 6	343	83	69	709
Hot-water heater	W. L. Shepard	527,890	Oct. 23	2015	484	69	417
Hot-water heater	W. Vanderman	522,499	July 3	549	140	68	108
Hot-water heater	C. T. Wiley	512,138	Jan. 2	678	162	66	130
Hot-water heater or steam-generator	C. Phelps	514,026	Feb. 6	78	20, 21	66	869
Hot-water-heater regulator	J. K. Meschter	526,404	Sept. 25	1913	455	68	1510
Hotel-register	D. F. Riegler	526,581	Sept. 25	2185	522	68	1590
House:							
See Apartment-house. Milk-cooling house.							
Brick or terra-cotta house.							
House	D. H. Hibbert	531,032	Dec. 18	1663	{ 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	69	1548
House construction	S. Sanderson	522,856	July 10	1164	{ 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	68	236
House Movable	J. F. Rothwell	528,131	Oct. 23	2458	594	60	498
Household or kitchen implement	O. A. Hensel	530,268	Dec. 4	338	83	69	1277
Hub	C. G. Berger	513,258	Jan. 23	2551	614	66	581
Hub. Antifriction wheel	E. F. Moore	520,933	June 5	340	83	67	1259
Hub-attaching device	C. M. Graves	514,595	Feb. 13	1045	262	66	1067
Hub-attaching device	L. Harris	512,613	Jan. 9	1458	352	66	287
Hub-attaching device	F. J. Herman	529,053	Nov. 20	2069	495	69	1063
Hub-attaching device	S. Robinson	515,842	Mar. 6	177	43	66	1486
Hub-band	J. Maris	511,753	Jan. 2	63	15	66	15
Hub-band	J. Maris	522,225	July 3	87	20	68	17
Hub-blank-making machine	W. W. Tucker	527,907	Oct. 23	2042	{ 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 70		

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Hydrant	J. H. Pierce	517,061	Mar. 27	2233	529	66	1917
Hydrant. Street	H. Thomson	523,492	July 24	2297	578	68	474
Hydraulic compress	W. W. Bierce and A. Thomlinson	523,925	July 31	3053	762	68	631
Hydraulic compress. Steam	W. W. Bierce	523,924	July 31	3052	762	68	631
Hydraulic elevator	C. J. Dudley	518,491	Apr. 17	1824	452	67	366
Hydraulic elevator	E. S. Matthews	520,166	May 22	2161	526	67	981
Hydraulic elevator	J. Reichmann	522,030	June 26	2286	547 548	67	1664
Hydraulic elevator	J. G. Stamp	518,377	Apr. 17	1646	406 407	67	333
Hydraulic elevator	J. R. Wade	528,281	Oct. 30	2719	655 656	69	561
Hydraulic lift	H. Lubowski	513,800	Jan. 30	3446	850	66	782
Hydraulic motor	J. H. Boyd	525,130	Aug. 28	2014	492	63	1074
Hydraulic motor	E. C. Nichols	516,164	Mar. 6	690	162 163	66	1582
Hydraulic presses, shears, &c. Mechanism for controlling the operation of	E. W. Naylor	513,133	Jan. 23	2344	565	66	540
Hydrocarbon-burner	W. H. Ames	516,069	Mar. 6	545	127	66	1554
Hydrocarbon-burner	W. H. Ames	516,070	Mar. 6	547	127	66	1554
Hydrocarbon-burner	E. Betz	519,375	May 8	803	196	67	706
Hydrocarbon-burner	A. J. Blackford	518,305	Apr. 17	1492	373 374	67	306
Hydrocarbon-burner	H. Cluff	527,012	Oct. 2	556	136	69	105
Hydrocarbon-burner	D. W. Cole	512,245	Jan. 2	850	206	66	161
Hydrocarbon-burner	L. H. Cole and J. Bower	526,560	Sept. 25	2155	515	68	1584
Hydrocarbon-burner	C. E. Cookerly	531,289	Dec. 18	2139	512 513	69	1635
Hydrocarbon-burner	C. S. Edmonds	522,158	June 26	2500	600 601	67	1704
Hydrocarbon-burner	B. Kamps	527,695	Oct. 16	1677	404	69	339
Hydrocarbon-burner	P. J. Mullaney	515,837	Mar. 6	1677	41	66	1484
Hydrocarbon-burner	E. G. Mummery	516,872	Mar. 20	1886	446	66	1837
Hydrocarbon-burner	T. K. Nickerson	519,339	May 8	734	180	67	693
Hydrocarbon-burner	R. Reid	519,392	May 8	838	203	67	713
Hydrocarbon-burner	D. M. Somers	517,247	Mar. 27	2536	596	66	1977
Hydrocarbon-burner	J. Williams and G. A. Cummer	515,454	Feb. 27	2447	606 607	66	1356
Hydrocarbon-gas-black machine	P. F. Rerdon	523,945	July 31	3102	772	68	641
Hydrocarbon injector burner	F. M. Reed	518,897	Apr. 24	2528	625	67	507
Hydrocarbon-lighting system	B. L. Lawton	531,543	Dec. 25	2588	620	69	1736
Hydrocarbon-motor	J. H. Kuig st	524,945	Aug. 21	1667	408	68	994
Hydrocarbon-motor	E. I. Nichols	520,858	June 5	191	42	67	1231
Hydrocarbon-motors. Means or apparatus for effecting and controlling the supply of hydrocarbon to	J. E. Weyman and J. A. Drake	523,836	Nov. 6	580	137	69	751
Hydrocarbons. Apparatus for burning liquid	W. R. Pearson	526,737	Oct. 2	113	27	69	23
Hydrometer	H. S. Keating	524,944	Aug. 21	1666	408	68	994
Hypo-eliminator	A. Schmidt	530,965	Dec. 18	1545		69	1527
Ice and for refrigerating. Apparatus for manufacturing	J. Scheuercker	518,791	Apr. 24	2348	582	67	473
Ice. Apparatus for preparing water for the manufacture of	L. Block	529,356	Nov. 20	1487	358	69	958
Ice. Apparatus for subdividing blocks of	L. Pusey	530,127	Dec. 4	90	24	69	1332
Ice-breaker for tugs, &c	L. C. Bovy	515,739	Mar. 6	5	12	66	1456
Ice-cream cans. Protector for tops of	C. Nelson	527,711	Oct. 16	1695	408	69	343
Ice-cream freezer	J. B. Butler	521,013	June 5	468	112	67	1281
Ice-cream freezer	K. C. Edmunds	527,483	Oct. 16	1330	324	69	277
Ice-cream freezer	F. H. Fisk	525,340	Sept. 4	24	6	68	1155
Ice-cream freezer	C. H. A. Gerding	517,114	Mar. 27	2320	546	66	1935
Ice-cream freezer	C. Gooch	525,650	Sept. 4	543	132	68	1252
Ice-cream freezer	T. J. Harton	513,925	Jan. 30	3640	897	66	821
Ice-cream freezer	R. P. Jones	530,779	Dec. 11	1244	301	69	1457
Ice-cream freezer	J. Schaller	518,280	Apr. 17	1454	364	67	299
Ice-cream freezer	J. M. Skipper	517,492	Apr. 3	131	28, 29	67	27
Ice-cream freezer	F. M. Snook	522,806	July 10	1096	270	68	223
Ice-cream freezer	J. S. Stidham	516,947	Mar. 20	2017	477	66	1861
Ice-cream freezer	W. R. Thatcher	521,426	June 12	1195	284	67	1429
Ice-cream freezer	W. Vogt	518,829	Apr. 24	2113	597	67	484
Ice-cream freezer	L. and J. D. Wallace	523,781	July 31	2793	694	68	582
Ice-cream freezer	E. L. Weston	526,596	Sept. 25	2211	528	68	1595
Ice-cream freezer	J. W. Woodward	516,145	Mar. 6	659	154 155	66	1576
Ice-cream freezer and churn. Combined	I. T. Babbitt	527,313	Oct. 9	1047	273	69	208
Ice-cream mold and cutter. Combined	P. Winter	512,050	Jan. 2	588	140	66	112
Ice-creeper	J. K. Foy	512,608	Jan. 9	1452	351	66	285
Ice-creeper	J. R. Russell	521,821	June 26	1900	456	67	1593
Ice-cutter	J. G. P. Putnam	522,490	July 3	534	136	68	106
Ice-cutting machine	W. Butts	528,073	Oct. 23	2348	567	69	478
Ice-cutting machine	T. Cutler	523,317	July 17	1921	498	68	403
Ice-elevator plane	J. P. Smith	523,714	July 31	2687	666	68	562
Ice-grooving machine	C. E. Buckley	512,153	Jan. 2	712	173	66	136
Ice-handling implement	D. C. Ryder	525,923	Sept. 11	1055	239	68	1355
Ice-hook	M. B. Wesson	524,230	Aug. 7	445	105	68	743
Ice-lowering apparatus	C. I. Foster. (Reissue)	11,425	July 3	683	173	68	133
Ice-machine	W. L. Church and S. A. Reeve	529,341	Nov. 13	1457	352	69	932
Ice-machines. Freezing-plate for	C. S. Booth	525,733	Sept. 11	723	166	68	1296
Ice-machines. Pneumatic can-hoist for	C. A. MacDonald	517,468	Apr. 3	90	20	67	19
Ice-making apparatus	W. L. Church	529,344	Nov. 13	1463	352	69	933
Ice-making apparatus	W. L. Church	529,345	Nov. 13	1465	353	69	934
Ice-making apparatus	W. L. Church	529,346	Nov. 13	1469	353	69	934
Ice-making apparatus	W. L. Church	529,347	Nov. 13	1472	353	69	934
Ice-making apparatus	W. L. Church and S. A. Reeve	529,342	Nov. 13	1460	352	69	933
Ice-making apparatus	W. L. Church and S. A. Reeve	530,494	Dec. 4	741	182	69	1350
Ice-making apparatus	D. L. Holden and L. W. Serrell	530,527	Dec. 11	810	201	69	1380

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Ice making apparatus	J. Price and M. C. Bannister	525,156	Aug. 28	2062	503	68	1082
Ice-making can or vessel	G. E. Struck. (Reissue)	11,406	Mar. 20	2137	505	66	1884
Ice-making machine	W. L. Church and S. A. Reeve	529,313	Nov. 13	1462	352	69	933
Ice-manufacturing apparatus	D. L. Holden	530,526	Dec. 11	808	201	69	1370
Ice. Manufacture of artificial	R. M. Taylor	519,359	May 8	779	190	67	702
Ice. Means for preventing air-bubbles in	E. W. Richter	529,124	Nov. 13	1205	291	69	885
Ice-pick	H. A. Vanhouten	530,866	Dec. 11	1376	328	69	1481
Ice-rink	E. de Stoppani	515,979	Mar. 6	396	92	66	1526
Ice-rink	F. Unsöld	530,367	Dec. 4	516	{ 127 128 }	69	1309
Ice-severing device.	L. Pusey	525,028	Aug. 28	1831	447	68	1042
Ice-shaver	I. L. Egner	525,195	Aug. 28	2132	520	68	1003
Ice shaver and pick	W. M. Seaman	526,585	Sept. 25	2192	524	68	1592
Ice-shaving machine.	C. E. Reid	530,652	Dec. 11	1038	253	69	1419
Ice-tongs	E. Burch	526,559	Sept. 25	2155	515	68	1584
Ice-tongs	J. Heffner and A. E. Disher	525,076	Aug. 28	1924	471	68	1058
Ices. Coin-actuated automatic mechanism for the delivery of	H. Y. Dickinson and A. G. Macculloch.	517,847	Apr. 10	715	180	67	153
Iceing to pastry. Apparatus for applying	A. A. Strohecker and J. Hutton	531,398	Dec. 25	2330	556	69	1687
Identification device	J. Saudek	513,150	Jan. 23	2370	572	66	545
Igniting device for gas or lamp burners or oil or gas stoves.	B. G. Olson	512,315	Jan. 9	966	236	66	193
Illusion apparatus	P. Rosenzwey	530,128	Dec. 4	91	24	69	1232
Illusory apparatus.	A. Lake	523,357	July 24	2047	514	68	432
Impact-tool	J. F. Clement	522,511	July 3	571	147	68	113
Implement. Compound pocket	J. C. Schlarbaum	515,973	Mar. 6	388	90	66	1525
Impounding débris and storing water. Method of and means for	H. W. R. Strong	528,823	Nov. 6	547	{ 130 131 }	69	745
Incandescent elements. Composition for	T. C. Crawford and L. K. Böhm	516,080	Mar. 6	561		66	1557
Incandescent elements. Making	T. C. Crawford and L. K. Böhm	516,079	Mar. 6	560		66	1557
Inclined surfaces. Device for supporting workmen or objects on	D. Norton	530,548	Dec. 11	852	210	69	1386
Incubator	M. G. Benton and G. J. Nissly	530,676	Dec. 11	1075	261	69	1425
Incubator	W. J. Clark	512,577	Jan. 9	1406	339	66	277
Incubator	C. A. Cyphers	530,163	Dec. 4	147	39	69	1242
Incubator	H. R. Davis	519,244	May 1	551	{ 134 135 }	67	644
Incubator	S. Q. Duncan	520,181	May 22	2185	{ 532 533 }	67	936
Incubator	L. Kuhner	514,024	Feb. 6	172	40	66	886
Incubator	J. R. Roberts	515,554	Feb. 27	2605	645	66	1387
Incubator	J. E. Stanley	530,907	Dec. 11	1439	342	69	1492
Incubator	A. Wickey	530,567	Dec. 11	888	218	69	1393
Incubator heat-regulating valve	H. W. Jacoby	516,491	Mar. 13	1246	299	66	1701
Incubators. Heat-regulator for	J. R. Davis	525,490	Sept. 4	285	71	68	1204
Incubators. Thermostatic regulator for	G. Ertel	518,522	Apr. 17	1882	466	67	376
Index	W. H. Schnyler	513,343	Jan. 23	2675	648	66	605
Index	J. E. Spears	521,324	June 12	1015	239	67	1394
Index	P. P. Sweitzer	519,622	May 8	1242	298	67	785
Index. Ledger.	T. A. Uten	520,096	May 22	2020	493	67	957
Index or display device	J. A. Fischer	530,987	Dec. 18	1586	376	69	1533
Index purposes. Slip-cutter for	A. J. Rudolph	516,119	Mar. 6	614	143	66	1567
Index. Telephone.	A. N. Webb	513,164	Jan. 23	2391	577	66	549
Indexes. Manufacturing	R. L. Brown	529,477	Nov. 20	1731	412	69	1000
Indicating-machine	M. H. Tomkins	523,735	July 31	2719	{ 673 674 }	68	568
Indicator:							
See Bicycle speed-indicator.	Length-indicator.						
Car-indicator.	Light-indicator.						
Door-indicator.	Micrometer-indicator.						
Electric indicator.	Note-indicator.						
Electric-current indicator.	Office-indicator.						
Electrical indicator.	Office-door indicator.						
Elevator-indicator.	Railway time-indicator.						
Engine-indicator.	Station-indicator.						
Engine-shaft-rotation indicator.	Street-indicator.						
Fare-indicator.	Street or station indicator.						
Hot-box indicator.	Train time-indicator.						
Indicator	Turn-indicator.						
Indicator-lock	J. B. Scott	531,572	Dec. 25	2634	631	69	1745
Indicator-springs and steam-gages. Apparatus for testing	J. M. Edgar	512,169	Jan. 2	736	178	66	140
Induction-coil	R. C. Carpenter	519,235	May 1	535	129	67	641
Influence-machine	C. L. Jaeger	524,636	Aug. 14	1150	282	68	890
Infusions and maintaining supplies of hot water or liquid. Apparatus used in making	H. F. Waite	514,524	Feb. 13	916	232	66	1043
Ingot-extracting apparatus	J. Childs and C. J. Jones	521,229	June 12	849	{ 198 199 }	67	1364
Ingot-extracting apparatus	H. Aiken and F. W. Wood	526,094	Sept. 18	1342	312	68	1420
Ingot-extracting apparatus	T. R., Sr., and W. H. Morgan	520,798	June 5	73	15, 16	67	1210
Ingot-extractor	H. Aiken	526,093	Sept. 18	1341	{ 311 312 }	68	1420
Ingot-extractor	H. Aiken	526,095	Sept. 18	1315	312	68	1421
Ingot-mold	J. Illingworth	520,923	June 5	319	77	67	1255
Inhaler	A. M. Adsit	514,298	Feb. 6	562	141	66	959
Inhaler	M. A. Boesger and F. V. Dotterweich	530,321	Dec. 4	430	167	69	1293
Inhaler	J. F. Chesebro	523,265	July 17	1895	477	68	387
Inhaler	J. J. Hartnett	513,924	Jan. 30	3640	897	66	821
Inhaler	T. G. H. Nicholson	516,401	Mar. 13	1096	261	66	1672
Inhaler	S. D. Ross	529,808	Nov. 27	2273	542	69	1109
Inhaler	W. H. Russell and H. C. Earl	516,448	Mar. 13	1177	282	66	1688
Inhaler	E. Souchon	531,476	Dec. 25	2477	590	69	1714
Inhaler	W. B. Spencer	513,153	Jan. 23	2376	573	66	546

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Inhaler. Electric	R. L. Larcom	512,723	Jan. 16	1645	395	66	338
Inhalers. Apparatus for heating air for	W. S. McLean	514,022	Feb. 6	72	18	66	867
Inhaling apparatus	A. L. Lönnerberg	526,906	Oct. 2	400	100	69	74
Inhaling apparatus	W. Scheerer	516,841	Mar. 20	1839	435	66	1,228
Inhaling apparatus. Vapor.	E. Madden	513,804	Jan. 30	3453	851	66	784
Inhaling-cabinet	R. E. Lee	529,279	Nov. 13	1355	325	69	912
Injector	R. G. Brooke	523,926	July 31	3055	763	68	631
Injector	P. Brownley	513,378	Jan. 23	2732	664	66	615
Injector	F. Brunbauer, (Reissue).	11,456	Dec. 11	1452	345	69	1495
Injector	J. Desmond	526,918	Oct. 2	421	104	69	78
Injector	W. E. Dodge	530,476	Dec. 4	686	172	69	1341
Injector	L. E. Hogue	515,683	Feb. 27	2813	701	66	1429
Injector	P. P. Hogue	527,493	Oct. 16	1341	327	69	279
Injector	W. R. Park	524,685	Aug. 14	1224	299	68	903
Injector	J. Morrison	514,093	Feb. 6	188	43	66	898
Injector	A. Simpson and M. Speicher	516,231	Mar. 13	817	191	66	1621
Injector	E. J. Young	516,387	Mar. 13	1076	256	66	1668
Injector, Air	J. G. Stamp	517,629	Apr. 3	350	83	67	68
Injector-burner	W. B. Wright	524,369	Aug. 14	708	172	68	807
Injector. Steam	J. Desmond	513,559	Jan. 30	3064	754	66	711
Ink	E. Nienstaedt	523,863	July 31	2945	68	61	711
Ink-distributor	J. Waterston	516,620	Mar. 13	1466	347	66	1742
Ink-feeder	M. J. Dolphin	517,036	Mar. 27	2176	515 516	66	1907
Ink-fountain	O. M. Moore	512,562	Jan. 9	1385	334	66	274
Ink-making device	G. Wexler and E. Nienstaedt	517,371	Mar. 27	2740	646	66	2018
Ink. Manufacture of printing	J. and J. Bibby	519,032	May 1	153	67	565	
Ink-roller-brake attachment	F. Meier	529,932	Nov. 27	2484	599	69	1148
Inkstand	W. Hubbard	518,036	Apr. 10	1029	260	67	206
Inkstand	C. E. Jewell	517,384	Mar. 27	2,003	654	66	2029
Inkstand	F. B. Pratt	528,802	Nov. 6	499	121	69	737
Inkstand	T. S. Shenston	528,813	Nov. 6	516	124 125	69	740
Inkstand	C. B. Smith	526,059	Sept. 18	1279	296	68	1409
Inkstand	L. N. Thomas	531,345	Dec. 25	2240	535	69	1669
Inkstand bracket	A. Conkling	526,382	Sept. 25	1851	441	68	1531
Inkstand. Pneumatic	C. A. Sigelen	531,474	Dec. 25	2474	5, 9	69	1714
Inkstand. Self-feeding	C. B. Smith	512,386	Jan. 9	1001	245	66	801
Ink-well	W. B. Pratt	530,796	Dec. 11	1267	306	69	1461
Ink-well. Fountain	W. S. Russell	523,010	July 17	1438	359	68	302
Inking device for duplicating manuscripts	J. O. Deckert	523,737	July 31	2721	674	68	569
Inlaid work for decorative purposes	H. A. Cousins	526,343	Sept. 18	1768	420	68	1502
Inlating metal goods with tortoise-shell or celluloid	H. F. L. Anmont	530,817	Dec. 11	1297	313	69	1467
Inslam-trimming machine	A. P. Hanscom and A. C. Spencer	530,020	May 15	1881	460	67	916
Insect-guard for doors	H. L. Long	524,596	Aug. 14	1074	265	68	876
Insect-powder distributor	S. E. Hotchkiss	519,471	May 8	967	233	67	735
Insect-powder distributor	C. H. Leggett	511,781	Jan. 2	60	15	66	14
Insect-powder distributor	H. G. Schumacher	511,805	Jan. 2	90	23	66	20
Insect-powder duster	T. Nägele	522,301	July 3	221	59	68	44
Insect-powder-dusting machine	F. Lousaw and T. E. Clarke	531,320	Dec. 25	2198	526	69	1661
Insect screen and trap	R. J. and R. S. A. Tarbell	515,561	Feb. 27	2615	649	66	1389
Insect-trap	L. M. Long	514,946	Feb. 20	1605	403	66	1189
Insect-trap	A. Y. Smith	514,388	Feb. 6	691	174	66	983
Insect-trap for trees, &c	A. F. Carlson	529,643	Nov. 20	2007	480	69	1051
Insecticide	C. A. Brudelele	527,234	Oct. 9	910	69	185	
Insecticide	L. and E. Brumleu	530,010	Nov. 27	2651	69	1182	
Insecticides or similar substances. Apparatus for applying	G. Boas	514,253	Feb. 6	484	118	66	944
Insole	W. W. Glanville	511,942	Jan. 2	363	85	66	69
Insole for slippers	A. Sessler	525,746	Sept. 11	737	171	63	1299
Insole-grooving machine	G. A. Cole and E. H. Taylor	521,583	June 19	1485	347 348	67	1498
Insulated armature-coil	J. H. Shugg	522,859	July 10	1168	292	63	237
Insulated conductor	C. N. Waite	512,417	Jan. 9	1146	278	66	228
Insulated electric conductor	J. Robinson	529,412	Nov. 20	1605	381	69	979
Insulated electric conductor. Waterproof	D. Macfarlan	524,066	Aug. 7	163	38	68	692
Insulated pipe-coupling	E. E. Clift	514,304	Feb. 6	575	143	66	961
Insulated pipe-coupling	G. Peebles	515,716	Feb. 27	2869	715	66	1438
Insulated rail-chair	L. McCarthy	513,950	Jan. 30	3681	906	66	830
Insulating block	H. P. Ball	523,653	July 31	2557	641	68	541
Insulating composition	J. L. Truslow, Jr.	522,745	July 10	1001	68	205	
Insulating compositions for electrical purposes. Manufacturing	A. N. Ford	530,517	Dec. 11	797	69	1477	
Insulating compound	A. Gentzsch	517,452	Apr. 3	67	67	15	
Insulating compound	O. Stiles	528,744	Nov. 6	384	69	716	
Insulating-covering for refrigerative purposes	G. T. Voorhees	530,214	Dec. 4	244	69	1260	
Insulating electric wires. Material for	G. A. Cannot	515,192	Feb. 20	1992	66	1259	
Insulating-joint	E. F. Genuert	514,822	Feb. 13	1407	355	66	1137
Insulating material into conduits. Means for introducing	D. Brooks, Jr.	519,171	May 1	418	101	67	618
Insulating material. Manufacturing	A. F. Tinnerholmand C. F. Peterson	522,242	July 3	115	27	63	22
Insulating-support. Bus-bar	A. B. Herrick	525,708	Sept. 11	678	157	68	1288
Insulating-thimble	I. A. Brown	515,321	Feb. 27	2233	553	66	1317
Insulating trolley-wire support	F. M. Zimmerman	524,232	Aug. 7	447	105	68	743
Insulating-tube	M. Robinson	517,591	Apr. 3	287	66	67	57
Insulating turnbuckle	H. P. Ball	518,213	Apr. 17	1349	336	67	279
Insulating-turnbuckle	H. H. Luscomb	524,467	Aug. 14	870	215	68	838
Insulating-turnbuckle	L. McCarthy	524,684	Aug. 14	1222	298 299	68	903
Insulator	J. M. Andersen	522,175	June 26	2538	607	67	1710
Insulator	L. W. Bradley	525,001	Aug. 28	17, 3	435	68	1033
Insulator	E. J. Bullock	527,317	Oct. 9	1053	255	69	210
Insulator	C. E. Conover	520,412	May 29	2569	622	67	1075
Insulator	L. B. Gray	514,221	Feb. 6	427	103	66	932

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Insulator	C. N. Hammond	524,850	Aug. 21	1514	370	68	968
Insulator	F. M. Locke	520,367	May 22	2503	605	67	1047
Insulator	H. H. Luscomb	520,602	May 29	2889	698	67	1134
Insulator	R. Mace	522,428	July 3	451	114	68	90
Insulator	L. McCarthy	517,621	Apr. 3	335	79	67	66
Insulator	L. McCarthy	520,606	May 29	2895	699	67	1135
Insulator	L. McCarthy	530,706	Dec. 11	1121	272	69	1433
Insulator	L. McCarthy	531,423	Dec. 25	2373	568	69	1695
Insulator	W. D. Trimble	527,254	Oct. 9	941	228	69	190
Insulator	G. H. Winslow	524,659	Aug. 14	1133	291	68	896
Insulator. Electric-conductor	J. H. Croskey and J. Locke	530,399	Dec. 4	567	141	69	1319
Insulator. Electric-railway crossing	H. B. Nichols and F. H. Lincoln	523,172	July 17	1733	434	68	357
Insulator. Feed-wire	C. A. Lieb	520,855	June 5	187	41	67	1231
Insulator for electric conductors	G. Webster	526,472	Sept. 25	2029	483	68	1561
Insulator for electric overhead construction	H. P. Ball	530,498	Dec. 11	750	184	69	1369
Insulator for electric wires. Supporting	L. S. Beardsley	524,100	Aug. 7	220	51	68	702
Insulator-pin	E. J. Bullock	527,318	Oct. 9	1051	255	69	210
Insulator-pi	G. H. Winslow	517,634	Apr. 3	391	85, 86	67	71
Insulator. Section	H. M. Brockbank	511,928	Jan. 2	344	80	66	65
Insulator. Section	A. Hennefeld, C. Dehner, and C. H. Van Ness	529,616	Nov. 20	1963	467	69	1043
Insulator. Section	H. B. Nichols and F. H. Lincoln	521,124	June 5	657	155	67	1315
Insulator. Strain	H. H. Luscomb	515,779	Mar. 6	88	21	66	1470
Insulator. Strain	L. McCarthy	518,373	Apr. 17	1638	404	67	332
Insulator. Trolley-wire	H. H. Luscomb	512,888	Jan. 16	1964	466	66	399
Insulator. Trolley-wire	L. McCarthy	518,071	Apr. 10	1092	276	67	216
Insulators supporting same. Fixing electric conducting-wires to	R. Schomburg	515,448	Feb. 27	2438	604	66	1355
Integrating apparatus	E. N. Connet and W. W. Jackson	529,365	Nov. 20	1508	{ 362 363 }	69	961
Interlocking safety-switch	B. W. Sweet	526,547	Sept. 25	2134	{ 511 512 }	68	1581
Intestine-cleaner	W. F. Duncker	525,455	Sept. 4	536	58	68	1194
Intrenching-tool	G. E. Albee	515,568	Feb. 27	2625	653	66	1391
Invalid-chair	S. A. Potter	531,330	Dec. 25	2212	530	69	1664
Invalid-chair	O. L. Smith-Fraser	521,463	June 19	1281	298	67	1461
Invalid-lifting apparatus	W. E. Goulding	528,475	Oct. 30	3051	740	69	620
Invalid rest	C. H. Parliaman	513,246	Jan. 23	2528	610	66	576
Invalid's table and desk. Combined	F. G. Koehler and H. G. Hartmann	525,554	Sept. 4	397	96	68	1225
Iron:							
See Curling-iron. Smoothing and pressing							
Hair-crimping iron. iron.							
Laundry-iron. Soldering-iron.							
Sad-iron.							
Iron and albumin. Making compounds of	O. Schmied-berg	523,688	July 31	2633		68	553
Iron. Apparatus for breaking pig	J. S. Kennedy	520,685	May 29	3037	735	67	1160
Iron-breaking machine. Pig	C. L. Miller and J. R. George	518,416	Apr. 17	1703	{ 422 423 }	67	344
Iron. Carburizing	J. Meyer	524,904	Aug. 21	1590		68	962
Iron into steel. Converting cast	W. N. Taggart	525,296	Aug. 28	2285		68	1124
Iron. Manufacturing oxide of	H. W. Hemingway	513,679	Jan. 30	3261	801	66	747
Iron. Tool for making curves or other forms in Venetian	M. H. Hulbert	518,816	Apr. 24	2396	592	67	461
Iron or steel. Process of and apparatus for the manufacture of	R. M. Hunter	528,943	Nov. 13	787	184	69	810
Iron ore and making same. Agglomerated	R. H. Sanders	516,710	Mar. 20	1628		66	1788
Iron-plate-pickling apparatus	J. Williams and G. L. Morris	512,784	Jan. 16	1781	423	66	364
Iron. Refining	A. E. Barton and G. B. McCormack	519,902	May 15	1691		67	882
Ironing-board	J. W. Hiett and T. C. Cole	522,058	June 26	2328	559	67	1672
Ironing-board	J. H. Kinley and W. P. Shuey	523,355	July 24	2045	514	68	431
Ironing-board	J. Y. Moore	519,410	May 8	863	209	67	717
Ironing-board attachment	R. N. Boston	528,846	Nov. 6	597	141	69	755
Ironing-machine	D. H. Benjamin	529,695	Nov. 27	2091	501	69	1077
Ironing-machine	H. F. Gray	528,091	Oct. 23	2384	575	69	485
Ironing-machine	S. A. Pratt	528,966	Nov. 13	853	202	69	822
Ironing-machine	A. R. Selden	513,687	Jan. 30	3273	{ 805 806 }	66	750
Ironing-machine	H. E. Smith	514,137	Feb. 6	249	60	66	901
Ironing-machine	H. E. Smith	519,974	May 15	1810	444	67	903
Ironing-machine	F. C. Wendell	518,871	Apr. 24	2470	612	67	495
Ironing-machine	F. C. Wendell	518,872	Apr. 24	2474	{ 612 613 }	67	496
Ironing-machine	M. E. Wendell	514,049	Feb. 6	119	28	66	876
Ironing-machine. Garment	W. Choen	517,328	Mar. 27	2673	627	66	2004
Ironing-table	R. F. Coleman	529,481	Nov. 20	1737	414	69	1001
Ironing-table	J. Green	520,183	May 22	2190	533	67	967
Ironing-table	E. Hayward	524,275	Aug. 7	515	120	68	754
Ironing-table	W. H. H. Marcum	516,273	Mar. 13	883	207	66	1634
Ironing-table	J. M. Moore	515,869	Mar. 6	218	51	66	1494
Ironing-table clamp	I. H. Kaufmann and M. Nimeroff	531,316	Dec. 25	2193	525	69	1660
Ironing-table. Folding	T. J. Brown	512,576	Jan. 9	1404	339	66	277
Ironing-table folding frame	S. Bettag	512,794	Jan. 16	1795	427	66	366
Irrigator. Grave-mound or flower-bed Jack	R. R. Dumm	524,433	Aug. 14	818	200	68	828
See Bootjack. Lifting-jack.							
Carjack. Lifting or log jack.							
Carriage or wagon jack. Pneumatic jack.							
Jack. Railway-track jack.							
Floor-jack. Track-jack.							
Heel-nailing-machine jack. Wagon-jack.							
Jack	J. Barrett	511,923	Jan. 2	335	79	66	64
Jack	J. Barrett	527,102	Oct. 9	691	{ 170 171 }	69	145

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Jack	R. J. Thompson	511,867	Jan. 2	195	48	66	41
Jack for supporting or bracing excavators, &c.	G. W. King	512,585	Jan. 9	1418	342	66	279
Jack-screw	J. D. Lynch	514,091	Feb. 6	186	42	66	889
Jacquard hooks. Machine for bending	R. C. Manville	515,347	Feb. 27	2272	563 564	66	1324
Jail construction	D. Salfeld and H. Kohlberg	516,450	Mar. 13	1180	283	66	1688
Jail-grate	T. A. Taylor	512,763	Jan. 16	1752	415	66	358
Jalousies. Band or cord self-acting uproller on	S. Stahl	521,276	June 12	923	219	67	1378
Japanning-furnace	P. J. Pauly, Jr.	530,549	Dec. 11	853	210	69	1387
Jar:							
See Drill-jar.	Preserving-jar.						
Fruit-jar.	Tobacco-jar.						
Jar-closure	C. E. Long	530,190	Dec. 4	200	49	69	1251
Jar cover. Fruit-	V. Biart	531,253	Dec. 18	2071	495	69	1621
Jar fastener. Fruit-	N. H. Long	517,410	Mar. 27	2846	666	66	2038
Jar-fastening	R. S. Carr	517,433	Apr. 3	18	4	67	6
Jar-fastening	R. I. Patterson	515,010	Feb. 20	1702	427	66	1207
Jar fastening. Preserve or fruit-	F. W. and P. C. A. Hofmann	523,206	July 17	1791	449	68	368
Jar-holder	J. A. Parry	516,166	Mar. 6	693	163	66	1583
Jar rack or holder. Fruit-	A. F. Frost	517,380	Mar. 27	2758	649	66	2021
Jar-top straightener. Fruit-	J. T. Pinnell	523,082	July 17	1546	387	68	324
Jewel-piping machine	D. H. Church	522,046	June 26	2311	554 555	67	1669
Jewel-setting-machine feeder	W. Rundquist	519,027	May 1	141	35	67	563
Jeweler's press	C. M. and G. W. Adams	530,915	Dec. 18	1463	347	69	1513
Jeweling-tool	J. S. Kling	512,653	Jan. 9	1534	368	66	302
Jewelry and small ware. Producing reflecting prop- erties in	J. Esser	513,312	Jan. 23	2629	638	66	596
Jewelry safety device	J. Bonner	527,358	Oct. 9	1117	273	69	222
Jewelry-setting	Z. A. Oppenheimer	529,184	Nov. 13	1490	286	69	882
Jib-sprit	G. Hook	522,524	July 3	593	152	68	117
Jigs. Plunger-worker for concentrating	O. Abeling	520,287	May 22	2368	575	67	1020
Jockey-plate	O. Taber	512,338	Jan. 9	1004	245	66	201
Joint:							
See Ball- and-socket	Furniture-joint.						
joint.	Pipe-joint.						
Boiler-tube joint.	Rail-joint.						
Compression-joint.	Railway-rail joint.						
Drawbridge-joint.	Sewer-pipe joint.						
Electric-cable joint.	Stovepipe-joint.						
Felly-joint.	Tie-joint.						
Flexible joint.	Toggle-arm joint.						
Folding joint.	Wheel-rim joint.						
Joint and bearing	W. C. Rarig	523,238	July 17	1843	464	68	377
Joint for and method of joining metal bars	W. M. Brown	526,434	Sept. 25	1965	468	68	1550
Joint for articles of wood	W. E. Gage	525,387	Sept. 4	116	30	68	1171
Joint-plate and burr-holder	F. Herman	515,224	Feb. 20	2050	511	66	1269
Joints. Means and method of maintaining tight	E. Stowell	515,887	Mar. 6	239	56	66	1498
Joints. Tube for use in expansion	B. Hall	530,305	Dec. 4	403	101	69	1288
Joints with metal clamps. Machine for making	J. Temler	515,028	Feb. 20	1734	438	66	1211
Jointer-guard. Automatic	C. A. Daly	519,698	May 15	1364	330	67	820
Joist-crowning machine	F. J. Randall	519,682	May 8	1338	323	67	802
Joist-hanger	H. A. Goetz	522,829	July 10	1132	281	68	229
Joist support. Continuous metal	W. H. Drake	526,302	Sept. 18	1707	402	68	1489
Journal-bearing	W. J. and J. J. Carter	520,295	May 22	2377	577	67	1022
Journal-bearing	I. Corneliusen	525,338	Sept. 4	22	5	68	1155
Journal-bearing	I. Corneliusen	531,410	Dec. 25	2348	560	69	1690
Journal-bearing	D. J. Davis	526,026	Sept. 18	1223	282	68	1399
Journal-bearing	A. C. Farnsworth and C. E. Roberts	527,016	Oct. 2	563	137	39	106
Journal-bearing	J. L. Jönsson	530,274	Dec. 4	347	86	69	1279
Journal-bearing	A. W. Kirsch-King	529,554	Nov. 20	1869	444	69	1025
Journal-bearing	D. I. Lybe	524,065	Aug. 7	164	38	68	692
Journal-bearing	E. C. Sendelbach and J. N. Wilkins	527,026	Oct. 2	580	110	69	110
Journal-bearing	J. J. Wood	513,696	Jan. 30	3290	810 811	66	753
Journal-bearing. Adjustable	L. Hollingsworth	526,131	Sept. 18	1408	328	68	1433
Journal-bearing. Adjustable	E. W. McGuire	514,331	Feb. 6	611	155	66	967
Journal-bearing. Antifriction	T. Voegtli	524,920	Aug. 21	1624	398	68	987
Journal-bearing. Axle	J. P. Metzger	514,484	Feb. 13	849	216 217	66	1031
Journal-bearing lubricator	F. C. Wolf and G. Daniels	512,423	Jan. 9	1156	280	66	230
Journal-bearing. Railway-axle	J. P. Metzger	514,485	Feb. 13	851	217	66	1031
Journal-bearing. Revolvable sectional	W. J. Tripp	531,483	Dec. 25	2455	592	69	1716
Journal-bearing. Roller	H. C. S. Lutz	511,963	Jan. 2	397	92	66	76
Journal-bearings. Adjusting device for	W. K. Millholland	512,984	Jan. 16	2123	504	66	427
Journal-box	F. G. Botsford	513,075	Jan. 23	2250	543	66	520
Journal-box	G. W. Laey	516,311	Mar. 13	936	220	66	1644
Journal-box	W. W. Wainwright	525,774	Sept. 11	786	181	68	1307
Journal-box	W. W. Wainwright	525,775	Sept. 11	787	182	68	1307
Journal-box	H. B. Williams	526,336	Sept. 18	1757	417	68	1500
Journal-boxes. Device for adjusting	J. A. Sanford	514,837	Feb. 13	1436	361	66	1143
Journal-box for dredging or like machinery	A. W. Robinson	523,407	July 24	2134	536	68	447
Journal-box. Oil-drawer	J. H. Surtin	517,776	Apr. 3	607	150	67	118
Journal-boxes. Means for setting up	W. W. Hunt	512,826	Jan. 16	1852	438	66	377
Journal-head for rolls	D. L. McCorkindale	527,708	Oct. 16	1693	408	69	342
Journal-lubricator	P. Knauer	522,838	July 10	1145	283	68	232
Journals of mixing machines. Device for preventing leakage about	F. Westerman	528,050	Oct. 23	2308	556	69	471
Jug	G. W. Spring and G. W. Printz	524,226	Aug. 7	438	103	68	741
Jug or jar	J. M. Pettit and J. W. Watt	526,940	Oct. 2	453	111	69	85
Jug or jar	P. P. Wilbur	529,574	Nov. 20	1904	454	69	1032
Jugs, &c. Mount for	W. Fryer and F. A. Coles	526,104	Sept. 18	1361	316	68	1424
Jute or other bagging. Treating	A. Lehman and C. J. Kraus	518,549	Apr. 17	1925	.....	67	383
Keg or analogous package	F. H. Waite	519,486	May 8	992	210	67	733

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g	Vol.	Page.
Key-rolling machine	W. Arnemann	518,389	Apr. 17	1661	410	67	336
Kettle	G. W. and J. J. Cisco, Jr.	524,191	Aug. 7	379	90	68	730
Kettle	J. J. Kuck	523,532	July 24	2363	593	68	487
Kettle and furnace. Combined rendering	T. Cascaden, Jr.	522,586	July 10	707	180	68	154
Kettle attachment	P. Rusco	516,991	Mar. 20	2089	494	66	1874
Kettle. Cooking.	B. C. Sabin	525,924	Sept. 11	1057	240	68	1335
Key:							
See Can-key. Telegraph-key.							
Extension-key.							
Key-fastener	F. E. Allen	525,175	Aug. 28	2109	512	68	1089
Key-fastener	F. J. Loudin	512,308	Jan. 9	954	233	66	193
Key-fastener	J. F. Varrell	525,371	Sept. 4	90	23	68	1167
Key-holder	J. F. Waeseh	516,320	Mar. 13	948	223	66	1647
Key-instruments. Sound recording and reproducing attachment for	C. W. Nyström	520,894	June 5	258	61, 62	67	1244
Key-register	W. H. Thompson	527,351	Oct. 9	1103	269	69	219
Key-ring	P. L. V. Thiery	523,057	July 17	1515	379	68	318
Key-ring and cigar-cutter. Combined.	E. B. Aignier	529,577	Nov. 20	1909	455	69	1033
Key-seating machine	G. J. Costello	512,808	Jan. 16	1823	432	66	372
Key-seating machine	W. P. Davis	518,023	Apr. 10	1011	251	67	203
Keys from windows. Device for lowering	L. B. Mills	516,871	Mar. 20	1884	446	66	1837
Keyboard	Z. G. Sholes	527,542	Oct. 16	1425	347	69	293
Keyboard mechanism for playing upon stringed instruments.	E. J. DeVlaminck	521,851	June 26	1943	466 467	67	1600
Keyboard. Movable.	L. J. M. Duvivier	522,048	June 26	2315	555 556	67	1669
Keyboard. Transposing.	A. Marcy	517,874	Apr. 10	745	187	67	158
Keyboards by means of perforated cards. Mechanism for actuating	C. Gavioli	531,413	Dec. 25	2352	561 562	69	1691
Keyhole-guard	J. A. Giese	528,667	Nov. 6	263	65	69	693
Keyhole-guard	M. A. Linder	528,952	Nov. 13	802	187	69	813
Keyhole-guard	G. W. Schumacher	530,206	Dec. 4	226	56	69	1256
Keyhole-guide	J. L. Easley	516,086	Mar. 6	571	133	66	1559
Kiln:							
See Bone-black kiln. Drying-kiln.							
Brick-kiln. Limekiln.							
Brick and tile kiln. Malt-kiln.							
Continuous kiln. Muffle-kiln.							
Downdraft-kiln. Pottery-kiln.							
Dry-kiln.							
Kiln	A. E. Detwiler	516,629	Mar. 13	1487	353	66	1745
Kiln	F. Halbeisen	520,641	May 29	2948	713	67	1144
Kiln	W. S. Williams	531,242	Dec. 18	2053	490	69	1618
Kiln for baking bricks, tiles, pottery, &c	T. Polivka	519,344	May 8	746	184 185	67	695
Kiln for baking earthenware	C. D., A. D., S. D., and L. D. d'Enghien.	512,284	Jan. 9	917	223 224	66	185
Kiln for burning brick, pottery, &c	S. K. Smith	517,893	Apr. 10	777	194	57	164
Kiln for burning earthenware	W. H. R. Kunstman	519,814	May 15	1549	379 380	67	855
Kiln for burning pottery, clay, &c	R. Heilmann	523,469	July 24	2250	565 566	68	466
Kiln for firing pottery, &c	L. Lawton	524,300	Aug. 14	747	182	68	815
Kilns. Rack for decorating.	C. S. Maddock	530,237	Dec. 4	280	69	69	1266
Kitchen-cabinet	C. Bouchard	514,540	Feb. 13	939	237	66	1048
Kitchen-cabinet	H. A. Green	513,010	Jan. 16	2164	515	66	435
Kitchen-cabinet	W. Halaron	523,069	July 17	1531	383	68	320
Kitchen-cabinet	J. H. Keys	518,150	Apr. 10	1216	305	67	238
Kitchen-cabinet	F. E. P'Pool	516,402	Mar. 13	1097	261	66	1672
Kitchen-cabinet	W. H. Phenice	522,485	July 3	528	134	68	105
Kitchen-cabinet	P. L. Ramsey	538,180	Oct. 30	2539	615	69	528
Kitchen-cabinet	T. E. Smith	531,341	Dec. 25	2332	533	69	1667
Kitchen-cabinet	J. L. Swink	525,750	Sept. 11	744	173	68	1300
Kitchen-cabinet	M. S. Thomas	520,460	May 29	2652	641	67	1090
Kitchen-cabinet	W. Thompson	527,030	Oct. 2	589	143	69	111
Kitchen-cabinet	E. H. Traut	527,629	Oct. 16	1566	378	69	319
Kitchen-cabinet and churn. Combined	J. K. Hodges and T. C. Dickson	517,457	Apr. 3	73	16	67	16
Kitchen-table	G. R. Russell	512,665	Jan. 9	1548	372	66	305
Kitchen-table	F. E. Van Houten	527,303	Oct. 9	1030	250	69	205
Kitchen-tool. Combination	A. A. Cuddy	512,162	Jan. 2	728	176	66	139
Kite	E. E. Thayer	523,490	July 24	2289	576	68	473
Kneader and mixer. Dough	R. M. Shaffer	519,740	May 15	1429	345	67	832
Knee-protector	A. C. Bull	519,760	May 15	1459	354	67	838
Kneader. Dough	J. M. Crowley	513,175	Jan. 23	2108	582	66	553
Kneader. Dough or batter	I. Lobree	522,909	July 10	1255	310	68	253
Kneading-machine	J. Lee	524,042	Aug. 7	120	26, 27	68	684
Kneading machine. Dough	A. Webber	527,033	Oct. 2	593	143	69	111
Knee-protector.	S. Heyn	511,842	Jan. 2	150	38	66	32
Knife:							
See Bread or cake knife. Ripping-knife.							
Chopping-knife. Skinning-knife.							
Hay-knife. Sole-channelling knife.							
Peeling-knife. Table-knife.							
Pocket-knife. Tobacco-knife.							
Pruning-knife.							
Knife	R. J. Christy	519,237	May 1	537	129	67	642
Knife	J. H. Cook, Jr.	530,913	Dec. 11	1449	344	69	1495
Knife	E. Herrington	527,491	Oct. 16	1339	326	69	279
Knife	W. Wedekind	516,671	Mar. 20	1564	371	66	1777
Knife-burnishing machine.	G. B. Kelley	526,656	Sept. 25	2314	553 554	68	1615
Knife clamping or securing device	H. S. Buckland	526,292	Sept. 18	1680	397	68	1483
Knife-handle, brush-back, &c	F. N. Look	519,068	May 1	222	52	67	579

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec	Dr	Vol.	Page.
Knife-sections or other articles. Apparatus for hardening	W. F. Johnston and J. Gray	530,183	Dec. 4	188	47	69	1248
Knife-sharpener	B. H. Berkman	530,613	Dec. 11	962	236	69	1406
Knives. Making	G. M. Griswold	526,033	Sept. 18	1236	285	68	1402
Knives or kindred articles of cutlery. Making	E. C. Lombard	515,835	Mar. 6	115	40	66	1484
Knives to their handles. Means for attaching	J. Westby and J. Whitfield	528,452	Oct. 30	3010	727	69	612
Knit fabric and method of an apparatus for producing same.	W. R. Cartledge	525,091	Aug. 28	1951	477	68	1062
Knit garment	W. F. Kneip	513,047	Jan. 16	2213	530	66	444
Knit garments. Garment-sleeve and knitting and adapting same for attachment to	F. A. Byram	514,909	Feb. 20	1556	390	66	1179
Knit goods. Seam for cut	S. Borton	525,044	Aug. 28	1864	456	68	1048
Knitted doll	S. E. Holmes	526,319	Sept. 18	1735	410	68	1495
Knitted shirt	L. W. Groat	527,551	Oct. 16	1441	350	69	296
Knitted undershirt	J. Feldenheimer	528,536	Nov. 6	19	7	69	050
Knitting-machine	L. Bosi	516,960	Mar. 20	2037	481	66	1806
Knitting-machine	W. R. Dillmore	527,779	Oct. 23	1816	437	69	382
Knitting-machine	S. Jaros	527,113	Oct. 9	711	174	69	147
Knitting-machine	J. F. Pharo	531,062	Dec. 18	1711	407	69	1557
Knitting-machine	L. E. Salisbury	530,452	May 29	2635	637	67	1087
Knitting-machine	L. E. Salisbury	521,248	June 12	581	208	67	1370
Knitting-machine	L. E. Salisbury	528,810	Nov. 6	512	124	69	739
Knitting-machine	C. B. Sander	512,059	Jan. 2	547	129	66	104
Knitting-machine	L. N. D. Williams	521,066	June 5	562	131	67	1298
Knitting-machine	O. Wilson	528,838	Nov. 6	583	138	69	752
Knitting-machine	W. H. Zeller	521,069	June 5	567	133	67	1299
Knitting-machine. Automatic	W. D. Butz	529,362	Nov. 20	1498	360	69	960
Knitting machine. Automatic circular	B. M. Deuney	528,864	Nov. 6	630	150	69	761
Knitting machine. Automatic circular	W. H. Stewart	529,509	Nov. 20	1790	426	69	1010
Knitting-machine cam	G. H. Gilbert	521,367	June 12	1099	258	67	1412
Knitting machine. Circular	J. L. Branson and S. S. Cook	519,170	May 1	415	191	67	617
Knitting machine. Circular	J. L. Eck	523,111	July 17	1614	405	68	337
Knitting machine. Circular	E. W. Gourd	521,284	June 12	944	223	67	1381
Knitting machine. Circular	H. E. Harbaugh	513,707	Jan. 30	3311	816	66	757
Knitting machine. Circular	J. D. Hemphill	516,722	Mar. 20	1643	391	66	1791
Knitting machine. Circular	H. A. Houseman	522,210	July 3	67	14	68	14
Knitting machine. Circular	W. R. Johns	531,463	Dec. 25	2458	585	69	1711
Knitting machine. Circular	Z. Lecaisne	525,661	Sept. 4	575	137	68	1257
Knitting machine. Circular	J. P. Morin and G. J. H. Jacques	531,553	Dec. 25	2605	623	69	1739
Knitting machine. Circular-rib	C. J. Appleton	514,895	Feb. 20	1535	384	66	1176
Knitting-machine dial-cap	F. B. Wildman	514,609	Feb. 13	1064	266	66	1071
Knitting-machine for trimmings	O. E. Kilmarx	515,066	Feb. 20	1819	459	66	1227
Knitting-machine holddown	H. C. Rightmire	513,441	Jan. 23	2827	694	66	633
Knitting-machine needle-actuating cam	H. A. Houseman	521,860	June 26	1960	473	67	1604
Knitting-machine presser-wheels, &c. Adjustable supporting device for	A. and I. Tompkins	513,157	Jan. 23	2381	574	66	547
Knitting-machine stop-motion	G. J. Manderfield	512,310	Jan. 9	956	234	66	194
Knitting-machine stop-motion	E. Tiffany	521,190	June 12	777	182	67	1351
Knitting-machine stop-off motion	F. Chambers and T. Doud	519,690	May 8	1351	326	67	804
Knitting machine. Straight	J. G. Powell	523,807	July 31	2954	736	68	613
Knitting machine. Straight	H. Stoll and F. Maercklin	523,820	July 31	2566	712	68	596
Knitting machine. Straight	J. A. Wilson and R. Hutchinson	516,144	Mar. 6	656	153	66	1576
Knitting-machine transferring apparatus	H. Donner	527,674	Oct. 16	1636	394	69	332
Knitting machine. Warp	J. Bradley	527,934	Oct. 23	2093	501	69	432
Knitting machine. Warp	C. B. Sander	522,123	June 26	2432	584	67	1691
Knitting-machine warp-frame attachment	W. Cutts	520,303	May 22	2337	580	67	1024
Knitting-machines. Automatic electric stop-motion for	J. Buchel	513,259	Jan. 23	2552	615	66	581
Knitting-machines. Automatic stitch-regulating mechanism for	W. H. Stewart	529,508	Nov. 20	1787	426	69	1010
Knitting-machines. Draw-cam for stocking	J. D. Hemphill	516,723	Mar. 20	1658	393	66	1792
Knitting-machines. Electric stop-motion for	A. A. Morrill	515,965	Mar. 6	367	87	66	1521
Knitting-machines. Extra-thread-feeding device for	J. G. Powell	523,866	July 31	2949	735	68	612
Knitting machines. Fashioning device for circular	J. B. Paxton and E. I. O'Neill	521,218	June 12	825	193	67	1360
Knitting-machines. Quarter-saver for flat-rib	E. Tiffany and G. E. Parker	521,191	June 12	779	182	67	1351
Knitting machines. Self-acting fashioning device for circular	E. C. Breathwaite and J. W. Hepworth.	521,098	June 5	618	145	67	1308
Knitting machines. Stop-motion for straight	E. Tiffany	521,277	June 12	925	219	67	1378
Knitting machines. Stopping mechanism for circular	H. A. Houseman	517,045	Mar. 27	2194	519	66	1910

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Knitting-machines. Thickening-thread mechanism for	E. L. Lang and F. H. Daniell.....	527,019	Oct. 2	570	138	69	108
Knitting-needles. Making	A. B. Dodge	531,023	Dec. 18	1651	392	69	1545
Knob attachment	T. R. Bird	516,909	Mar. 20	1952	460	66	1449
Knob attachment	C. F. Doeblen	524,848	Aug. 21	1512	369	68	967
Knob attachment	T. A. Hodgson	529,792	Nov. 27	2248	536	69	1104
Knob attachment	H. M. Newton	524,861	Aug. 21	1529	374	68	970
Knob attachment	F. H. Richards	530,624	Dec. 11	980	241	69	1410
Knob attachment	T. E. Wardwell	520,508	May 29	2732	662	67	1104
Knob attachment	T. E. Wardwell	525,877	Sept. 11	989	222	68	1344
Knob attachment	T. E. Wardwell	529,887	Nov. 27	2415	579	69	1136
Knob. Door	J. Weatherwax	516,670	Mar. 20	1563	371	66	1776
Knob. Door	C. O. Case	528,147	Oct. 30	2485	602	69	518
Knob fastener. Door	C. A. Lindholm	529,180	Nov. 13	1184	285	69	881
Knob. Sheet-metal	O. C. Rumsey	527,560	Oct. 16	1451	353	69	298
Knob. Sheet metal	A. T. Matthews	527,438	Oct. 16	1252	308	69	260
Knockdown box	W. A. Turner	520,151	May 22	2135	520	67	977
Knockdown box or crate	B. L. Gale	521,310	June 12	994	234	67	1390
Knockdown case	J. J. Herbert	514,367	Feb. 6	662	168	66	977
Knockdown chair	M. M. Cleckley	521,848	June 26	1939	465	67	1509
Knockdown table	A. R. Van Norman	521,395	June 12	1139	269	67	1419
Kraut-cutter	S. J. Lucashevski	522,221	July 3	82	18	68	16
Label and price-card. Combined	W. A. Goforth	528,157	Oct. 30	2497	604	69	520
Label for file-binders	W. P. Stevens	529,760	Nov. 27	2199	524	69	1095
Label-holder	A. R. Baker	515,512	Feb. 27	2531	627	66	1372
Labeling-machine	W. G. Duckett	517,545	Apr. 3	212	48, 49	67	42
Labeling-machine	E. E. Euchenhofer, C. J. Weinman, and A. L. Stevens.	517,918	Apr. 10	823	206	67	173
Labeling-machine	F. Hasbrouck	513,784	Jan. 30	3423	844	66	777
Labeling-machine	A. L. Stevens	517,896	Apr. 10	783	195	67	165
Labeling-machine	A. L. Stevens	517,897	Apr. 10	785	196	67	165
Labeling machine. Can	E. W. Cornell	514,705	Feb. 13	1221	304	66	1102
Labeling machine. Can	A. L. Stevens	517,898	Apr. 10	786	197	67	166
Lace clamp. Shoe	L. D. Craig	528,464	Oct. 30	3038	737	69	617
Lace-clipping machine	C. H. Willcox and J. Range	524,924	Aug. 21	1629	399	68	988
Lace-fastener	J. B. Craig	519,018	May 1	126	31	67	560
Lace-fastener	O. P. and G. O. Elterich	524,633	Aug. 14	1145	281	68	889
Lace-fastener	A. Matchett	512,256	Jan. 2	867	209	66	163
Lace-fastener	E. A. Pumyea	523,377	July 24	2079	523	68	437
Lace fastener. Shoe	E. R. Dulje	526,830	Oct. 2	262	64	69	50
Lace fastener. Shoe	J. Homer	515,684	Feb. 27	2815	701	66	1429
Lace fastener. Tied shoe	T. E. Lewis	526,535	Sept. 25	2117	507	68	1578
Lace holder. Shoe	G. E. Mongeau	528,300	Oct. 30	2753	665	69	566
Lace making machines. Thread-controlling device for	C. F. Wolferts	530,873	Dec. 11	1383	329	69	1482
Lace, veiling, or ribbon holder	J. M. Schlesinger	528,447	Oct. 30	3000	725	69	610
Lacing fastener. Shoe	S. J. Simmons	515,844	Mar. 6	184	41	66	1487
Lacing hook or stud for shoes, gloves, &c.	G. S. Pearson	525,718	Sept. 11	691	160	68	1291
Lacing hook. Shoe	C. E. Van Norman	514,395	Feb. 6	701	177	66	985
Lacing-hooks. Machine for setting	I. E. Chandler	526,295	Sept. 18	1684	398	68	1484
Lacing-hooks. Machine for setting	J. Keith	517,828	Apr. 3	679	169	67	132
Lacing-hooks to setting devices. Machine for automatically feeding	J. J. Norwell	512,210	Jan. 2	797	194	66	151
Lacing-stud fastener	P. A. Raymond	519,847	May 15	1602	391	67	865
Lacing-studs. Process of and device for attaching	P. A. Raymond	519,848	May 15	1603	391	67	865
Ladder	F. B. Mallory	521,381	June 12	1121	264	67	1416
Ladder	J. Schade	523,011	July 17	1439	360	68	303
Ladder and guiding-trolley therefor. Step	W. J. Sumner	528,824	Nov. 6	549	131	69	746
Ladder and ironing-board support. Combined step and extension	A. Gonser	526,570	Sept. 25	2173	519	68	1588
Ladder and truck. Extension fire	A. B. Cairnes	527,942	Oct. 23	2110	506	69	435
Ladder. Aerial	J. D. Alexander	517,320	Mar. 27	2662	624	66	2001
Ladder and truck. Extension	S. M. Graumlich	512,190	Jan. 2	767	187	66	146
Ladder apparatus. Fire	H. L. Goodwin	528,938	Nov. 13	769	181	69	808
Ladder apparatus. Fire	W. J. Horton	528,126	Oct. 23	2444	591	69	496
Ladder attachment	E. F. Gnste	513,920	Jan. 30	3634	895	66	820
Ladder attachment	T. Wilkins	530,374	Dec. 4	528	132	69	1311
Ladder. Extensible step	W. A. Selzer	524,512	Aug. 14	948	234	64	851
Ladder. Extension	C. W. Howard	531,534	Dec. 25	2570	615	69	1732
Ladder. Extension	J. R. McLaren, Jr.	514,020	Feb. 6	69	17	66	867
Ladder. Extension	M. B. Monroe	524,784	Aug. 21	1396	341	68	947
Ladder. Extension	J. B. Moore	515,783	Mar. 6	93	22	66	1471
Ladder extension and shelf. Step	G. J. Leach	523,709	July 31	2674	663	68	560
Ladder extension attachment	W. Gates	515,582	Feb. 27	2647	658	66	1396
Ladder. Extension step	R. Dengel	524,195	Aug. 7	384	92	68	731
Ladder. Extension step	E. W. Hammon	514,223	Feb. 6	428	104	66	932
Ladder. Fire	R. Brayton	517,375	Mar. 27	2751	647	66	2020
Ladder. Fire	D. B. McHenry	512,052	Jan. 2	536	126	66	102
Ladder. Fire	J. Pauly and M. Michels	517,932	Apr. 10	843	212	67	176
Ladder. Fire	W. E. Walker	524,495	Aug. 14	912	225	68	846
Ladder. Folding	G. Hall	513,012	Jan. 16	2168	516	66	435
Ladder. Folding step	H. V. Crozier	513,485	Jan. 30	2921	719	66	685
Ladder for sleeping-care. Folding	J. R. Holbrook	519,184	May 1	439	103	67	632
Ladder, ironing-table, and wash bench. Combined step	H. G. Rounds	530,625	Dec. 11	982	211	69	1410

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Ladder-lock.....	C. P. Bushnell.....	523,848	July 31	2927	729	68	607
Ladder. Roofing.....	E. A. Austin.....	524,661	Aug. 14	1187	291	68	396
Ladder. Scuttle.....	R. M. Powers.....	512,322	Jan. 9	977	239 240	66	197
Ladder. Sectional.....	H. H. Lang.....	511,849	Jan. 2	164	41	66	34
Ladder. Sectional.....	H. H. Lang.....	518,961	May 1	39	11	67	543
Ladder. Sliding.....	W. J. Thurwanger.....	514,790	Feb. 13	1362	340 341	66	1128
Ladder. Step.....	G. E. Chittenden.....	520,202	May 22	2224	541	67	993
Ladder. Step.....	M. Minier.....	529,871	Nov. 27	2387	571	69	1132
Ladder. Step.....	B. A. Wright.....	522,444	July 3	471	119	68	94
Ladder-tower. Extensible.....	H. Hoffmann.....	526,318	Sept. 18	1733	409	68	1495
Ladder truck. Extension.....	A. Ruthenberg.....	524,047	Aug. 7	126	29	68	685
Ladder. Wooden.....	J. T. Knox.....	523,898	July 31	3003	747	68	622
Ladders. Combined brace, clamp, step fastening, and support for step.....	S. E. Allen.....	529,993	Nov. 27	2617	628	69	1175
Ladders. Trolley-support for.....	M. Croissant.....	526,438	Sept. 25	1973	470 471	68	1552
Ladle. Pouring.....	S. J. Adams.....	521,519	June 19	1377	320	67	1479
Ladle-support.....	L. L. Powell.....	517,293	Mar. 27	2692	615	66	1993
Lamp.....	R. M. Dixon.....	525,696	Sept. 11	651	152	68	1283
Lamp.....	F. Doelle and H. von Glahn.....	530,402	Dec. 4	572	142	69	1320
Lamp.....	F. Geddes and C. Schunke.....	516,925	Mar. 20	1979	465	66	1653
Lamp.....	J. Geiser.....	524,526	Aug. 14	968	237 238	68	855
Lamp.....	J. A. Hadley.....	526,665	Sept. 25	2331	557	68	1618
Lamp.....	J. Kirby, Jr.....	520,265	May 22	2332	566	67	1013
Lamp.....	G. A. McCay.....	518,531	Apr. 17	1898	470	67	378
Lamp.....	W. A. Phillips.....	521,439	June 12	1222	289 290	67	1434
Lamp.....	J. U. Pomeroy.....	517,361	Mar. 27	2729	642	66	2015
Lamp.....	W. B. Robins.....	514,036	Feb. 6	97	25	66	872
Lamp.....	E. F. Trent.....	519,851	May 15	1606	392 393	67	866
Lamp.....	E. F. Trent.....	519,852	May 15	1609	393	67	866
Lamp.....	E. F. Trent.....	519,853	May 15	1612	393	67	866
Lamp.....	E. F. Trent.....	519,854	May 15	1615	393 394	67	867
Lamp. Alternating electric-arc.....	E. R. Knowles.....	516,822	Mar. 20	1804	427 428	66	1820
Lamp and manufacturing same. Incandescent.....	H. D. Burnett and S. E. Doane.....	516,800	Mar. 20	1766	417	66	1812
Lamp and socket. Combined regulating incandes- cent.....	C. A. Hussey.....	527,969	Oct. 23	2210	533 534	69	453
Lamp and support. Cycle.....	J. C. Tudor.....	529,885	Nov. 27	2410	578	69	1135
Lamp. Arc.....	R. Drysdale.....	524,462	Aug. 14	864	212	68	837
Lamp. Arc.....	W. O. Meissner.....	515,125	Feb. 20	1881	473	66	1238
Lamp. Argand.....	E. Miller, Jr.....	514,156	Feb. 6	303	72	66	910
Lamp. Automatic electric signal.....	J. R. Farmer.....	521,435	June 12	1212	287 288	67	1432
Lamp bracket. Vehicle.....	S. L. Reedy.....	529,751	Nov. 27	2182	520	69	1092
Lamp-burner.....	J. Kampf.....	521,682	Aug. 14	1219	297	68	902
Lamp-burner.....	L. A. Milbank.....	519,865	May 15	1635	398	67	871
Lamp-burner.....	F. Rhind.....	531,219	Dec. 18	2011	477	69	1611
Lamp-burner clamp.....	E. C. Fowler and G. A. Downs.....	520,042	May 22	1923	471	67	939
Lamp-burner wick-adjuster.....	E. A. Humphrey.....	527,692	Oct. 16	1673	403	69	338
Lamp. Candle.....	F. E. Baldwin.....	520,200	May 22	2322	540	67	992
Lamp carbon-holder. Arc.....	E. Lavens.....	519,334	May 8	722	178	67	691
Lamp. Carbureting gas.....	A. Kitson.....	517,366	Mar. 27	2205	655	66	2030
Lamp-carrier for miners' caps.....	C. H. Hobson.....	524,528	Aug. 14	972	238	68	856
Lamp. Central-draft.....	F. Rhind. (Reissue).....	11,436	Aug. 28	2338	565	68	1133
Lamp-chimney rack.....	A. E. Snell.....	524,002	Aug. 7	60	14	68	672
Lamp. Coach.....	G. H. C. Tolman.....	526,877	Oct. 2	346	86	69	65
Lamp-collar.....	L. J. Atwood.....	517,676	Apr. 3	444	107	67	85
Lamp cut-out. Incandescent-electric.....	W. F. Smith.....	525,293	Aug. 28	2381	555	68	1123
Lamp. Double-carbon arc.....	C. E. Scribner.....	512,667	Jan. 9	1551	372 373	66	305
Lamp. Duplex arc.....	C. E. Scribner.....	512,401	Jan. 9	1116	270	66	222
Lamp. Duplex arc.....	C. E. Scribner.....	518,792	Apr. 24	2350	582	67	473
Lamp. Duplex electric-arc.....	G. F. Edens and J. B. Brewer.....	521,434	June 12	1210	287	67	1432
Lamp. Electric.....	F. C. Rockwell.....	517,069	Mar. 27	2248	532	66	1920
Lamp. Electric-arc.....	S. Bergmann.....	528,119	Oct. 23	2434	58	69	494
Lamp. Electric-arc.....	H. E. Bradley.....	525,943	Sept. 11	1079	245 246	68	1359
Lamp. Electric-arc.....	J. Brockie.....	520,240	Nov. 13	1286	309	69	899
Lamp. Electric-arc.....	S. L. Campbell.....	525,735	Sept. 11	723	167	68	1296
Lamp. Electric-arc.....	W. J. Davy.....	521,877	June 26	1985	479 480	67	1609
Lamp. Electric-arc.....	B. Ford.....	515,205	Feb. 20	2015	502	66	1263
Lamp. Electric-arc.....	W. E. Frost.....	524,144	July 17	1680	420	68	348
Lamp. Electric-arc.....	J. C. Fyfe.....	519,283	May 1	615	150	67	656
Lamp. Electric-arc.....	M. R. Gutierrez and M. T. Thompson.....	513,921	Jan. 30	3634	896	66	820
Lamp. Electric-arc.....	E. F. Gwynn.....	522,790	July 10	1073	265	68	219
Lamp. Electric-arc.....	C. J. Hartley.....	512,880	Jan. 16	1953	463	66	397
Lamp. Electric-arc.....	E. and F. W. Heymann.....	532,294	July 3	206	56	68	42
Lamp. Electric-arc.....	C. Hoffmann.....	518,719	Apr. 24	2232	555 556	67	452
Lamp. Electric-arc.....	L. E. Howard.....	529,991	June 5	430	103	67	1275
Lamp. Electric-arc.....	R. M. Hunter.....	514,229	Feb. 6	437	106	66	934
Lamp. Electric-arc.....	R. H. Jabr.....	524,981	Aug. 21	1723	422	68	1005
Lamp. Electric-arc.....	W. Jandus.....	513,111	Jan. 23	2301	556 557	66	531
Lamp. Electric-arc.....	S. P. Johnson.....	521,798	June 26	1863	446	67	1585
Lamp. Electric-arc.....	J. F. Kester.....	519,912	May 15	1704	416	67	884

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Lamp. Electric-arc.....	J. F. Kester.....	532,327	July 3	260	69	68	52
Lamp. Electric-arc.....	G. Kirkegaard.....	515,342	Feb. 27	2263	561	66	1322
Lamp. Electric-arc.....	P. Kirkegaard.....	532,735	July 10	970	242	63	200
Lamp. Electric-arc.....	E. R. Knowles.....	516,826	Mar. 20	1811	430	66	1822
Lamp. Electric-arc.....	E. R. Knowles and E. H. Park.....	516,825	Mar. 20	1809	429	66	1821
Lamp. Electric-arc.....	W. B. Luce.....	514,425	Feb. 6	740	188 189	66	993
Lamp. Electric-arc.....	L. B. Marks.....	521,936	June 26	2110	506	67	1634
Lamp. Electric-arc.....	L. B. Marks and C. Ransom.....	520,996	June 5	438	105	67	1276
Lamp. Electric-arc.....	W. Mathiesen.....	519,726	May 15	1410	340	67	829
Lamp. Electric-arc.....	M. Mayer.....	527,211	Oct. 9	868	211	69	177
Lamp. Electric-arc.....	F. L. McGahan.....	516,574	Mar. 13	1391	331	66	1728
Lamp. Electric-arc.....	J. B. McKeown.....	519,045	May 1	173	41	67	569
Lamp. Electric-arc.....	J. B. McKeown. (Reissue).....	11,433	July 31	3138	782	64	648
Lamp. Electric-arc.....	A. H. Moses, Jr.....	527,559	Oct. 16	1450	353	69	228
Lamp. Electric-arc.....	A. H. Moses, Jr.....	528,642	Nov. 6	221	55	69	686
Lamp. Electric-arc.....	E. J. Murphy.....	511,422	Dec. 25	2371	567	69	1695
Lamp. Electric-arc.....	R. Niewerth.....	512,481	Jan. 9	1270	305	66	252
Lamp. Electric-arc.....	R. Niewerth.....	512,482	Jan. 9	1271	305 306	66	252
Lamp. Electric-arc.....	M. S. Okun.....	522,680	July 10	860	214	68	182
Lamp. Electric-arc.....	C. E. Ogley.....	533,684	Nov. 6	295	72, 73	69	699
Lamp. Electric-arc.....	W. S. Pendleton.....	524,116	Aug. 7	247	57, 58	68	707
Lamp. Electric-arc.....	F. A. Perret.....	513,725	Jan. 30	3344	825	66	763
Lamp. Electric-arc.....	A. B. Roney.....	525,743	Sept. 11	735	170	68	1298
Lamp. Electric-arc.....	S. W. Rushmore.....	515,022	Feb. 20	1719	432	66	1209
Lamp. Electric-arc.....	A. Schweitzer.....	522,233	July 3	101	23	68	20
Lamp. Electric-arc.....	C. E. Scribner.....	514,506	Feb. 13	890	226	66	1038
Lamp. Electric-arc.....	C. E. Scribner and E. P. Warner.....	514,505	Feb. 13	888	225 226	66	1038
Lamp. Electric-arc.....	R. Segerdahl.....	518,654	Apr. 24	2105	526	67	430
Lamp. Electric-arc.....	R. Segerdahl.....	528,184	Oct. 30	2545	617	69	529
Lamp. Electric-arc.....	A. W. Smith.....	522,276	July 3	183	50	68	38
Lamp. Electric-arc.....	G. G. Stout.....	524,003	Aug. 7	60	14	68	673
Lamp. Electric-arc.....	O. H. Swoboda.....	524,357	Aug. 14	685	167	68	802
Lamp. Electric-arc.....	H. O. Swoboda.....	527,901	Oct. 23	2033	488	69	421
Lamp. Electric-arc.....	E. Thomson.....	525,034	Aug. 28	1841	450	68	1044
Lamp. Electric-arc.....	E. Thomson.....	525,035	Aug. 28	1844	450	68	1045
Lamp. Electric-arc.....	G. G. Wagner.....	514,139	Feb. 6	254	62, 63	66	902
Lamp. Electric-arc.....	J. J. Wood.....	515,850	Mar. 6	193	45, 46	66	1489
Lamp. Electric-arc.....	J. E. Woolverton.....	514,583	Feb. 13	1019	256	66	1062
Lamp. Electric-arc.....	J. E. Woolverton.....	527,228	Oct. 9	899	218	69	183
Lamp. Electric-arc.....	J. E. Woolverton.....	527,229	Oct. 9	901	218	69	184
Lamp. Electric incandescent.....	F. M. F. Cazin.....	523,461	July 24	2234	561	68	413
Lamp. Electric incandescent.....	E. E. Crigall.....	518,179	Apr. 10	1269	319	67	247
Lamp. Electric incandescent.....	J. Peil and C. K. MacFadden.....	512,320	Jan. 9	975	239	66	197
Lamp. Electric incandescent.....	E. Thomson and E. W. Rice, Jr.....	529,429	Nov. 20	1637	369	69	924
Lamp. Electrical glow.....	H. Cottrell.....	515,405	Feb. 27	2461	609 610	66	1359
Lamp electrode. Arc.....	S. Heimann.....	517,042	Mar. 27	2189	518	66	1910
Lamp-extinguisher. Automatic.....	M. MacElree.....	516,868	Mar. 20	1880	445	66	1836
Lamp for bicycles. Electric.....	G. Mayr.....	521,721	June 19	1719	406	67	1543
Lamp for electric-railway cars. Signal.....	C. H. Baker.....	531,146	Dec. 18	1872	444 445	69	1587
Lamp. Gas.....	M. Hicks.....	512,026	Jan. 2	497	117 118	66	95
Lamp. Gas.....	E. Moreau and H. S. Miner.....	516,609	Mar. 13	1447	343	66	1738
Lamp globe-holder. Arc.....	J. T. Dempster.....	514,417	Feb. 6	730	185	66	991
Lamp guard and shade-holder. Incandescent.....	G. W. Demmick.....	516,801	Mar. 20	1767	417	66	1812
Lamp-hanger.....	T. Hancock.....	522,160	June 26	2504	601	67	1705
Lamp hanger. Electric.....	H. C. Henley.....	522,896	July 10	1232	306	68	249
Lamp hanger. Electric.....	W. S. Weston.....	526,825	Oct. 2	253	62	69	48
Lamp. Hanging.....	J. H. Moss.....	527,440	Oct. 16	1254	308	69	260
Lamp-heater.....	C. Hemje.....	522,662	July 10	832	208	68	176
Lamp heater attachment.....	A. H. Cowan.....	524,667	Aug. 14	1197	293	68	898
Lamp holder. Adjustable incandescent.....	S. E. Nutting.....	523,482	July 24	2276	572	68	470
Lamp holder. Electric.....	F. O. Farwell.....	524,707	Aug. 21	1266	312	68	924
Lamp holder. Electric.....	M. P. Meyer.....	522,690	July 10	879	217	68	175
Lamp hood. Electric-arc.....	S. Bergmann.....	514,057	Feb. 6	128	30	66	878
Lamp. Incandescent.....	A. C. Carey.....	512,464	Jan. 9	1238	299	60	246
Lamp. Incandescent.....	A. C. Carey.....	517,432	Apr. 3	16	4	67	6
Lamp. Incandescent.....	J. R. Grove.....	530,838	Dec. 11	1330	319	69	1473
Lamp. Incandescent.....	R. Langhaus.....	516,892	Mar. 20	1917	453	66	1843
Lamp. Incandescent.....	F. S. Smith.....	520,088	May 22	2010	491	67	955
Lamp. Incandescent.....	G. C. Swan.....	516,689	Mar. 20	1592	379	66	1762
Lamp. Incandescent.....	D. C. Voss.....	521,131	June 5	672	158	67	1318
Lamp. Incandescent electric.....	R. P. Ashwell and G. W. Tuttle.....	517,017	Mar. 27	2145	508	66	1901
Lamp. Incandescent electric.....	D. J. Cartwright.....	526,145	Sept. 13	1431	335	68	1136
Lamp. Incandescent electric.....	F. M. F. Cazin.....	523,460	July 24	2230	561	68	463
Lamp. Incandescent electric.....	J. E. Crigall.....	523,305	July 17	1955	492	68	396
Lamp. Incandescent electric.....	W. E. Forest.....	523,204	July 17	1789	449	68	367
Lamp. Incandescent electric.....	E. Kaye.....	530,895	Dec. 11	1421	337 338	69	1489
Lamp. Incandescent electric.....	E. R. Knowles.....	516,819	Mar. 20	1798	426	66	1819
Lamp. Incandescent electric.....	F. S. Smith.....	519,099	May 1	273	65	67	588
Lamp. Incandescent electric.....	G. H. W. Timbrell and J. C. Fyfe.....	514,739	Feb. 13	1282	319	66	1112
Lamp. Incandescent electric.....	J. W. Turnbull.....	512,637	Jan. 9	1495	361	66	294
Lamp-lighter.....	F. Ferguson.....	522,462	July 3	497	126	68	99
Lamp-lighter.....	A. H. Todd.....	521,516	June 19	1375	320	67	1479
Lamp-lighter. Electric.....	J. C. Chambers.....	522,727	July 10	955	237 238	68	198
Lamp-lighter. Electric.....	J. F. McLaughlin.....	521,809	June 26	1879	449	67	1588
Lamp. Miner's.....	W. P. McMasters.....	519,616	May 8	1229	295	67	782
Lamp. Miner's safety.....	W. E. Field.....	527,055	Oct. 9	627	153	69	132

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Lamp. Miner's safety.	J. Graham and H. Chapman	517,520	Apr. 3	170	38	67	35
Lamp. Miner's safety.	L. Jenkins	526,711	Oct. 2	70	18	69	16
Lamp. Miner's safety.	C. Wolf	530,217	Dec. 4	249	60	69	1261
Lamp. Multiple-filament.	A. L. Clough	523,395	July 24	2106	530	68	413
Lamp or lantern.	L. W. Scheffers	520,866	June 5	203	45, 46	67	1234
Lamp post. Arc.	R. R. Bowker	524,305	Aug. 14	573	130	68	784
Lamp. Regenerative gas.	W. White	526,955	Oct. 2	468	115 116	69	88
Lamp-reservoirs. Oil-indicator for.	F. G. Echols	531,106	Dec. 18	1797	428	69	1572
Lamp. Rotatable signal.	F. W. Dressel	519,496	May 8	1009	244	67	743
Lamp. Rotatable signal.	G. C. Dressel	527,054	Oct. 9	627	152	69	132
Lamp. Safety.	T. Lowther, H. Toal, and R. Hay	521,801	June 26	1868	447	67	15-6
Lamp-shade.	E. D. Cooke	512,364	Jan. 9	1043	254 255	66	209
Lamp-shade.	A. Feigl	522,752	July 10	1013	251	68	207
Lamp-shade.	H. Hohenstein	524,825	Aug. 21	1470	359	68	961
Lamp-shade.	F. E. Knight and H. S. Smith	520,649	May 29	2959	716	67	1116
Lamp-shade.	A. Seberg and D. Connor	517,859	Apr. 10	771	192	67	163
Lamp-shade.	W. E. Ward	515,325	Feb. 27	2339	581	66	1337
Lamp shade. Electric.	E. Vedovelli	524,241	Oct. 30	2652	639	69	548
Lamp shade-holder.	S. Bergman	514,639	Feb. 13	1111	277	66	10-0
Lamp shade-holder. Incandescent.	E. A. Russell and N. W. Crandall	527,623	Oct. 16	1554	376	69	316
Lamp shade protector	G. Reichman	523,029	Oct. 23	22-0	549	69	465
Lamp sketching camera.	C. R. Jenne	520,058	May 22	1950	477	67	944
Lamp-socket.	L. Stirn	515,485	Feb. 27	2494	617	66	1365
Lamp-socket.	A. Swan	510,844	Mar. 20	1841	436	66	1828
Lamp socket. Incandescent.	J. McFarlane and W. B. Edgar	513,951	Jan. 30	3662	906	66	830
Lamp socket. Incandescent.	R. C. Norrse	515,606	Feb. 27	2655	667	66	1403
Lamp socket. Incandescent.	L. R. Peck	521,332	June 12	1012	238	67	1394
Lamp socket. Incandescent.	L. R. Peck	527,285	Oct. 9	1000	243	69	200
Lamp socket. Incandescent.	T. L. Pfarr, Jr.	512,448	Jan. 9	1211	293	66	241
Lamp socket. Incandescent.	L. Stirn	515,484	Feb. 27	2493	617	66	1365
Lamp socket. Incandescent-electric.	C. H. Balsley	531,288	Dec. 18	2137	512	69	1634
Lamp socket. Incandescent-electric.	E. R. Knowles	516,820	Mar. 20	1799	426	66	1819
Lamp stand and reflector. Incandescent.	G. F. Klemia	525,909	Sept. 11	1029	233	68	1351
Lamp. Street.	W. Ritter	526,870	Oct. 2	334	82	69	63
Lamp support. Electric.	J. J. Renehan	523,007	July 17	1432	358	68	301
Lamp-supporter. Vehicle.	J. Wise	526,798	Oct. 2	212	51	69	40
Lamp-supports. Expansible ring for.	L. J. Atwood	521,073	June 5	574	135	67	1301
Lamp-suspending device.	F. Rhind	530,459	Dec. 4	655	163	69	1335
Lamp trimmer and regulator.	A. W. Robinson	514,627	Feb. 13	1088	271	68	1076
Lamp. Tubular.	W. S. Hamm and A. M. Duburn	514,927	Feb. 20	1580	397	66	1184
Lamp-wick raiser.	H. W. Hayden	513,638	Jan. 30	3193	783	66	735
Lamp-wick regulator.	W. L. Harding	529,322	Nov. 20	1545	369	69	968
Lamp. Wickless.	A. Niemczik	524,093	Aug. 7	210	48	68	700
Lamps. Adjustable carrier for electric.	R. Faries	521,952	June 26	2145	514	67	1639
Lamps. Adjustable desk-bracket for electric.	S. G. Garlock and B. W. Marshall	517,569	Apr. 3	252	58	67	49
Lamps. Air-distributor for central-draft.	J. Jauch	529,496	Nov. 20	1768	421	69	1006
Lamps. Automatic cut-out for incandescent.	E. H. Johnson	515,960	Mar. 6	358	84	66	1520
Lamps. Bushing for electric-arc.	T. J. Houck	523,893	July 31	2996	746	68	621
Lamps. Carbon-holder for arc.	E. Lavens	527,864	Oct. 23	1967	473	69	408
Lamps. Counterweight for suspended.	A. Zempliner	529,054	Nov. 13	9-1	228	69	841
Lamps. Device for heating water over alcho.	M. F. Bishop	514,436	Feb. 13	75-3	194	66	1014
Lamps. Handpiece for portable electric.	A. Rockoff	525,564	Sept. 4	417	100	68	1228
Lamps. Lighting or extinguishing street.	C. Kewell	529,449	Nov. 20	1680	402	69	992
Lamps. Manufacture of incandescent electric.	H. D. Burnett and S. E. Doane	522,964	July 17	1361	338	68	289
Lamps. Means for adjusting electric.	N. M. Andersen	513,066	Jan. 16	2240	539	66	450
Lamps. Oil-regulator for continuously-fed.	H. S. Pullman	520,611	May 29	2903	701	67	1136
Lamps. Regulating-socket for incandescent.	M. D. Greengard	516,484	Mar. 13	1233	295	66	1698
Lamps. Shade-holder for incandescent electric.	N. W. Crandall and E. A. Russell	530,751	Dec. 11	1195	291	69	1447
Lamps. Spark-arrester for arc.	E. M. Clark	531,159	Dec. 18	1896	452	69	1590
Lamps. Spark shield or protector for electric-arc.	W. M. Tompkins	525,929	Sept. 11	1061	241	68	1356
Lamps. Suspension-ring for barps for hanging.	J. Jauch	512,967	Jan. 16	2099	497 498	66	422
Lamps. Switching apparatus for incandescent electric.	C. E. Scribner	529,532	Nov. 20	1834	436	69	1019
Lamps. Wick-adjuster for central-draft.	J. C. Miller	522,691	July 10	881	218	68	185
Lamps with oil. Apparatus for automatically filling.	L. S. Lewis	521,171	June 12	747	176	67	1345
Lamps. Working arc.	W. S. Horry	523,401	July 24	2121	532	68	444
Lampblack or carbon-black machine.	J. E. James	521,797	June 26	1861	446	67	1585
Land-presser.	C. C. Maxwell	517,352	Mar. 27	2712	637	66	2012
Land-roller.	E. Alpaugh	516,175	Mar. 13	710	167	66	1601
Land-roller.	J. G. Clarke	526,647	Sept. 25	2299	550 551	68	1612
Land-roller.	J. F. Yontz	524,536	Aug. 14	981	241	68	857
Lands from overflow. Device for protecting riparian.	W. and H. McCaughan	514,767	Feb. 13	1323	330	66	1120
Lantern.	C. Bergener	529,017	Nov. 13	902	213	69	830
Lantern.	G. C. Gill and L. C. Atwood	519,255	May 1	570	138	67	648
Lantern.	W. S. Hamm	529,787	Nov. 27	2238	533	69	1102
Lantern.	D. Jackson and J. Osterloh	529,794	Nov. 27	2251	537	69	1104
Lantern.	G. W. Jarmin	524,062	June 26	2333	560	67	1673
Lantern.	G. W. Jarmin	530,049	Nov. 27	2727	625	69	1196
Lantern.	T. Langston	528,439	Oct. 30	2986	722	69	608
Lantern.	G. Rowland	530,636	Dec. 11	983	241	69	1410
Lantern.	J. W. Senior	529,422	Nov. 20	1620	385	69	981
Lantern.	J. C. Shull	526,058	Sept. 18	1278	298	68	1409
Lantern.	M. G. Stevens	521,829	June 26	1912	458	67	1595
Lantern attachment.	P. O. Martin	523,223	July 17	1819	457	68	373
Lantern. Bicycle.	F. C. Weston	511,981	Jan. 2	423	98	66	81
Lantern. Bicycle signal.	F. Rhind	520,658	May 29	2976	720	67	1149
Lantern. Bicycle signal.	F. Rhind	520,659	May 29	2977	720	67	1149
Lantern. Dark.	V. Groom	523,521	July 24	2348	589	68	485

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Lantern. Electric signal.....	E. R. Knowles.....	516,824	Mar. 20	1808	{ 428 429	{ 66	1821
Lantern-globes. Manufacture of.....	F. W. Stewart.....	523,133	July 17	1664	417	68	346
Lantern-holder for wagons, &c.....	G. J. Beehler.....	521,361	June 12	1091	256	67	1410
Lantern. Hurricane.....	W. Lighbody.....	519,406	May 8	856	{ 207 208	{ 67	716
Lantern. Magic.....	G. E. and V. H. Emerson.....	514,707	Feb. 13	1224	{ 304 305	{ 66	1102
Lantern or lamp extinguisher.....	C. W. Cottrell.....	521,642	June 19	1580	372	67	1517
Lantern. Signal.....	P. Gray.....	521,162	June 12	729	172	67	1342
Lantern-slide mat.....	P. S. Benedict.....	524,301	Aug. 14	567	135	68	783
Lantern. Velocipede.....	R. P. Gormully.....	531,180	Dec. 18	1935	460	69	1598
Lanterns. Electric-arc light for magic.....	C. Beseler.....	521,362	June 12	1092	257	67	1410
Lap-machines. Safety stopping mechanism for.....	A. H. Morton.....	518,007	Apr. 10	990	{ 247 248	{ 67	199
Lard-cooler.....	W. L. Whitman.....	512,642	Jan. 9	1518	365	66	299
Lard coolers and purifiers. Indicating device for.....	W. H. Deemer.....	513,381	Jan. 23	2737	{ 665 666	{ 66	616
Last.....	S. Appleton.....	521,305	June 12	983	232	67	1388
Last.....	F. E. Benton.....	517,424	Apr. 3	5	2	67	4
Last.....	F. E. Benton.....	518,985	May 1	80	21	67	551
Last.....	J. Howard.....	525,323	Aug. 28	2337	565	68	1133
Last.....	E. J. Howard.....	528,296	Oct. 30	2743	663	69	565
Last.....	J. C. Kupferle.....	519,067	May 1	220	52	67	578
Last.....	H. W. Mobbs and A. Lewis.....	517,165	Mar. 27	2406	567	66	1952
Last and stand. Shoe.....	I. G. Hatcher.....	518,602	Apr. 24	2013	500	67	414
Last-block fastener.....	F. E. Benton.....	527,582	Oct. 16	1492	362	69	305
Last-block fastener.....	C. W. Moore.....	518,509	Apr. 17	1860	461	67	372
Last. Metal.....	G. C. Pettis.....	528,737	Nov. 6	371	90	69	714
Last. Shoe.....	A. T. and J. Harper.....	526,035	Sept. 18	1238	285	68	1402
Lasts for boots or shoes. Machine for manufacturing.....	W. H. Austin.....	526,987	Oct. 2	519	127	69	97
Lasting-machine.....	J. Blakey.....	519,755	May 15	1450	{ 350 351	{ 67	836
Lasting-machine.....	E. S. Combs.....	511,835	Jan. 2	139	36	66	29
Lasting-machine.....	J. E. Crisp.....	517,947	Apr. 10	866	{ 218 219 224	{ 67	180
Lasting-machine.....	J. E. Crisp and E. F. Grandy.....	521,975	June 26	2184	{ 525 526 515	{ 67	1646
Lasting-machine.....	E. F. Grandy.....	521,954	June 26	2151	{ 516 517	{ 67	1640
Lasting-machine.....	C. H. Kelley.....	529,390	Nov. 20	1563	373	69	971
Lasting-machine.....	C. H. Kelley.....	529,653	Nov. 20	2017	{ 483 484	{ 69	1053
Lasting-machine.....	C. W. King.....	523,402	July 24	2123	{ 533 534	{ 68	445
Lasting-machine.....	S. W. Ladd.....	523,939	July 31	3090	{ 769 770	{ 68	638
Lasting-machine.....	N. Lombard.....	524,444	Aug. 14	835	{ 204 205	{ 68	831
Lasting-machine.....	N. Lombard.....	524,445	Aug. 14	837	{ 203 206	{ 68	832
Lasting-machine.....	N. Lombard.....	524,446	Aug. 14	841	207	68	832
Lasting-machine.....	N. Lombard.....	524,447	Aug. 14	845	207	68	833
Lasting-machine.....	T. O'Boiger.....	511,906	Jan. 2	306	71	66	59
Lasting-machine.....	E. Patten.....	524,489	Aug. 14	902	{ 222 223 639 640	{ 68	844
Lasting-machine.....	C. Sinning.....	518,932	Apr. 24	2583	{ 641 642 643	{ 67	517
Lasting-pinchers.....	F. Eckert.....	526,345	Sept. 18	1771	420	68	1502
Lasting-tool. Hand.....	I. Fréchette.....	519,859	May 15	1624	395	67	869
Latch.....	H. Arnet.....	515,985	Mar. 6	409	91	66	1528
Latch.....	A. Iske.....	524,594	Aug. 14	1072	265	68	875
Latch.....	F. Kallsen.....	526,811	Oct. 2	232	56	69	44
Latch.....	J. G. Lane.....	523,218	July 17	1813	455	68	372
Latch.....	M. S. Millard.....	517,353	Mar. 27	2714	637	66	2012
Latch.....	S. N. Park.....	511,907	Jan. 2	308	71	66	59
Latch.....	W. C. Sheldon.....	516,229	Mar. 13	815	190	66	1620
Latch.....	E. S. Winchester.....	529,575	Nov. 20	1905	454	69	1032
Latch and knob. Combined.....	C. and G. Spengler.....	527,627	Oct. 16	1560	378	69	318
Latch and lock.....	J. MacLachlan.....	526,980	Oct. 2	506	124	69	95
Latch and lock combined.....	N. H. Colwell.....	524,756	Aug. 21	1351	329	68	938
Latch and lock. Combined.....	N. B. Gregory.....	519,284	May 1	619	150	67	657
Latch and lock. Combined.....	M. Jackson.....	516,765	Mar. 20	1719	404	66	1803
Latch. End-gate.....	S. T. Elgin.....	529,720	Nov. 27	2132	511	69	1084
Latch for sliding gates.....	T. N. Fisher.....	525,682	Sept. 4	610	145	68	1263
Latch. Gate.....	J. M. Mathews.....	520,117	May 22	2056	502	67	964
Latch. Gate.....	G. Rohrbach.....	521,045	June 5	525	124	67	1292
Latch. Gate.....	J. L. Wilson.....	531,353	Dec. 25	2252	537	69	1671
Latch. Gate.....	W. F. Wilson.....	531,491	Dec. 25	2503	596	69	1719
Latch-lock.....	B. D. Coppage.....	527,944	Oct. 23	2119	{ 508 509	{ 69	437
Latching device for double doors.....	I. Johnson.....	525,906	Sept. 11	1026	232	68	1350
Lath-bolter.....	H. Jencas.....	514,081	Feb. 6	167	39	66	886
Lath-machine.....	C. F. Darnell and L. Koss.....	524,057	Aug. 7	144	32, 33	68	688
Lath or shingle holder.....	D. C. Lyons.....	527,613	Oct. 16	1540	373	69	314
Lath. Sheathing.....	M. C. Nichole.....	513,025	Jan. 16	2184	521	66	438
Laths. Machine for making metal.....	A. O. Wright.....	513,604	Jan. 30	3134	769	66	725
Laths. Machine for making metal.....	A. O. Wright.....	527,578	Oct. 16	1484	361	69	304

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Lathing. Metallic	M. Brendel	516,378	Mar. 13	1079	256	66	1668
Lathing. Metallic	W. Eckstein	514,313	Feb. 6	586	146	66	963
Lathing. Metallic	G. Hayes	519,952	May 15	1768	433	67	895
Lathing. Metallic	G. Hayes	521,237	June 12	860	202	67	1366
Lathing. Metallic	G. Hayes	521,498	June 19	1347	312	67	1474
Lathing. Metallic	G. Hayes	521,499	June 19	1348	313	67	1474
Lathing. Metallic	G. Hayes. (Reissue)	11,448	Oct. 23	2460	595	69	498
Lathing. Metallic	G. A. Turnbull	511,823	Jan. 2	118	29	66	25
Lathing. Metallic	A. O. Wright	527,577	Oct. 16	1484	360	69	304
Lathing-strip	L. T. Hagan	531,589	Dec. 25	2664	640	69	1751
Lathe	W. F. Barnes	521,754	June 19	1790	425	67	1554
Lathe	W. Lodge	522,607	July 10	744	188	68	161
Lathe	W. T. Wood	523,825	July 31	2874	714	68	598
Lathe attachment	W. K. Hance	512,372	Jan. 9	1058	258	66	211
Lathe attachment	H. A. Meyer	516,989	Mar. 20	2085	497	66	1873
Lathe-carriage	J. Young	516,622	Mar. 13	1469	348	66	1742
Lathe-carrier	B. C. Esmarch	530,303	Dec. 4	400	101	69	1288
Lathe-centering device	R. L. Levin	517,466	Apr. 3	88	19	67	19
Lathe. Cooper's	H. Schmidt	525,160	Aug. 28	2076	506	68	1083
Lathe cutter-head. Twist	W. Miller	513,810	Jan. 30	3465	853	66	786
Lathe dog	J. F. Wentz	512,997	Jan. 16	2141	510	66	431
Lathe-dog	G. H. Willis	515,391	Feb. 27	2348	583	66	1339
Lathe. Engine turning	W. Shellenback	518,164	Apr. 10	1242	311	67	241
Lathe-fixture for gear-cutting	R. Branstetter	516,586	Mar. 13	1409	334	66	1730
Lathe for axle-boxes. Turning	R. R. Spears	530,861	Dec. 11	1365	326	69	1479
Lathe for relieving taps	W. A. Robertson	521,510	June 19	1365	317	67	1477
Lathe for turning elliptical forms	C. W. MacCord	531,203	Dec. 18	1977	470	69	1605
Lathe for turning irregular forms	C. Kunze	518,611	Apr. 24	2027	504	67	417
Lathe-guard	R. S. Peabody	530,238	Dec. 4	290	71	69	1268
Lathe. Metal-turning	S. W. Putnam	525,863	Sept. 11	965	216	68	1338
Lathe polishing and filing attachment	C. Teske	516,779	Mar. 20	1736	408	66	1806
Lathe. Screw-cutting engine	W. P. Norton	519,924	May 15	1722	432	67	887
Lathe slide-rest	H. Eckhardt	516,678	Mar. 20	1578	375	66	1779
Lathe taper-turning tool	Z. B. Coes	527,140	Oct. 9	759	186	69	156
Lathe-tool for turning and finishing gas-fittings, &c.	S. N. Rapp	512,564	Jan. 9	1386	334	66	274
Lathe. Turning	F. A. C. Wunderlich and D. N. Gleason.	512,427	Jan. 9	1167	283	66	232
Lathe. Turret	C. M. Conradson	523,327	July 24	2001	502	68	423
Lathe. Turret	F. H. Richards	513,653	Jan. 30	3224	791	66	740
Lathe. Turret	F. H. Richards	515,365	Feb. 27	2303	572	66	1330
Lathe. Turret	F. H. Richards	518,969	May 1	52	13	67	516
Lathes. Adjustable stop for taper-turning	J. Flather	520,918	June 5	304	74	67	1252
Lathes. Construction of	C. A. Windmüller	513,356	Jan. 23	2698	654	66	609
Lathes. Means for centering face-plates for	E. Reynolds	522,192	June 26	2431	524	67	1691
Lathes. Polishing device for spoke	W. H. Joslin	530,110	Dec. 4	60	16	69	1226
Lattice or truss girder	H. Joly	513,187	Jan. 23	2425	585	66	556
Launch. Naphtha	C. Gould	523,635	July 24	2525	633	68	518
Laundry articles. Receptacle for holding	A. Herdman	513,575	Jan. 30	3087	759	66	717
Laundry-frame	J. Wisner	515,701	Feb. 27	2845	708	66	1434
Laundry-hanging rod	W. S. Coburn	519,017	May 1	125	31	67	560
Laundry-iron. Box	C. W. Potter and J. C. Hewitt	524,732	Aug. 21	1312	321	68	932
Lavatory apparatus	D. Ketas	531,045	Dec. 18	1688	401	69	1553
Lavatory-leg	J. R. Giller	516,679	Mar. 20	1578	376	66	1779
Lawn-edge trimmer	G. F. Wagner	517,942	Apr. 10	837	216	67	179
Lawn-rake	T. A. Galt	529,901	Nov. 27	2434	585	69	1140
Lawn-rake	L. Gibbs	514,989	Feb. 20	1670	418	66	1201
Lawn-rake	M. S. Gifford	530,041	Nov. 27	2701	649	69	1191
Lawn-sprinkler	S. S. Black	518,560	Apr. 17	1941	479	67	386
Lawn-sprinkler	J. Dickens	517,544	Apr. 3	210	48	67	42
Lawn-sprinkler	T. Maher	530,620	Dec. 11	973	238	69	1409
Lawn-sprinkler	W. Rundquist	513,957	Jan. 30	3690	908	66	831
Lawn-sprinkler	S. H. Stott	515,625	Feb. 27	2717	676	66	1410
Lawn-sprinkler	C. Widrig	527,419	Sept. 4	270	66	68	1201
Leaching apparatus	F. B. Strunz	527,819	Oct. 23	1877	450	69	393
Leaching. Machine for pulverizing bark for	L. R. Johnson	529,796	Nov. 27	2355	538	69	1109
Lead. Apparatus for the production of white	N. K. Morris and J. W. Bailey	513,150	Jan. 23	2340	564	66	539
Lead hydrate produced by electrolysis. Treating	A. B. Browne	527,830	Oct. 23	1826	69	69	395
Lead. Making white	E. Waller and C. A. Sniffin	525,826	Sept. 11	892	66	68	1325
Lead. Peroxidizing	W. W. Griscom	515,333	Feb. 27	2351	66	66	1320
Lead-press	H. B. Cobb	515,951	Mar. 6	340	81	66	1517
Lead salts from native ores. Obtaining	A. G. Fell	519,704	May 15	1375	67	67	822
Lead-holder	J. H. Pendleton	528,560	Nov. 6	58	15	69	657
Leaf-turner	W. G. Gitchell	516,008	Mar. 6	445	102	66	1535
Leaf-turner	H. Kramer	527,997	Oct. 23	2230	538	69	466
Leaf-turner	L. Swindle	519,934	May 15	1740	426	67	890
Leaf-alarm. Electric	C. C. Kahne, A. A. Adkins, W. S. Peirce, J. E. Martin, and G. F. Kahne.	523,881	Nov. 6	658	158	69	766
Leak stopper	A. Colomés	512,866	Jan. 16	1931	457	66	393
Leather-cutting cylinder	E. T. Marble	525,052	Aug. 28	1883	461	68	1051

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Leather-cutting machine.....	P. Goldstein.....	521,538	June 19	1411	{ 326 327 }	67	1484
Leather-dressing compound.....	J. E. M. Bourgeois.....	526,769	Oct. 2	167	.....	69	32
Leather. Making artificial.....	H. Krum.....	525,985	Sept. 11	1158	.....	68	1375
Leather-scoring machine.....	J. R. Scott.....	520,709	May 29	3079	745	67	1168
Leather-shaping machine.....	S. Ross.....	515,614	Feb. 27	2700	671	66	1406
Leather-shaving machine.....	J. Gerber.....	512,953	Jan. 16	2076	492	66	418
Leather-skiving machine.....	J. Barker.....	521,077	June 5	579	136	67	1302
Leather-skiving machine.....	N. Dufresne.....	519,282	May 1	614	149	67	636
Leather-skiving machine.....	W. Hartmann and J. L. Thomson.....	527,424	Oct. 16	1226	301	69	256
Leather-skiving machine.....	A. E. Perry.....	518,790	Apr. 24	2346	{ 581 582 }	67	473
Leather-skiving machine.....	J. R. Scott.....	521,090	June 5	604	{ 142 143 }	67	1306
Leather-skiving machine.....	A. J. Tewksbury.....	517,631	Apr. 3	353	53, 84	67	69
Leather-skiving machines. Circular knife for.....	A. J. Tewksbury.....	519,744	May 15	1134	316	67	833
Leather-splitting machine.....	S. H. Randall.....	524,768	Aug. 21	1372	334	68	942
Leather-splitting machine.....	J. A. Safford.....	514,730	Feb. 13	1268	{ 316 317 }	66	1109
Leather-stretching machine.....	P. King.....	513,943	Jan. 30	3069	904	66	827
Leather-stripping machine.....	M. J. Ryan.....	521,048	June 5	529	{ 121 125 }	67	1293
Leather-waxing machine.....	E. Guay.....	522,411	July 3	408	104	68	81
Ledger-plate.....	P. C. Shipley.....	520,807	June 5	84	19	67	1213
Leg. Artificial.....	W. Andrews.....	518,658	Apr. 24	2113	528	67	431
Leg. Artificial.....	E. H. Ericksson.....	527,525	Oct. 16	1401	311	69	289
Leg. Artificial.....	D. Hershberger.....	514,225	Feb. 6	431	105	66	933
Leg. Artificial.....	W. R. Honsucle.....	519,503	May 8	1018	216	67	744
Leg. Artificial.....	J. McGuire.....	521,446	June 12	1241	293	67	1438
Leg. Artificial.....	C. H. Truax.....	527,133	Oct. 9	748	{ 183 184 }	69	154
Legged articles. Construction of.....	W. J. Humphreys.....	520,432	May 29	2605	630	67	1081
Leggin.....	M. Z. Levy.....	527,149	Oct. 9	774	189	69	159
Length-indicator for fabrics.....	J. W. Woods and D. I. Barnett.....	520,946	June 5	358	87	67	1262
Lens for optical purposes.....	C. P. Goertz and E. von Höegh.....	523,155	Oct. 30	2495	604	69	520
Lenses to elevator-doors, &c. Holder for attaching.....	C. W. Mark.....	528,003	Oct. 23	2328	540	69	458
Letter-box.....	C. E. Abbott.....	528,897	Nov. 6	678	163	69	770
Letter-box.....	T. C. Chappell.....	522,045	June 26	2309	554	67	1668
Letter-box.....	S. A. Groff.....	519,427	May 8	890	215	67	723
Letter-box.....	J. W. Heutz.....	516,890	Mar. 20	1914	452	66	1842
Letter-box.....	J. W. Heutz.....	516,891	Mar. 20	1916	452	66	1843
Letter-box.....	H. L. Johnson.....	524,637	Aug. 14	1152	2-3	68	890
Letter-box.....	C. W. Martin.....	527,799	Oct. 23	1-51	445	69	389
Letter-box.....	G. L. Savage and W. H. Harrison.....	521,993	June 26	2227	535	67	1653
Letter-box. House.....	J. F. Wollensak.....	512,350	Jan. 9	1023	250	66	205
Letter-box. Street.....	J. A. Metcalf.....	527,614	Oct. 16	1540	374	69	314
Letter-case, portfolio, &c.....	A. E. A. Ray.....	518,628	Apr. 21	2060	512	67	421
Letter-drier.....	D. D. Howard.....	517,803	Apr. 3	645	162	67	125
Letter-elevator.....	B. Waldstein.....	512,075	Jan. 2	582	138	60	111
Letter. Sign.....	G. J. B. Rodwell.....	513,281	Jan. 23	2587	626	66	588
Letter. Sign.....	G. J. B. Rodwell.....	513,282	Jan. 23	2587	626	66	588
Letter. Transparency.....	C. de Bornand and C. Alker.....	514,539	Feb. 13	938	237	66	1048
Letters. Manufacture of sign.....	F. K. Kennedy.....	512,713	Jan. 16	1631	392	66	335
Letters or other designs on cardboard. Forming.....	C. D. Vassiliades.....	523,442	July 3	469	119	68	93
Letters. Producing illuminated.....	J. H. Rogers.....	512,395	Jan. 9	1104	267	66	321
Level.....	J. Habel.....	523,205	July 17	1790	449	68	367
Level.....	H. Hughes.....	523,854	July 31	2297	746	68	621
Level.....	J. A. Traut.....	523,021	July 17	1463	361	68	307
Level.....	J. A. Traut.....	523,022	July 17	1466	364	68	308
Level.....	J. A. Traut.....	523,023	July 17	1467	361	68	308
Level and key-seat rule.....	F. Schaefer.....	516,024	Mar. 6	474	110	66	1540
Level attachment. Spirit.....	A. Schnell.....	517,935	Apr. 10	849	214	67	177
Level attachment. Spirit.....	A. Schnell.....	527,815	Oct. 23	1872	449	69	392
Level. Hand.....	J. Paoli.....	518,678	Apr. 24	2150	537	67	439
Level. Plumb.....	R. and S. Pollard.....	526,458	Sept. 25	2011	478	68	1558
Level, plumb, and slope-indicator. Combined.....	O. A. White.....	531,239	Dec. 18	2047	428	69	1617
Level. Spirit.....	E. Olson.....	516,893	Mar. 20	1930	{ 455 456 }	66	1845
Levels. Adjustable index for spirit.....	H. Wheeler.....	516,142	Mar. 6	654	152	66	1575
Leveler. Road.....	N. S. Monroe.....	525,426	Sept. 4	186	47	68	1185
Lever-controlling device.....	A. H. Johnson.....	520,926	June 5	331	80	67	1257
Life-boat.....	C. Baswitz.....	517,536	Apr. 3	194	44	67	39
Life-boat.....	A. Schönmann.....	513,424	Jan. 23	2797	6-6	66	628
Life-boat and ship's safe. Combined.....	C. Gardner.....	516,968	Mar. 20	2048	{ 484 485 }	66	1268
Life-buoy. Marine.....	J. A. Gnest and J. H. Bates.....	512,957	Jan. 16	2082	493	66	419
Life-preserver.....	W. S. Beale.....	513,977	Feb. 6	8	2	66	856
Life-preserver.....	J. P. Brown.....	531,505	Dec. 25	2525	604	69	1724
Life-preserver.....	P. Hobmann.....	514,640	Feb. 13	1180	294	66	1093
Life-preserver, buoy, &c. Automatic.....	A. Colomes.....	519,242	May 1	549	134	67	613
Life-preserving or swimming apparatus.....	P. Goldmann.....	516,720	Mar. 20	1640	390	66	1790
Life-saving apparatus.....	K. Hoekstra.....	530,525	Dec. 11	807	201	69	1379
Life-saving apparatus.....	L. E. Pease.....	518,857	Apr. 24	2450	607	67	491
Life-saving device for tramways.....	L. Martineau.....	512,836	Jan. 16	1869	442	66	381
Life-saving garment.....	O. Hanson.....	525,342	Sept. 4	29	7	68	1156
Lift, hoist, &c.....	P. G. Backman.....	515,641	Feb. 27	2739	682	66	1414
Lifter:							
See Box-lifter. Transom-lifter.							
Pan-lifter. Stove-lid lifter.							
Plate-lifter. Wagon-box lifter.							
Lifting-fork.....	G. M. Parsons.....	515,162	Feb. 20	1948	486	66	1251
Lifting-jack.....	H. M. Anderson.....	514,893	Feb. 20	1531	383	66	1175
Lifting-jack.....	S. W. Fleming and J. W. Ressler.....	513,774	Jan. 30	3411	841	66	775
Lifting-jack.....	L. Foix.....	525,890	Sept. 11	1007	227	68	1347

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Lifting-jack	I. Frank	511,767	Jan. 2	40	10	66	11
Lifting-jack	W. Johnson	514,755	Feb. 13	1306.	325	66	1117
Lifting-jack	S. S. Joy	526,153	Sept. 18	1445	338	68	1439
Lifting-jack	B. F. Lewis	517,465	Apr. 3	87	19	67	19
Lifting-jack	T. Maxon	525,223	Aug. 28	2173	531	68	1101
Lifting-jack	A. A. Smith	523,871	July 31	2962	738	68	614
Lifting-jack	A. L. Stanford	513,155	Jan. 23	2379	574	66	547
Lifting-jack	A. L. Stanford	527,818	Oct. 23	1876	450	69	393
Lifting-jack	E. R. Stilwell	523,717	July 31	2691	667	68	563
Lifting-jack	F. Wiser	525,247	Aug. 28	2207	537	68	1107
Lifting-jack. Compound-lever	N. Weiler	524,010	Aug. 7	71	16	68	675
Lifting-machine	D. Nelson	523,440	July 24	2187	551	68	456
Lifting or hoisting tool	D. Kirkbride	517,281	Mar. 27	2592	607	66	1987
Lifting or log jack	E. and A. G. Hayford	525,706	Sept. 11	675	156	68	1287
Ligature-receptacle	G. M. Stratton	529,844	Nov. 27	2345	559	69	1123
Light:							
<i>See</i> Dead-light. Search-light.							
Electric search-light. Side light.							
Light circuits. Regulator for continuous-current arc-	D. Higham	512,027	Jan. 2	499	118	66	96
Light-concentrator for dentists, surgeons, or others ..	W. H. Thrift	519,799	May 15	1528	{ 372 373 }	{ 67 67 }	{ 851 851 }
Light-indicator	L. F. Johnson	527,608	Oct. 16	1530	371	69	312
Light-support	J. R. Hughes	522,116	June 26	2425	5-2	67	1690
Lighter, Magazine	F. Goff and T. H. Joiner	521,466	June 19	1285	299	67	1462
Lighting apparatus. Building	J. S. Robin	527,005	Oct. 2	545	134	69	103
Lighting device	B. H. Pendleton	531,597	Dec. 25	2677	643	69	1754
Lighting implement	W. H. Sheppard	519,354	May 8	772	188	67	700
Lighting system. Alternating-current arc-	T. Spencer	519,849	May 15	1604	392	67	865
Lightning-arrester	A. L. Courtright	525,240	Sept. 11	922	206	68	1331
Lightning-arrester	J. W. Gibboney	520,776	June 5	26	5	67	1201
Lightning-arrester	F. S. Pearson	526,736	Oct. 2	112	26	69	23
Lightning-rod and coupling	J. W. Smith	518,793	Apr. 24	2352	583	67	474
Lightning-rod ornament	C. F. Keys	529,866	Nov. 27	2380	569	69	1130
Limbs. Coaptating pad for artificial	J. F. Rowley	526,057	Sept. 18	1277	295	68	1409
Limekiln	J. O. Connell and G. Sniffin	521,295	June 12	963	228	67	1385
Lime-light apparatus	W. Lawson	517,570	Apr. 10	739	188	67	157
Lime-slaker	F. L. Moores	520,323	May 22	2429	591	67	1032
Lime. Slaking	E. F. Ransome	515,017	Feb. 20	1710		66	1208
Lime discharger. Automatic	J. F. Ganduxer	523,889	July 31	2092	744	68	620
Line-fastener	R. M. Christensen	521,847	June 26	1938	465	67	1599
Line-fastener	W. S. Twitty	517,597	Apr. 3	285	68	67	58
Line-prop	W. C. Applegate	518,479	Apr. 17	1811	448	67	363
Line reel, fastener, and tightener. Combined ..	C. Wagoner	515,486	Feb. 27	2495	617	68	1366
Line-tightener	A. B. Frack	530,035	Nov. 27	2694	647	69	1190
Linemen's use. Tool for	S. Smith and M. B. Mishler	530,361	Dec. 4	507	125	69	1307
Liner and measre. Combined	S. Katani	527,335	Oct. 9	1078	280	69	214
Link-lifter	L. West	514,875	Feb. 13	1497	376	66	1154
Linoleum-cutting apparatus	D. N. Melvin	511,785	Jan. 2	65	16	66	15
Linoleum-pressing apparatus	D. N. Melvin	513,241	Jan. 23	2518	607	66	571
Linotype and holder therefor. Curved	G. A. Dubeux	513,007	Jan. 16	2161	{ 513 514 }	{ 66 66 }	{ 434 434 }
Linotype-machine	P. T. Dodge	520,158	May 22	2148	523	67	979
Linotype-machine	P. T. Dodge	530,931	Dec. 18	1483	531	69	1516
Linotype-machine	O. Mergenthaler	522,073	June 26	2353	{ 565 566 }	{ 67 67 }	{ 1677 1677 }
Linotype-machine	O. Mergenthaler	527,702	Oct. 16	1688	406	69	341
Linotype-machine	O. V. Sigurdsson	524,2-5	Aug. 7	528	124	68	756
Linotype-machine	H. A. Stall	515,623	Feb. 27	2713	{ 675 676 }	{ 66 66 }	{ 1409 1409 }
Linotype-machines. Composing mechanism for	O. Mergenthaler	531,266	Dec. 18	2091	{ 501 502 }	{ 69 69 }	{ 1625 1625 }
Liquid agitating and discharging apparatus ..	A. H. and T. A. Schlueter	512,489	Jan. 9	1282	308	66	254
Liquid containing and discharging device	A. H. and T. A. Schlueter	519,478	May 8	976	236	67	737
Liquid-containing vessel	J. Thornton and A. B. Woodard	528,748	Nov. 6	395	94	69	718
Liquid-cooler	W. O. Savage	522,721	July 10	934	233	68	195
Liquid-cooling apparatus	H. Mendés	518,618	Apr. 24	2040	{ 507 508 }	{ 67 67 }	{ 418 418 }
Liquid-dispensing apparatus	W. R. Dales	530,681	Dec. 11	1082	263	69	1426
Liquid-dispensing apparatus	W. M. Fowler	522,322	July 3	250	66, 67	68	50
Liquid-distributor. Automatic	P. Leoni	520,531	May 29	2770	670	67	1111
Liquid-gage	A. R. Welch	517,710	Apr. 3	500	120	67	96
Liquid-gage	A. R. Welch	523,158	July 17	1703	428	68	352
Liquid-mixer	J. B. Thies	519,978	May 15	1815	445	67	904
Liquid mixer, shaker, and fruit-squeezer ..	W. H. Payne	528,688	Nov. 6	300	74	69	700
Liquid-purifying apparatus	J. T. Harris	531,118	Dec. 18	1818	432	69	1576
Liquid-separator. Centrifugal	C. L. Chapman	523,105	July 17	1597	{ 401 402 }	{ 68 68 }	{ 334 334 }
Liquid-separator. Centrifugal	D. J. Davis	521,104	June 5	628	142	67	1310
Liquid-separator. Centrifugal	J. L. Jönsson	519,085	May 1	251	59	67	584
Liquid-separator. Centrifugal	C. J. Lundstrom	514,156	Feb. 6	298	72	66	909
Liquids. Apparatus for centrifugal separation of compound ..	A. Pouten and J. V. Skoglund	528,690	Nov. 6	303	74	69	701
Liquids, &c. Apparatus for combining	E. Adam and M. O. Rehfuss	513,857	Jan. 30	3543	873	66	802
Liquids. Apparatus for driving off volatile constituents from ..	W. T. Walker	529,233	Nov. 13	1275	306	69	896
Liquids. Apparatus for driving off volatile constituents from ..	W. T. Walker	529,234	Nov. 13	1276	306	69	897
Liquids. Method of and apparatus for purifying ..	J. T. Harris	531,183	Dec. 18	1939	461	69	1599
Liquors. Apparatus for cooling and aerating ..	P. Hildenbrand	515,829	Mar. 6	158	39	66	1423
Liquors, &c. Apparatus for dispensing	J. Tomlinson	526,591	Sept. 25	2199	526	68	1593
Lister, cultivator, and planter	A. T. Statna	512,406	Jan. 9	1125	272	66	224
Lithographic and hectographic stone. Artificial ..	W. R. Forbush	516,370	Mar. 13	1049		66	1663
Lithographic stones. Clamping device for	O. Roesen	529,840	Nov. 27	2339	556	69	1122

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Litter.....	R. Ortega.....	529,301	Nov. 13	1402	336	69	921
Loader and sled. Fodder or feed.....	E. F. Lewis.....	530,782	Dec. 11	1251	302	69	1458
Loading apparatus.....	H. Aiken.....	530,296	Dec. 4	390	98	69	1286
Loading apparatus.....	H. N. Carpenter.....	519,988	May 15	1836	448	67	908
Loading machine. Dirt.....	E. Fourman.....	523,034	July 17	1483	369	68	311
Loading machine. Dirt.....	J. M. Younger.....	519,753	May 15	1447	349	67	835
Loading wagons with gravel, sand, &c. Apparatus for.....	J. McTurner, W. J. Boren, and S. H. Turner.....	512,988	Jan. 16	2128	505	66	428
Loads. Apparatus for raising or lowering heavy.....	H. A. Eckley.....	526,694	Oct. 2	39	10, 11	69	10
Loan-box. Delivery and registering.....	R. Martinez.....	516,654	Mar. 20	1535	{ 365 366 }	66	1771
Lobster-trap.....	A. P. Lewis.....	524,331	Aug. 14	618	149	68	793
Lock:							
<i>See</i> Alarm-lock. Master-key lock.							
Bag-lock. Mortise-lock.							
Bicycle-lock. Nut-lock.							
Bicycle-lantern lock. Nut and bolt lock.							
Bolt-lock. Nut or bolt lock.							
Bolt and nut lock. Pad-lock.							
Car-lock. Padlock.							
Coin-actuated lock. Permutation-lock.							
Combination-lock. Rudder-lock.							
Cylinder-lock. Safe-lock.							
Door-lock. Safety-lock.							
Door bar-lock. Sash-lock.							
Drawer-lock. Seal-lock.							
Electric lock. Till-lock.							
Hasp-lock. Time-lock.							
Indicator-lock. Trunk-lock.							
Latch-lock. Umbrella-lock.							
Lock.....	C. W. Brown.....	523,654	July 31	2558	641	68	541
Lock.....	G. Brust, D. F. Reinhard, and L. P. Dunkel.....	527,105	Oct. 9	701	172	69	146
Lock.....	D. J. Cable.....	517,729	Apr. 3	527	{ 127 128 }	67	102
Lock.....	E. Cazin.....	523,736	July 31	2722	674	68	569
Lock.....	A. M. Coan.....	530,396	Dec. 4	561	139	69	1318
Lock.....	W. W. Davis.....	521,366	June 12	1097	258	67	1411
Lock.....	W. W. Davis.....	529,606	Nov. 20	1950	463	69	1041
Lock.....	F. E. Forsell.....	530,935	Dec. 18	1490	353	69	1517
Lock.....	F. W. Harris.....	518,884	Apr. 24	2494	618	67	500
Lock.....	C. T. Johnson.....	518,211	Apr. 10	1337	333	67	261
Lock.....	T. J. Johnston.....	529,388	Nov. 20	1560	372	69	970
Lock.....	E. A. Judd.....	515,689	Feb. 27	2827	703	66	1431
Lock.....	C. H. La Belle.....	529,348	Nov. 13	1473	354	69	935
Lock.....	B. S. Miles.....	525,225	Aug. 28	2176	531	68	1102
Lock.....	F. W. Mix.....	524,642	Aug. 14	1159	285	68	892
Lock.....	F. W. Mix.....	524,643	Aug. 14	1160	286	68	892
Lock.....	A. O'Keefe.....	525,615	Sept. 4	493	119	68	1243
Lock.....	J. J. Ridgway.....	513,279	Jan. 23	2584	625	66	588
Lock.....	J. J. Ridgway.....	522,430	July 3	453	115	68	90
Lock.....	J. Roche.....	524,148	Aug. 7	311	73	68	719
Lock.....	J. Schade.....	528,114	Oct. 23	2423	586	69	492
Lock.....	F. W. Schultze.....	531,005	Dec. 18	1626	386	69	1541
Lock.....	C. Swanberg.....	528,450	Oct. 30	3007	726	69	612
Lock.....	O. F. Teed.....	530,862	Dec. 11	1367	326	69	1479
Lock.....	C. N. Vittum.....	526,878	Oct. 2	347	86	69	65
Lock.....	J. F. Williams.....	515,390	Feb. 27	2347	583	66	1338
Lock and latch. Combined.....	E. M. and J. E. Mix.....	521,984	June 26	2213	{ 532 533 }	67	1651
Lock and latch. Combined.....	J. Murdie.....	526,456	Sept. 25	2006	478	68	1537
Lock attachment.....	L. L. Bettys.....	528,269	Oct. 30	2693	649	69	556
Lock-case.....	E. E. Magovern and T. Scanlan.....	526,323	Sept. 18	1739	411	68	1496
Lock for doors of moving vehicles.....	C. A. Wright.....	528,581	Nov. 6	98	25	69	664
Lock-key attachment.....	J. F. von Hinefeld.....	519,605	May 8	1205	291	67	778
Lock marking-gage. Door.....	F. K. Etherington.....	513,313	Jan. 23	2630	638	66	597
Lock marking-gage. Door.....	F. K. Etherington.....	527,600	Oct. 16	1520	369	69	310
Lock opener. Pneumatic door.....	J. Schnepf.....	518,119	Apr. 10	1172	293	67	230
Locks. Automatic locking mechanism for permutation.....	E. Stockwell.....	512,995	Jan. 16	2139	509	66	430
Locks. Electroprotective system for.....	M. Martin.....	520,795	June 5	61	14	67	1209
Locks. Guard for bolts of spring.....	J. W. Gray.....	525,074	Aug. 28	1921	470	68	1058
Locks. Mechanism for detecting opening of.....	C. Smyth.....	530,133	Dec. 4	96	26	69	1233
Locks. Tool for forming key-slots in.....	W. H. Taylor.....	514,248	Feb. 6	477	117	66	942
Locking-box.....	A. R. Bingham.....	524,303	Aug. 14	571	136	68	784
Locking-clamp.....	J. C. Pratt.....	514,567	Feb. 13	985	249	66	1057
Locking device for show-cases.....	J. M. Waddell.....	529,886	Nov. 27	2412	579	69	1136
Locomotion on railways. Electric.....	J. J. Heilmann.....	527,244	Oct. 9	924	223	69	187
Locomotive.....	C. A. Couch.....	528,078	Oct. 23	2363	570	69	481
Locomotive.....	C. Hagans.....	525,205	Aug. 25	2145	{ 523 524 }	63	1096
Locomotive.....	R. Helmholtz.....	516,436	Mar. 13	1153	276	66	1683
Locomotive.....	B. F. Taylor. (Reissue).....	11,437	Sept. 4	624	147	68	1265
Locomotive.....	B. F. Taylor. (Reissue).....	11,438	Sept. 4	625	148	68	1266
Locomotive.....	W. E. Worthen.....	517,133	Mar. 27	2349	554	66	1941
Locomotive ash-pan.....	H. F. Walker.....	522,540	July 3	618	157	68	121
Locomotive ash-pan ventilator.....	E. H. Marshall.....	525,503	Sept. 4	305	75	68	1208
Locomotive ash-pan. Device for removing ashes from.....	A. Reynolds.....	529,408	Nov. 20	1598	380	69	977
Locomotive attachment.....	J. R. Rutherford.....	520,615	May 29	2907	702	67	1137
Locomotive attachment.....	F. J. Smith.....	521,166	June 12	770	180	67	1349
Locomotive-boiler.....	G. A. Akerlind.....	527,645	Oct. 16	1591	{ 384 385 }	69	324
Locomotive-boiler.....	D. L. Barnes.....	519,315	May 8	684	167	67	684

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Locomotive-boiler.....	T. A. Henderson.....	515,923	Feb. 20	2049	510	66	1269
Locomotive-boiler.....	E. C. Jordan.....	524,901	Aug. 21	1586	388	68	981
Locomotive-boiler.....	G. H. Taylor.....	516,949	Mar. 20	2019	477	66	1861
Locomotive-boiler attachment.....	J. J. H. Theiling.....	516,950	Mar. 20	2020	478	66	1862
Locomotive-brake.....	H. M. Lofton.....	516,569	Mar. 13	1385	320	66	1726
Locomotive-buffler.....	W. F. Richards.....	524,072	Aug. 7	173	39	68	693
Locomotive-cab or other window or door.....	H. W. Tinker.....	516,245	Mar. 13	838	196	66	1625
Locomotive-cab window or door.....	H. W. Tinker.....	516,244	Mar. 13	836	196	66	1624
Locomotive. Compound.....	C. J. Melhu.....	519,407	May 8	858	208	67	716
Locomotive-coupling. Electric.....	E. D. Priest.....	521,669	June 19	1630	322	67	1525
Locomotive-crane.....	W. Sellers and W. Lewis.....	515,025	Feb. 20	1730	436	66	1210
Locomotive-diaphragm.....	E. M. Roberts, J. F. Blackwood, and J. P. Cabill.....	514,337	Feb. 6	619	158	66	969
Locomotive draft-regulator.....	C. A. McCulloch and F. Welliver.....	515,154	Feb. 20	1935	484	66	1249
Locomotive draw-bar.....	S. R. Heidleberg.....	512,375	Jan. 9	1062	259	66	212
Locomotive draw-bar.....	P. Leeds.....	522,299	July 3	217	58	68	44
Locomotive drive wheels. Releasing device for brakes of.....	W. O. Pelham.....	529,948	Nov. 27	2516	606	69	1154
Locomotive driving-gear.....	A. Prawatke.....	526,981	Oct. 2	509	125	69	95
Locomotive. Electric.....	E. M. Bentley.....	511,988	Jan. 2	434	102	66	83
Locomotive. Electric.....	R. Eickemeyer.....	520,228	May 22	2266	552	67	1000
Locomotive. Electric.....	E. Hopkinson.....	522,534	July 10	1139	282	68	231
Locomotive. Electric.....	R. M. Hunter.....	520,111	May 22	2046	500	67	962
Locomotive. Electric.....	W. H. Knight.....	520,787	June 5	44	10	67	1205
Locomotive. Electric.....	W. Lawrence.....	518,006	Apr. 10	988	246	67	199
Locomotive. Electric.....	N. J. Raffard.....	527,126	Oct. 9	740	181	69	152
Locomotive-engine.....	C. A. Ball.....	520,839	June 5	155	34	67	1225
Locomotive-engine.....	E. E. Hanson.....	522,830	July 10	1134	281	68	230
Locomotive-engine. Compound.....	C. A. Ball.....	521,254	June 12	889	210	67	1371
Locomotive-engine. Compound.....	K. Gölsdorf.....	526,778	Oct. 2	183	43	69	35
Locomotive exhaust-nozzle.....	E. W. Harris.....	513,923	Jan. 30	3658	897	66	821
Locomotive exhaust-nozzle.....	J. O'Neill.....	516,899	Mar. 20	1931	456	66	1845
Locomotive feed device.....	L. Lazerns.....	530,998	Dec. 18	1603	381	69	1537
Locomotive fire-box.....	F. von Dormus.....	516,923	Mar. 20	1976	465	66	1852
Locomotive fire-kindling apparatus.....	J. McNaughton.....	515,009	Feb. 20	1697	427	66	1206
Locomotive for elevated railways. Electric.....	F. B. Behr.....	531,499	Dec. 25	2515	600	69	1721
Locomotive for elevated tracks. Electric.....	C. H. Roberts.....	511,862	Jan. 2	184	45, 46	66	39
Locomotive gearing. Electric.....	G. W. Swartz.....	513,599	Jan. 30	3122	767	66	723
Locomotive. Gearless electric.....	C. J. Van Depoele.....	529,671	Nov. 20	2050	491	69	1059
Locomotive or car replacer.....	S. Ryden.....	512,487	Jan. 9	1280	308	66	254
Locomotive or other furnace.....	R. H. Brown.....	528,588	Nov. 6	106	27	69	666
Locomotive running-gear.....	R. Helmholz.....	514,320	Feb. 6	594	150	66	964
Locomotive sanding device.....	F. T. Chase.....	522,148	June 26	2487	596	67	1702
Locomotive shifting link-motion.....	W. B. Warren.....	521,398	June 12	1146	271	67	1421
Locomotive. Smoke-consuming.....	F. C. McNally.....	531,555	Dec. 25	2609	624	69	1740
Locomotive-tender-box lid.....	W. A. Stofer.....	512,236	Jan. 2	838	203	66	158
Locomotives. Contact-bar for electric.....	J. J. Green.....	522,710	July 10	909	224	68	191
Locomotives. Contact-shoe for electric.....	J. J. Green.....	522,709	July 10	907	224	68	190
Locomotives. Controller for electric.....	J. W. Darley, Jr.....	530,507	Dec. 11	766	188	69	1372
Locomotives. Hand-operating mechanism for electric.....	A. W. Mitchell.....	530,956	Dec. 18	1528	362	69	1524
Locomotives. Means for controlling electric.....	E. Egger and F. A. Wessel.....	531,366	Dec. 25	2220	543	69	1676
Locomotives. Means for supporting motors in electric.....	W. S. Adams.....	529,688	Nov. 27	2079	498	69	1075
Locomotives. Method of and means for speed regulation of electric.....	C. E. Emery.....	517,948	Apr. 10	867	219	67	180
Locomotives. Motor-controlling device for electric.....	S. H. Short.....	514,135	Feb. 6	247	60	66	901
Locomotives. Oil-cellar for driving-boxes for.....	F. H. Taylor and F. Riley.....	521,515	June 19	1374	319	67	1478
Locomotives. Power-transmitting mechanism for electric.....	M. W. Dewey.....	513,295	Jan. 30	3601	888	66	813
Locomotives. Throttle-actuating mechanism for.....	E. G. Shortt.....	530,905	Dec. 11	1436	341	69	1492
Log-barking machine.....	W. W. and F. N. Trevor.....	517,990	Apr. 10	960	240	67	194
Log-carrier.....	R. E. Terry.....	522,366	July 3	315	81	68	62
Log-carrier.....	R. E. Terry.....	526,758	Oct. 2	152	36	69	29
Log-carrier cushion.....	F. O. Kilgore.....	517,222	Mar. 27	2500	588	66	1970
Log-hauling locomotive.....	H. J. Sullivan.....	511,975	Jan. 2	416	96	66	79
Log loader and turner.....	W. E. Hill.....	514,550	Feb. 13	956	242	66	1051
Log loader and turner. Steam.....	W. E. Hill.....	514,463	Feb. 13	819	207	66	1025
Log loading and turning machine.....	W. E. Hill.....	523,070	July 17	1532	383	68	321
Log-rolling hook.....	G. S. Kaine and O. Stenerson.....	524,595	Aug. 14	1073	265	68	875
Log-turners. Lever-action for valve-gear for.....	H. O. Lange.....	516,741	Mar. 20	1687	399	66	1798
Log-unloader.....	W. E. Hill.....	526,624	Sept. 25	2256	540	68	1604
Logs. Rossing.....	E. C. Hargrave.....	516,091	Mar. 6	577	135	66	1560
Logging apparatus.....	A. W. Brown.....	525,944	Sept. 11	1081	246	68	1360
Logging-car.....	W. Sass.....	514,499	Feb. 13	877	223	66	1036
Logging system.....	R. Lamb.....	523,216	July 17	1810	453	68	371
Loom.....	W. G. Connell.....	522,554	July 3	641	163	68	125
Loom.....	G. O. Draper.....	527,014	Oct. 2	558	136	69	105
Loom.....	W. F. Draper.....	517,269	Mar. 27	2575	603	66	1984
Loom.....	E. G. Johanson.....	521,656	June 19	1608	377	67	1521

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Loom	J. H. Northrop	529,940	Nov. 27	2494	{ 601 602	69	1150
Loom	J. H. Northrop	529,941	Nov. 27	2502	602		1151
Loom	J. H. Northrop	529,942	Nov. 27	2504	603		1152
Loom	J. H. Northrop	529,943	Nov. 27	2506	{ 603 604	69	1152
Loom-batten	T. Ehrenberg	512,171	Jan. 2	739	179		141
Loom. Circular	O. Schuler	522,742	July 10	995	{ 247 248	68	204
Loom cloth-rollers. Mechanism for regulating the movement of	E. Kastler	527,750	Oct. 16	1764	425		355
Loom for weaving bordered fabrics	J. Göss and W. Varley	520,421	May 29	2585	626	67	1077
Loom for weaving double pile fabrics	G. and F. Priestley	529,955	Nov. 27	2529	610		1156
Loom for weaving narrow fabrics	J. O. Fryer	523,114	July 17	1632	406	68	339
Loom for weaving pile and other figured fabrics	W. C. Smith and J. Barlow	511,913	Jan. 2	315	74		61
Loom harness-elevator mechanism	T. Ehrenberg	512,172	Jan. 2	739	{ 179 180	66	141
Loom harness-motion	J. Magee	516,163	Mar. 6	689	162		1582
Loom-heddle	H. Vogelsang	527,165	Oct. 9	798	194	69	163
Loom Jacquard attachment	S. Bentley	519,374	May 8	801	196		706
Loom Jacquard apparatus	T. Halton	524,898	Aug. 21	1532	387	68	9-0
Loom Jacquard apparatus	O. W. Schaum	531,390	Dec. 25	2319	553		1684
Loom Jacquard mechanism	B. H. Gledhill	524,319	Aug. 14	600	{ 144 145	68	789
Loom Jacquard mechanism	B. H. Gledhill	526,365	Sept. 18	1820	{ 431 432		1512
Loom Jacquard mechanism	J. C. Liberty	530,050	Nov. 27	2728	{ 654 655	69	1196
Loom Jacquard mechanism	N. A. Woodhead	511,986	Jan. 2	429	101		82
Loom lease-rods	A. Minney	520,444	May 29	2632	635	67	1085
Loom let-off	C. N. Martin	530,647	Dec. 11	1028	250		1417
Loom let-off mechanism	J. C. Bill	513,667	Jan. 30	3559	876	66	805
Loom let-off mechanism	J. H. Mayer	520,603	May 29	2890	698		1134
Loom let-off mechanism	H. Wright	515,639	Feb. 27	2736	{ 681 682	66	1413
Loom. Moquette	E. Tymeson	529,636	Nov. 20	1990	{ 475 476 477		1048
Loom pattern mechanism	R. Beaumont and G. Washington	524,372	Aug. 14	714	174	68	808
Loom pattern mechanism	J. Hill and E. Smith	526,036	Sept. 18	1239	{ 286 287		1402
Loom picker-check	H. R. Mathews	530,438	Dec. 4	625	156	69	1330
Loom-picker motion	E. Guilbert	527,853	Oct. 23	1950	467		405
Loom picker-motion	J. H. Paige	518,424	Apr. 17	1713	{ 426 427	67	346
Loom picker-staff	J. Langirand	515,344	Feb. 27	2267	562		1323
Loom picking mechanism	O. Piper	515,533	Feb. 27	2574	637	66	1381
Loom. Pile-fabric	J. Corzilius	522,931	July 10	1296	{ 322 323		261
Loom. Pile-fabric	H. Wyman and G. Poole	520,150	Nov. 13	1124	{ 272 273	69	871
Loom. Pile-fabric	H. Wyman and G. Poole	529,151	Nov. 13	1126	273		871
Loom pile-wire	G. Segsneider	512,063	Jan. 2	557	132	66	106
Loom pile-wire	G. Segsneider	523,569	July 31	2959	737		613
Loom positive shuttle-motion	E. H. Graham	527,783	Oct. 23	1825	439	69	384
Loom positive shuttle-motion	E. H. Graham	527,784	Oct. 23	1826	439		384
Loom selvage-forming apparatus	E. Ashworth and A. H. Oldham	514,433	Feb. 13	754	193	66	1013
Loom shedding mechanism	G. W. Stafford	516,169	Mar. 6	699	165		1584
Loom shedding mechanism	C. H. Thomas	517,129	Mar. 27	2342	{ 552 553	66	1940
Loom shedding mechanism	H. Wenzel	527,093	Oct. 9	675	{ 165 166		142
Loom-shuttle	P. L. Kobertz	514,232	Feb. 6	445	107	66	936
Loom-shuttle	J. H. Morin	525,814	Sept. 11	859	196		1320
Loom-shuttle	O. Piper	516,108	Mar. 6	601	141	66	1565
Loom-shuttle	I. Rushworth	526,748	Oct. 2	131	31		26
Loom-shuttle-box-operating mechanism	H. Bardsley	528,758	Nov. 6	415	101	69	722
Loom-shuttle-box-operating mechanism	L. H. Downing	529,163	Nov. 13	1144	276		875
Loom-shuttle-box-operating mechanism	G. W. Stafford	521,576	June 19	1474	345	67	1496
Loom-shuttle-box-operating mechanism	G. W. Stafford	521,577	June 19	1476	345		1496
Loom shuttle. Carpet	W. P. Kirkpatrick	525,660	Sept. 4	573	137	68	1256
Loom shuttle-guard	A. Waddington	529,763	Nov. 27	2203	525		1035
Loom shuttle-guide	G. W. Farmer	528,505	Oct. 30	3102	752	69	630
Loom shuttle-picking mechanism	M. T. Bartelt, C. Golle, and G. Stein	524,571	Aug. 14	1040	{ 256 257		869
Loom-shuttle. Self-threading	J. B. Daudelin	530,329	Dec. 4	448	112	69	1296
Loom-shuttle spindle	H. A. Foster	515,206	Feb. 20	2016	503		1264
Loom-shuttle tension device	I. A. Hall	531,029	Dec. 18	1659	{ 393 394	69	1547
Loom-shuttle tension device	J. Sweeney and G. Stroble	528,895	Nov. 6	676	163		770
Loom-shuttle-threading device	E. A. Bourque	522,583	July 10	704	179	68	154
Loom-shuttles. Operating electric	L. W. Lombard	513,615	Jan. 30	3149	774		727
Loom. Slat-and-wire-fabric	C. E. Parks and L. Mollart	517,058	Mar. 27	2227	528	66	1916
Loom stop-motion	B. S. Taylor and C. Heritage	520,277	May 22	2351	{ 570 571		1017
Loom. Swivel	J. Kennedy	512,474	Jan. 9	1255	302	66	249
Loom. Swivel	J. T. Kennedy	512,475	Jan. 9	1253	303		249
Loom. Swivel	H. and P. D. Westerhoff	519,202	May 15	1532	374	67	851
Loom-temple	F. A. Garnsey	524,587	Aug. 14	1062	262		873
Loom-temple	R. P. Pearson	514,867	Feb. 13	1479	372	66	1151
Loom-temple	R. Rigby	515,720	Feb. 27	2873	716		1440
Loom-temple	T. Sykes	525,566	Sept. 4	420	101	68	1229
Loom warp-slackening mechanism	G. F. Hutchins	523,574	July 24	2422	608		499
Loom warp stop-motion	O. Smith	515,536	Feb. 27	2577	638	66	1381

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Loom warp-stop motion	O. Smith	521,298	June 12	967	{ 229 230	67	1385
Loom weft-fork	W. Hinchliffe	513,928	Jan. 30	3644	898	66	822
Loom weft-stop-motion	O. Piper and J. E. Newton	515,532	Feb. 27	2573	637	66	1380
Loom wire heddle	M. Strakosch	513,063	Jan. 16	2236	538	66	449
Looms. Electric shuttle-motion for	L. W. Lombard	514,087	Feb. 6	175	41	66	837
Looms. Electric shuttle-motion for	L. W. Lombard	514,088	Feb. 6	179	42	66	888
Looms. Electric shuttle-motion for	L. W. Lombard	514,089	Feb. 6	182	42	66	888
Looms electrically. Apparatus for forming sheds in	J. Kaufmann	515,775	Mar. 6	81	19	66	1468
Looms for weaving pile fabrics. Wire-retaining device for	H. Hardwick	529,615	Nov. 20	1962	467	69	1043
Looms. Self-threading shuttle for	J. H. Nason	528,550	Nov. 6	45	12	69	655
Looms. Shuttle-operating mechanism for narrow-ware	A. Weinmar	519,896	May 15	1682	410	67	880
Loop-banding machine	J. M. Parker	518,425	Apr. 17	1714	{ 427 428	67	346
Lounge	H. Kern	514,830	Feb. 13	1422	359	66	1140
Lounge or couch. Folding	T. Q. Hall	517,102	Mar. 27	2303	543	66	1832
Low-pressure alarm	G. Heffner	525,206	Aug. 28	2147	524	63	1096
Low-pressure alarm	F. L. Street	511,813	Jan. 2	108	27	66	24
Low-water boiler-alarm	F. M. Ashley	515,037	Feb. 20	1749	442	66	1213
Lozenge-machine	H. Lucas	521,660	June 19	1615	379	67	1522
Lubricant for bicycle chains and bearings	W. L. Sargent	519,096	May 1	270	67	587	
Lubricating cutting-edges of tools. Means for	P. Chouteau	522,538	July 10	711	181	68	155
Lubricating device	H. A. and H. A. House, Jr.	521,958	June 26	2160	518	67	1641
Lubricating device	H. P. Humphrey	517,743	Apr. 3	561	137	67	109
Lubricating device	S. V. Kennedy	530,590	Dec. 11	924	{ 226 227	69	1400
Lubricating device for car or other axles or shafts	J. S. Washburn	519,212	May 1	493	119	67	633
Lubricator; See Automatic lubricator. Axle-lubricator. Axle-box lubricator.	Bicycle-lubricator. Car-wheel lubricator. Journal-lubricator.						
Lubricator	G. Binder	525,089	Aug. 28	1948	476	68	1062
Lubricator	G. Binder	529,473	Nov. 20	1725	410	69	999
Lubricator	B. A. Burgess	518,585	Apr. 24	1992	493	67	410
Lubricator	C. Conse	521,702	June 19	1682	395	67	1535
Lubricator	W. W. Dashiell	526,025	Sept. 18	1221	232	63	1399
Lubricator	C. A. Delaney	517,266	Mar. 27	2570	{ 602 603	66	1983
Lubricator	W. A. Downes	524,534	Aug. 14	1056	260	68	572
Lubricator	J. F. Evans	516,087	Mar. 6	571	134	66	1559
Lubricator	J. Q. Finch	518,058	Apr. 10	1072	271	67	212
Lubricator	W. H. Hallock	522,204	July 3	35	9	68	9
Lubricator	T. J. Hart	528,429	Oct. 30	2971	719	69	605
Lubricator	T. R. Hill	513,506	Jan. 30	2960	728	66	693
Lubricator	G. A. Hofmeyer	515,536	Feb. 27	2655	659	66	1397
Lubricator	T. G. Howells	531,590	Dec. 25	2065	640	69	1752
Lubricator	C. W. Hunt	529,125	Nov. 13	1079	260	69	863
Lubricator	J. P. Hunter	526,838	Oct. 2	275	67	69	52
Lubricator	P. H. and J. G. Knipper	524,112	Aug. 7	243	56	68	706
Lubricator	J. E. Lagerman	515,590	Feb. 27	2661	{ 660 661	66	1398
Lubricator	R. Lawrence and J. Blackford	518,257	Apr. 17	1414	354	67	291
Lubricator	J. Longins	517,467	Apr. 3	90	20	67	19
Lubricator	N. Leidgen	529,393	Nov. 20	1574	374	69	973
Lubricator	R. W. McIntyre and G. A. H. Sprague	518,823	Apr. 24	2405	595	67	432
Lubricator	L. Mertens	515,404	Feb. 27	2367	587	66	1342
Lubricator	W. P. Miller	531,129	Dec. 18	1837	436	69	1580
Lubricator	W. O. Nelson	517,553	Apr. 3	226	52	67	45
Lubricator	M. F. Nester	516,104	Mar. 6	592	139	66	1563
Lubricator	L. O. Orton	530,715	Dec. 11	1134	275	69	1436
Lubricator	H. Pennington	526,316	Oct. 2	240	58	69	45
Lubricator	J. B. Parvis	517,127	Mar. 27	2340	{ 551 552	66	1939
Lubricator	C. H. Ridsdale	517,300	Mar. 27	2631	617	66	1995
Lubricator	F. W. Robertshaw	526,503	Sept. 25	2070	493	68	1570
Lubricator	W. A. Seibel	519,394	May 8	841	204	67	713
Lubricator	F. E. Small	531,225	Dec. 18	2024	4-2	69	1613
Lubricator	W. F. Van Guysling	527,516	Oct. 16	1383	337	69	285
Lubricator	P. S. Whiting	519,055	May 1	188	45	67	572
Lubricator	C. C. Young	513,290	Jan. 23	2598	629	66	590
Luggage-carrier	G. F. Hall	530,104	Dec. 4	46	13	69	1224
Luggage-carrier	J. H. Steen	515,622	Feb. 27	2712	675	66	1408
Lumber-binder	T. A. Barber	524,663	Aug. 14	1193	292	68	897
Lumber-drier	W. L. Burton and H. Meyerding	521,846	June 26	1936	464	67	1599
Lumber-drying apparatus	G. T. Schultze	519,352	May 8	769	183	67	699
Lumber-drying kiln	W. P. Murphy	531,325	Dec. 25	2203	{ 527 528	69	1063
Lumber-gage	H. H. Britt	524,930	Aug. 21	1649	403	68	991
Lumber-handling apparatus for drying-kilns	H. G. Wadley	523,609	July 24	2478	622	68	503
Lumber-jack	C. D. Clarke	517,211	Mar. 27	2486	585	66	1967
Lumber-load binder	E. R. Cassaday and W. Weaver	518,207	Apr. 10	1330	332	67	260
Lumber. Metal-plated	C. D. Kubach	514,233	Feb. 6	446	107	66	936
Lumber or composition material. Artificial	G. S. Mayhew	517,822	Apr. 3	672	168	67	130
Lumber-register	W. H. Emerson	525,008	Aug. 28	1796	{ 438 439	68	1035
Lumber-stamping attachment for sawing or trimming machines	J. P. Riedy	529,195	Nov. 13	1206	291	69	885
Lumber-trimmings for boxes, &c. Preparing	A. T. Linderman	517,348	Mar. 27	2707	636	66	2011
Lunch-box	E. Haskell	524,499	Aug. 14	918	226	68	846
Lunch-heater	A. L. White	530,146	Dec. 4	117	30	69	1337
Lung-power tester and developer	J. K. Hanlon	524,899	Aug. 21	1584	328	68	980

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Macerator for fruit, &c.	O. E. Davidson	525,004	Aug. 28	1788	{ 436 437 }	68	1034
Machine-base. Adjustable	J. J. Wood	526,666	Sept. 18	1294	{ 299 300 }	68	1412
Machine-table	J. E. Bradley	522,004	June 26	2249	539	67	1657
Machinery. Rope or cable system for operating	J. H. Watts	515,416	Feb. 27	2390	592	66	1345
Magazine-camera	A. A. Foiret	524,802	Aug. 21	1427	349	68	953
Magazine-camera	G. P. C. Maroniez	528,176	Oct. 30	2530	{ 613 614 }	69	527
Magazine-camera	J. F. Parsons	524,949	Aug. 21	1672	{ 409 410 }	68	995
Magazine-camera	J. Tascher	525,239	Aug. 28	2197	{ 535 536 }	68	1105
Magazine. Dust-proof single-delivery cover-glass	A. H. Cole	530,926	Dec. 18	1477	350	69	1515
Magazine or book holder	F. Barwick	531,496	Dec. 25	2511	598	69	1721
Magnet	A. H. Hoyt	528,635	Nov. 6	211	51	69	684
Magnet. Electro	C. C. Gerlach	529,325	Nov. 13	1434	345	69	928
Magnet. Electro	F. R. McBerty	512,386	Jan. 9	1091	{ 264 265 }	66	218
Magnet for electric machines. Field	A. Schmid	519,097	May 1	270	54	67	587
Magnet. Permanent	A. T. Collier	518,092	Apr. 10	1126	224	67	221
Magnets. Coil for electro	N. Tesla	512,340	Jan. 9	1006	246	66	202
Magnets. Machine for winding electro	R. Varley, Jr	512,769	Jan. 16	1758	{ 417 418 }	66	360
Magnets. Means for reducing the apparent energy supplied to alternating-current	J. F. Kelly	518,739	Apr. 24	2272	564	67	459
Magnets of alternating-current dynamos. Means for exciting field	L. Bell	518,217	Apr. 17	1353	338	67	280
Magnets of dynamo-electric machines or motors. Adjuster for field	M. Waddell	527,225	Oct. 9	893	217	69	182
Magnetic engine for reciprocating tools	H. S. McKay	519,870	May 15	1642	399	67	872
Magnetic separator	H. Carmichael	521,906	June 26	2046	493	67	1621
Magnetic separator	W. H. Williams	528,054	Oct. 23	2313	558	69	472
Magnetic separator	W. H. Williams	528,055	Oct. 23	2316	{ 558 559 }	69	473
Magnetic separators. Feeding mechanism for	G. Conkling	517,734	Apr. 3	534	130	67	104
Magnetizing-coil	J. D. Ihlder	516,204	Mar. 13	771	180	66	1613
Mail-bag	W. Brubaker	527,402	Oct. 16	1193	293	69	250
Mail-bag	A. F. George	530,683	Dec. 11	1085	{ 263 264 }	69	1427
Mail-bag	J. C. Jenkins	515,229	Feb. 20	2059	513	66	1271
Mail-bag catcher	H. N. Fleming	527,548	Oct. 16	1435	{ 349 350 }	69	295
Mail-bag crane	W. H. Chappel and J. C. Wagner	513,032	Jan. 16	2193	523	66	440
Mail-bag fastener	L. Arnold	514,404	Feb. 6	714	181	66	988
Mail-bag fastener	S. M. Ferguson	514,183	Feb. 6	342	82	66	918
Mail-bag fastener	L. Williams	516,254	Mar. 13	854	199	66	1623
Mail-bag hanger	J. A. Braniff	531,360	Dec. 25	2270	541	69	1675
Mail-bags to or from trains in motion. Apparatus for delivering	E. Davies	528,083	Oct. 23	2371	572	69	483
Mail-box	J. G. Cutler	519,057	May 1	190	45	67	573
Mail-box	O. P. Johnston	525,498	Sept. 4	299	73	68	1207
Mail-box	O. P. Johnston and C. M. Gates	512,549	Jan. 9	1364	330	66	269
Mail-box	J. J. Weicher	513,064	Jan. 16	2237	538	66	449
Mail-box. House	E. F. Kinsey	518,924	Apr. 24	2570	{ 635 636 }	67	514
Mail-crane	M. J. Grosz	529,071	Nov. 13	992	{ 236 237 }	69	846
Mail-delivering apparatus	D. Cooke	516,522	Mar. 13	1312	312	66	1712
Mail-marking machine	W. Barry	511,745	Jan. 2	2	1 2	66	3
Mail-marking machine	F. N. Ethridge	522,049	June 26	2316	556	67	1609
Mail-marking machine	F. N. Ethridge	523,467	July 24	2246	{ 561 565 }	68	465
Mail-marking machine	M. V. B. Ethridge	521,566	June 19	1459	{ 341 342 }	67	1493
Mail-marking machine	M. V. B. Ethridge and H. E. Waite	521,764	June 19	1808	429	67	1557
Mail-matter. Machine for marking	F. N. Ethridge	521,564	June 19	1450	{ 338 339 340 }	67	1492
Mail-transporting apparatus	R. A. Morgan, Jr	517,619	Apr. 3	330	78	67	65
Mailing-machine	J. A. Horton	519,185	May 1	440	108	67	623
Mailing-tube	G. P. McIntyre	524,860	Aug. 21	1528	373	68	970
Malt-grinding mill	J. Brauer	522,584	July 10	705	{ 179 180 }	68	154
Malt-kiln and method of drying malt	W. H. Prinz	515,840	Mar. 6	171	42	66	1485
Malt liquors. Apparatus for cooling and aerating	H. E. Deckebach	518,941	May 1	12	3	67	539
Malt liquors. Apparatus for making	A. W. Billings	515,319	Feb. 27	2229	552	66	1316
Malt liquors. Apparatus for the production of	J. A. Manz	512,311	Jan. 9	958	234	66	194
Malt liquors. Heater and cooler for fermented	J. H. Kersenbrock	514,335	Feb. 20	1589	399	66	11-6
Malted food	M. Watson	531,013	Dec. 18	1632	...	69	1542
Malting apparatus	F. Knüttel	513,467	Jan. 23	2884	709	66	644
Malting-floor	J. F. Dornfeld	518,666	Apr. 24	2131	533	67	434
Malting grain. Method of and apparatus for	W. H. Prinz	515,841	Mar. 6	175	42	66	1486
Malting-machine	A. Schultz	529,842	Nov. 27	2342	{ 557 558 }	69	1122
Mandolin	T. T. Seal	518,900	Apr. 24	2531	626	67	507
Mandrel. Expanding	H. Berner	525,645	Sept. 4	535	130	68	1251
Mandrel. Expanding	S. W. Twining and E. R. Collins	522,699	July 10	694	221	68	187
Mangle	M. F. Dannmeyer	515,996	Mar. 6	428	98, 99	66	1552
Mangle	P. O. Johnson	516,566	Mar. 13	1379	328	66	1725
Mangle	P. O. Johnson	530,589	Dec. 11	923	226	69	1400
Manhole-cover	T. P. Greger	525,101	Aug. 28	1970	462	68	1065
Manhole-cover	C. Parkins	528,387	Oct. 30	2697	702	69	592

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Manhole-cover	J. P. Roe	521,733	June 19	1738	413	67	1546
Manhole-covers. Yoke for	J. P. Roe	521,732	June 19	1737	413	67	1546
Manicure implement	H. Clayton	512,277	Jan. 9	904	219	66	183
Manicure-instrument	C. J. Bailey	528,317	Oct. 30	2781	671	69	572
Manifolding-apparatus gage	L. M. Bannan	522,447	July 3	474	120	68	94
Manifolding device	E. B. Tilton	530,806	Dec. 11	1280	309	69	1464
Mantel. Sheet-metal	J. Graves	524,714	Aug. 21	1284	314	68	926
Manual motor	M. Johnson	522,376	July 3	344	88, 89	68	68
Manual recorder and indicator	H. Cook	525,839	Sept. 11	915	205	68	1330
Manure-spreader	D. B. Merrell	531,206	Dec. 18	1985	471	69	1606
Map-case	W. P. Hussey	523,814	July 31	2855	709	68	594
Maps, &c. Revolving holder for	A. B. Fretz'	519,763	May 15	1464	355	67	839
Marble. Making artificial	P. A. Moreau	525,024	Aug. 28	1825		68	1041
Marble. Manufacture of artificial	L. Natban	524,907	Aug. 21	1596	390	68	982
Marbles. Manufacturing artificial	F. Grand' Montagne	527,969	Oct. 23	2166		69	446
Marine signal	G. W. Stewart	515,624	Feb. 27	2716	676	66	1409
Marker. Land	H. Bowers	529,585	Nov. 20	1919	458	69	1035
Marker. Land	S. J. Conkwright	527,362	Oct. 9	1122	274	69	223
Marking device	E. W. Dodge	521,897	Jan. 30	3605	888	66	814
Marking off corn-rows. Device for	H. D. Ayre	512,573	Jan. 9	1400	338	66	276
Marking-tool	L. Schaefer	522,433	July 3	457	115	68	91
Mash. Alcoholic-ferment	J. Takamine	525,825	Sept. 11	890		68	1325
Mash-machine	R. Garich	512,693	Jan. 16	1602	384	66	330
Mashing-machine	A. Schultz	531,601	Dec. 25	2686	644	69	1755
Mask. Fire	G. Pozdena and F. Churan	521,939	June 26	2115	507	67	1634
Mask. Protector	W. T. Moran	518,822	Apr. 24	2404	595	67	482
Massage. Electric hand appliance for	A. J. Speare	524,120	Aug. 7	258	60, 61	68	709
Mast-hoop	W. R. Baker	527,167	Oct. 9	801	195	69	163
Master-key lock	J. Roche	520,121	May 22	2063	504	67	965
Mat:							
See Building-mat. Lantern-slide mat.							
Mat-cutting machine	F. Wheeler	513,851	Jan. 30	3531	869	66	800
Mats, floors, &c. Wearing surface for door	H. D. Whiteley	527,094	Oct. 9	678	166	69	142
Match	P. Lorenz and R. Wuppermann	525,150	Aug. 28	2054	501	68	1081
Match-box	M. Strakosch	528,186	Oct. 30	2547	618	69	530
Match-box	J. Sule	526,418	Sept. 25	1937	461	68	1545
Match-box	J. P. Wright	521,903	June 26	2041	492	67	1621
Match-box and ash-receiver. Combined	T. Schafer	523,599	July 24	2463	618	68	506
Match-box and cigar-tip cutter. Combined	T. W. Foster	517,546	Apr. 3	213	49	67	43
Match-box holder	J. Anderssen	512,934	Jan. 16	2041	483	66	412
Match-box. Suspensible	J. M. Hoimann	531,185	Dec. 18	1944	462	69	1600
Match-holder and cigar-cutter	W. A. Alexander	513,472	Jan. 30	2896	714	66	681
Match-making machine	E. B. Beecher and J. P. Wright	528,457	Oct. 30	3018	729	69	613
Match-making machine	J. C. Donnelly	519,150	May 1	371	88, 89	67	610
Match-making machine	J. C. Donnelly	524,197	Aug. 7	391	93, 94	68	733
Match-making machine	H. A. and W. B. La Chicotte	521,029	June 5	488	116	67	1225
Match-making machine	L. H. Montross	525,791	Sept. 11	816	186	68	1313
Match-receptacle	F. D. Halsey	531,115	Dec. 18	1812	490	69	1575
Match-safe	R. D. Goodlett	518,994	May 1	93	22	67	553
Match-safe	A. Hansen	519,949	May 15	1764	432	67	895
Match-safe	C. H. Renter	528,691	Nov. 6	306	75	69	701
Match-safe. Alarm	T. Kissinger	520,063	May 22	1961	480	67	946
Match. Safety	W. Barnhurst	521,079	June 5	582	137	67	1302
Match-splint-assembling machine	J. C. Donnelly	524,196	Aug. 7	386	92, 93	68	732
Match-splint coiling or winding machine	F. Schafer	512,061	Jan. 2	552	131	66	105
Match-splint-cutting machine	F. Schafer	512,062	Jan. 2	555	131	66	106
Match-splints. Machine for coiling	C. B. Andrews	530,875	Dec. 11	1388	330	69	1483
Match-stick-bunching machine	D. F. Eisenhart	515,201	Feb. 20	2005	500	66	1261
Match-stick-bunching machine	E. H. Eisenhart	515,756	Mar. 6	37	12	66	1462
Matches, toothpicks, &c. Machine for makingsplints for	E. B. Benham and H. E. Barlow	530,382	Dec. 4	542	135	69	1314
Matrix-bar and making same	A. S. Capehart	529,440	Nov. 20	1665	396	69	989
Matrix-drying apparatus	R. H. Healey	520,642	May 29	2950	714	67	1145
Matrix-drying machine	E. and A. E. Hall	518,569	Apr. 17	1961	484	67	389
Matrix-lines. Mechanism for justifying	C. Forth and H. Glenzer	520,140	May 22	2114	515	67	972
Matrix-making and type-setting machine	H. Lee	516,742	Mar. 20	1629	406	66	1798
Matrix-making machine	M. Lane	530,279	Dec. 4	356	88, 89	69	1220
Matrix molding and drying apparatus	W. E. Post and S. J. Nevins	512,215	Jan. 2	807	195	66	153
Matte from slag. Separating	M. W. Iles	515,081	Feb. 20	1813	457	66	1226
Mattress	G. S. Perren	527,287	Oct. 9	1002	243	69	200
Mattress and bed-pan. Combined	G. C. Dougherty	522,292	July 3	204	55	68	42
Mattress-filling machine	E. T. Gaskill	530,040	Nov. 27	2699	648	69	1191
Mattress-filling machine	W. H. Putnam	519,203	May 1	472	115	67	628
Mattress former and press	W. G. Stuart and C. H. Delp	512,129	Jan. 2	664	159	66	127

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Mattress-stuffing machine.....	R. R. Thompson.....	520,170	May 22	2169	{ 527 528 529	67	982
Mattress-weaving machine. Wire.....	J. M. Finch and C. Pfeiffer.....	515,202	Feb. 20	2009	501	66	1262
Mattress. Wire.....	D. H. Gail.....	516,195	Mar. 13	755	176	66	1609
Measure and funnel. Combined.....	R. J. Gillham.....	520,307	May 22	2395	582	67	1025
Measure and funnel. Combined.....	B. G. Reese and D. B. Cade.....	525,232	Aug. 28	2157	534	68	1104
Measure and square. Combined tape.....	A. E. Krebs.....	530,111	Dec. 4	62	16	69	1227
Measure case. Tape.....	W. L. E. Keuffel.....	522,064	June 26	2336	561	67	1674
Measure for laying off dress-charts.....	L. A. Call.....	514,063	Feb. 6	136	32, 33	66	879
Measure. Gage.....	W. J. and M. R. Littell.....	526,926	Oct. 2	436	108	69	81
Measure. Liquid.....	H. Gregson.....	515,211	Feb. 20	2025	505	66	1265
Measure. Rotary.....	J. Gray.....	530,686	Dec. 11	1089	264	69	1428
Measure. Scale.....	E. Karschner.....	526,448	Sept. 25	1993	475	68	1555
Measure. Steel tape.....	W. L. E. Keuffel.....	521,960	June 26	2162	519	67	1642
Measure. Tailor's.....	J. A. Alm.....	515,511	Feb. 27	2531	627	66	1372
Measure. Tailor's adjustable.....	W. Veitch.....	517,079	Mar. 27	2261	535	66	1923
Measure. Tape.....	F. L. Church.....	527,194	Oct. 9	841	205	69	172
Measurements. Adjustable draft for roof and brace.....	B. F. Morgan.....	515,497	Feb. 27	2511	622	66	1369
Measurer and cutter. Wall-paper-border.....	E. Hoke.....	526,038	Sept. 18	1244	288	68	1403
Measurer. Automatic grain.....	G. Anderson.....	513,697	Jan. 30	3292	811	66	753
Measuring and drafting apparatus. Garment.....	M. Horn.....	525,019	Aug. 28	1813	442	68	1038
Measuring and indicating device.....	R. Meyer.....	516,686	Mar. 20	1586	378	66	1781
Measuring and marking machine. Fabric.....	A. H. Sutton.....	526,061	Sept. 18	1282	{ 296 297 298	68	1410
Measuring and recording apparatus. Speed and distance.....	H. Haussbälter.....	512,439	Jan. 9	1188	{ 289 290 291	66	236
Measuring and recording electric currents. Apparatus for.....	W. Thomson.....	521,394	June 12	1136	{ 268 269 270	67	1419
Measuring and registering apparatus. Grain.....	C. A. Gibbs.....	529,068	Nov. 13	987	{ 234 235 236	69	845
Measuring and registering device.....	G. Krueger.....	531,047	Dec. 18	1691	{ 401 402 403	69	1553
Measuring apparatus. Deep-well.....	P. Scott.....	516,635	Mar. 13	1494	355	66	1747
Measuring apparatus. Hat.....	A. Allstädt.....	530,673	Dec. 11	1068	260	69	1424
Measuring, cutting, and stitching fabrics. Machine for.....	W. H. Palmer, Jr.....	516,357	Mar. 13	1016	{ 241 242 243	66	1659
Measuring device.....	C. W. Schramm.....	529,202	Nov. 13	1220	291	69	887
Measuring device. Cloth.....	W. E. Clarke.....	524,755	Aug. 21	1349	329	68	938
Measuring device. Weaver's.....	F. X. Caron.....	523,759	July 31	2759	685	68	576
Measuring dress-skirts. Device for.....	A. S. Newcomb.....	519,090	May 1	258	61	67	585
Measuring electric currents. Means for.....	L. T. Robinson.....	516,839	Mar. 20	1835	434	66	1827
Measuring electricity. Apparatus for.....	W. Frise-Greene.....	522,870	Nov. 6	641	153	69	763
Measuring implement. Tailor's.....	D. Hawley.....	518,947	May 1	20	6	67	940
Measuring-instrument.....	L. M. Hodge.....	518,103	Apr. 10	1144	288	67	225
Measuring-instrument. Distance.....	J. L. Buford.....	519,319	May 8	694	{ 170 171 172	67	685
Measuring-instrument. Electrical.....	M. M. Garver and E. G. Willyoung.....	514,593	Feb. 13	1036	{ 260 261 262	66	1065
Measuring-instrument. Electrical.....	H. Herberts.....	526,487	Sept. 25	2050	488	68	1565
Measuring-instrument. Electrical.....	R. M. Hunter.....	517,162	Mar. 27	2401	566	66	1950
Measuring-instrument. Electrical.....	R. M. Hunter.....	520,361	May 22	2494	603	67	1045
Measuring-instrument. Electrical.....	E. R. Knowles and L. T. Robinson.....	516,823	Mar. 20	1806	428	66	1821
Measuring-instrument. Electrical.....	E. Weston.....	522,948	July 10	1325	330	68	267
Measuring-instrument. Electrical.....	E. Weston.....	522,950	July 10	1330	331	68	268
Measuring-instrument. Electrical.....	E. Weston.....	529,434	Nov. 20	1652	393	69	986
Measuring-instrument. Electrical.....	E. Weston.....	529,435	Nov. 20	1654	{ 393 394 395	69	987
Measuring-instrument. Electrical.....	E. G. Willyoung.....	514,581	Feb. 13	1010	255	66	1060
Measuring-instrument. Electrical.....	E. G. Willyoung.....	516,855	Mar. 20	1858	440	66	1831
Measuring-instrument. Electrical.....	E. G. Willyoung and M. M. Garver.....	514,582	Feb. 13	1012	{ 255 256 257	66	1061
Measuring-instrument for multiphase systems. Electric.....	E. W. Mix.....	518,265	Apr. 17	1430	353	67	294
Measuring-instrument for switchboards. Electrical.....	J. Van Vleck.....	529,433	Nov. 20	1649	393	69	986
Measuring-instruments. Damping device for electrical.....	F. Holden.....	518,245	Apr. 17	1400	350	67	289
Measuring-instruments. Safety device for electrostatic.....	W. E. Ayrton and T. Mather.....	516,341	Mar. 13	984	234	66	1653
Measuring-instruments. Scale and index for electrical.....	E. Weston.....	527,034	Oct. 2	595	144	69	112
Measuring machine. Cloth.....	G. P. Conant.....	517,437	Apr. 3	25	6	67	7
Measuring machine. Cloth.....	H. Minister.....	527,617	Oct. 16	1545	374	69	315
Measuring machine. Cloth.....	J. H. Vanderburgh.....	520,463	May 29	2656	642	67	1091
Measuring machine. Cordage.....	J. D. Boatwright.....	530,385	Dec. 4	547	136	69	1315
Measuring machine. Leather.....	J. E. Fortin.....	514,821	Feb. 13	1406	{ 354 355 356	66	1137
Measuring machine. Rope.....	C. E. Mathers.....	529,285	Nov. 13	1362	{ 326 327 328	69	913
Measuring machine. Warp.....	T. Blackburn.....	515,139	Feb. 20	1907	479	66	1244
Measuring-machines. Signaling device for automatic.....	J. H. Wiemers.....	526,915	Oct. 2	416	103	69	78
Measuring or indicating instrument. Electrical.....	S. E. Hitt.....	514,075	Feb. 6	156	16, 37	66	883
Measuring or packaging fabrics. Speed-regulating attachment for machines for.....	R. W. Watson.....	526,275	Sept. 18	1649	329	68	1477
Measuring, registering, and sacking machine. Grain.....	J. U. Teetor.....	515,177	Feb. 20	1970	491	66	1255
Measuring-tank.....	J. Hall.....	529,326	Nov. 13	1435	345	69	928
Measuring-tank.....	O. James.....	524,900	Aug. 21	1585	388	68	981
Measuring textile fabrics. Apparatus for.....	F. C. Stephan.....	519,277	May 1	635	147	67	654
Measuring-vessel.....	W. F. Keepers.....	524,206	Aug. 7	140	97	68	736
Measuring-vessel.....	W. A. McElhiney.....	512,837	Jan. 16	1870	{ 412 413 414	66	381
Measuring-vessel.....	G. W. McKim.....	514,377	Feb. 6	675	171	66	980
Measuring water from lakes, &c. Machine for.....	W. T. Lambie.....	514,559	Feb. 13	969	244	66	1054

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Meat-chopping machine.	J. W. Farnoff.	529,253	Nov. 13	1311	315	69	903
Meat-chopping machine.	A. J. Kull.	519,000	May 1	101	24	67	555
Meat-chopping machine.	W. Scheffel.	517,148	Mar. 27	2371	560	66	1945
Meat-cutter.	G. and E. D. Ashley.	527,921	Oct. 23	2069	496	69	428
Meat-cutter.	C. Broeg.	517,377	Mar. 27	2754	{ 647 648 }	{ 66 66 }	2020
Meat-cutter.	W. Koenen.	522,424	July 3	443	112	68	88
Meat-cutter.	T. Williams, Jr.	512,528	Jan. 9	1334	322	66	263
Meat-cutter.	O. D. Woodruff.	529,149	Nov. 13	1121	272	69	870
Meat-cutter. Rotary.	L. T. Snow.	518,047	Apr. 10	1058	268	67	210
Meat-cutting machine.	M. Lytch.	521,886	June 26	2001	483	67	1613
Meat, &c. Machine for cutting.	A. Scheithauer.	513,342	Jan. 23	2673	648	66	604
Meat-mixer.	L. Wacner.	514,048	Feb. 6	117	27, 28	66	875
Meat-mixing machine.	J. H. Schaefer.	523,646	July 24	2542	638	68	521
Meat-roaster.	J. Stroud. (Reissue).	11,451	Oct. 30	3122	{ 756 757 }	{ 69 69 }	633
Meat-tenderer.	J. W. Francke.	525,595	Sept. 4	460	111	68	1237
Meat-tenderer.	D. J. Hake.	524,436	Aug. 14	821	200	68	829
Meat-tenderer.	A. C. Wagner.	520,173	May 22	2176	530	67	984
Meat-tendering machine.	J. Hehsdörfer.	525,077	Aug. 28	1925	{ 471 472 }	{ 68 68 }	1058
Meats. Preserving.	J. and C. Zehner.	512,786	Jan. 16	1783	....	66	364
Mechanical motor.	P. Frichette.	514,356	Feb. 6	642	184	66	974
Mechanical motor.	T. A. Teate.	512,764	Jan. 16	1753	{ 415 416 }	{ 66 66 }	358
Mechanical movement.	S. F. Alherger.	520,626	May 29	2923	707	67	1140
Mechanical movement.	T. Beach.	524,371	Aug. 14	712	173	68	808
Mechanical movement.	W. W. Beaumont.	526,213	Sept. 18	1555	364	68	1459
Mechanical movement.	L. S. Bryant.	512,094	Jan. 2	608	146	66	117
Mechanical movement.	L. S. Bryant.	518,412	Oct. 30	2942	711	69	600
Mechanical movement.	J. C. Butler.	521,780	June 26	1840	438	67	1580
Mechanical movement.	S. B. Curtis.	530,638	Dec. 11	1012	247	69	1415
Mechanical movement.	J. Linton.	523,725	July 31	2704	669	68	565
Mechanical movement.	F. W. McArdle.	523,170	July 17	1731	433	68	357
Mechanical movement.	F. Meisel.	514,723	Feb. 13	1256	813	66	1107
Mechanical movement.	R. Miehle.	520,828	June 5	130	28, 29	67	1221
Mechanical movement.	J. T. Pennela.	512,896	Jan. 16	1978	469	66	401
Mechanical movement.	A. Sharp.	531,340	Dec. 25	2229	533	69	1666
Mechanical movement.	R. Sterling.	521,393	June 12	1135	268	67	1418
Mechanical movement.	V. Tomsa.	514,791	Feb. 13	1363	{ 841 842 }	{ 66 66 }	1128
Mechanically-propelled figure.	S. Wilson.	526,984	Oct. 2	514	126	69	96
Medallion. Souvenir.	S. May and L. M. Aron. (Reissue).	11,455	Nov. 27	2773	669	69	1204
Medical case.	W. T. Eastes.	512,101	Jan. 2	620	149	66	119
Medical compound.	J. V. Wilson and C. R. Wores.	515,455	Feb. 27	2449	....	66	1357
Medical purposes. Treating air for.	R. W. Rogers.	529,684	Nov. 20	2070	495	69	1063
Medicinal food and preparing same.	E. O. Tafin.	525,818	Sept. 11	869	....	68	1322
Medicine or sample case.	F. C. Gundlach.	526,466	Sept. 25	2049	487	68	1565
Medicine. Time-indicator for taking.	O. Kettmann.	519,913	May 15	1706	416	67	884
Medicines. Device for administering.	W. B. Pollard.	518,161	Apr. 10	1237	310	67	241
Melharmonium.	L. P. Schpanowsky.	530,605	Dec. 11	949	233	69	1404
Menu-card and check. Combined.	J. A. Newberry.	528,889	Nov. 6	667	161	69	768
Merry-go-round.	W. Mumbrauer.	515,088	Feb. 20	1323	460	66	1228
Merry-go-round.	J. C. Somers.	516,616	Mar. 13	1461	345	66	1741
Merry-go-round.	J. Thompson.	514,393	Feb. 6	698	176	66	984
Metal and making same. Composition of.	P. Inch.	529,620	Nov. 20	1968	....	69	1044
Metal articles. Apparatus for forming.	J. Robertson.	524,505	Aug. 14	935	231	68	849
Metal articles. Apparatus for forming.	J. Robertson.	524,509	Aug. 14	941	232	68	850
Metal articles. Forming.	J. Robertson.	524,508	Aug. 14	939	232	68	849
Metal articles. Method of and apparatus for forming.	J. Robertson.	524,504	Aug. 14	927	{ 229 231 }	{ 68 68 }	848
Metal bars. Machine for bending flanged.	A. J. Moxham.	530,196	Dec. 4	210	52	69	1253
Metal bars. Machine for bending flanged.	W. Pfefferkorn.	530,240	Dec. 4	292	72	69	1268
Metal bars. Machine for bending flanged.	W. Raymond.	530,203	Dec. 4	221	55	69	1256
Metal bars, &c. Machine for cutting.	W. F. Everett.	521,785	June 26	1844	439	67	1581
Metal bars. Testing.	P. H. Dudley.	517,975	Apr. 10	924	231	67	189
Metal bars. Union of transverse.	J. T. McCormick.	528,677	Nov. 6	285	69	69	697
Metal-bending machine.	E. J. Geissinger.	520,262	May 22	2324	{ 564 565 }	{ 67 67 }	1012
Metal-bending machine.	J. B. and J. J. Schneider.	523,413	July 24	2141	{ 537 538 }	{ 68 68 }	448
Metal-boring machine.	D. Stevenson.	521,922	June 26	2075	{ 498 499 }	{ 67 67 }	1227
Metal-capping head.	G. W. McGill.	512,622	Jan. 9	1475	356	66	290
Metal coatings from metallic bases. Removing and recovering.	T. G. Hunter.	529,862	Nov. 27	2373	568	69	1128
Metal coatings from metallic bases. Removing and recovering.	T. G. Hunter.	529,863	Nov. 27	2375	568	69	1129
Metal coatings from metallic bases. Removing and recovering.	T. G. Hunter.	529,864	Nov. 27	2376	568	69	1129
Metal-coiling apparatus.	J. Stevenson, Jr., and C. J. Johnson.	520,942	June 5	353	86	67	1261
Metal. Combination-tool for nurling, milling, screw-cutting, turning, and grooving.	P. A. H. Frederick and J. M. Riedel.	523,854	July 31	2934	731	68	608
Metal-cutting machine. Shape.	D. Hammond.	516,735	Mar. 20	1679	398	66	1796
Metal-cutting machine. Shape.	D. Hammond.	516,736	Mar. 20	1680	398	66	1796
Metal-cutting machine. Shape.	D. Hammond.	516,737	Mar. 20	1682	398	66	1797
Metal-cutting machine. Shape.	L. S. Pfouts.	528,738	Nov. 6	372	91	69	714
Metal-cutting shears.	B. P. Autrey.	529,639	Nov. 20	2001	478	69	1050
Metal-drawing machine.	A. W. Foster.	527,486	Oct. 16	1333	325	69	273
Metal-drill.	V. Parks.	516,277	Mar. 13	889	209	66	1635
Metal-drilling machine.	W. Habersang and F. Zinzen.	514,990	Feb. 30	1671	418	66	1201
Metal electrically. Apparatus for heating.	C. L. Coffin.	520,299	May 22	2382	578	67	1023
Metal. Electrically heating.	C. L. Coffin.	530,021	Nov. 27	2669	640	69	1185

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				Spec.	Dr'g.	Vol.	Page.
Metal electrically. Heating, welding, or working	C. L. Coffin	520,300	May 22	2384	579	67	1023
Metal. Finishing	N. L. Bradley	516,469	Mar. 13	1212	...	66	1694
Metal for blades, pipes, &c	J. W. Wyckoff and J. M. Wettou	529,900	Nov. 27	2614	627	69	1174
Metal from slag. Recovering	M. W. Iles	515,082	Feb. 20	1814	457	66	1226
Metal goods for artistic purposes. Manufacture of	L. Hausmann	514,070	Feb. 6	148	...	66	882
Metal. Machine for cutting beveled edges on plate	T. Lennox	527,178	Oct. 9	816	198	69	167
Metal. Machine for joining and rolling sheets of	W. S. Grafton and R. R. Spears	519,084	May 1	249	58, 59	67	583
Metal. Machine for milling and tapping	W. D. Forbes	512,542	Jan. 9	1354	327	66	267
Metal. Means for joining edges of sheet, strip, and plate	F. A. Williams	530,314	Dec. 4	418	105	69	1291
Metal. Mechanism for handling molten	J. S. Dougherty	528,770	Nov. 6	440	107	69	726
Metal. Molding	W. H. Pelkey and A. St. Louis	520,076	May 22	1931	...	67	951
Metal plates. Feeding device for apparatus for coating	S. Y. Buckman	530,323	Dec. 4	432	108	69	1294
Metal post. Tubular	W. Andrew	511,744	Jan. 2	1	1	66	3
Metal. Process of and apparatus for forming and treating	G. Engel	528,661	Nov. 6	251	62, 63	69	691
Metal rods. Device for reducing the ends of	O. O. Elsasser	515,328	Feb. 27	2242	555	66	1318
Metal-sawing machine	J. F. Lundahl	518,572	Apr. 17	1966	485 } 486 }	67	390
Metal-shaper. Combination	H. J. Hendey	517,613	Apr. 3	319	75, 76	67	62
Metal-shaper. Suspension	H. J. Hendey	517,612	Apr. 3	316	74, 75	67	62
Metal shaping and planing machines. Reversing mechanism for.	A. F. Champlin	519,941	May 15	1750	429 } 430 }	67	892
Metal-shears	R. J. Thompson	530,059	Nov. 27	2742	658	69	1193
Metal sheets. Apparatus for coating	G. Russell	524,736	Aug. 21	1317	322	68	932
Metal sheets. Machine for joining and rolling	W. S. Grafton	517,116	Mar. 27	2324	547	66	1936
Metal-straightening machine	W. S. Ralya and R. Coyle	529,956	Nov. 27	2531	610	69	1156
Metal strips. Machine for cutting and finishing	T. Brandt	519,903	May 15	1692	412 } 413 }	67	882
Metal strips on pasteboard, &c. Machine for fastening	E. Saltzkorn and L. Nicolai	529,752	Nov. 27	2184	521	69	1092
Metal sulfide from hyposulfite solutions. Precipitating	H. Hirsching	513,324	Jan. 23	2645	641	66	599
Metal tapping or drilling machine	T. I. Browne	517,023	Mar. 27	2153	510	66	1903
Metal tubes. Apparatus for drawing	H. Lane	511,900	Jan. 2	294	68	66	57
Metal tubes. Manufacture of	C. T. Cayley	520,296	May 22	2378	577	67	1022
Metal tubes, rods, &c. Apparatus for the manufacture of	J. Robertson	524,506	Aug. 14	937	231	68	849
Metal tubes, rods, &c. Apparatus for the manufacture of	J. Robertson	524,507	Aug. 14	938	232	68	849
Metal wheel. Cast	J. Yocom	523,030	July 17	1480	368	68	311
Metal wheels. Making wrought	A. A. Stevenson	531,072	Dec. 18	1728	411	69	1560
Metal-working. Electric	H. Lemp and W. S. Moody	515,778	Mar. 6	85	20	66	1470
Metal-working. Electric	H. Lemp and W. S. Moody	516,312	Mar. 13	937	220 } 221 }	66	1641
Metal-working. Electric	H. Lemp and W. S. Moody	523,986	Aug. 7	30	7, 8	68	668
Metal-working machine	T. R. Morgan, Jr.	513,812	Jan. 30	3467	854	66	787
Metal-working tool	W. H. Owen	513,954	Jan. 30	3486	907	66	831
Metals against corrosion. Preparation for protecting	A. Buecher	521,600	June 19	1515	...	67	1503
Metals. Apparatus for electrically heating or working	C. L. Coffin	515,652	Feb. 27	2757	687	66	1417
Metals. Apparatus for extracting	A. Guillaume	531,309	Dec. 25	2175	521	69	1657
Metals. Apparatus for reducing, alloying, remelting, and mixing	H. F. D. Schwahn	522,675	July 10	853	212	68	181
Metals by means of electricity. Process of and apparatus for melting	A. F. W. Kreinsen	513,270	Jan. 23	2573	622	66	586
Metals electrically. Heating	C. L. Coffin	522,151	June 26	2490	597	67	1703
Metals. Electrodeposition of	H. Thofehrn	519,595	May 8	1190	287	67	776
Metals from magnetic iron sand, metallic ore-dust, and metallic residues. Winning	E. Nienstaedt	520,377	May 22	2516	...	67	1049
Metals from other commingled gases. Apparatus for separating volatilized	F. C. Butterfield	516,674	Mar. 20	1567	373	66	1777
Metals from sulfide ores, &c. Extracting	V. Engelhardt	531,169	Dec. 18	1919	457	69	1594
Metals in imitation of faience. Finishing	J. Hopson, Jr.	530,342	Dec. 4	474	...	69	1300
Metals. Making plates, &c., of combined	A. Rodig	530,719	Dec. 11	1144	278	69	1437
Metals. Making resins of	F. Pirschel	521,270	June 12	917	...	67	1377
Metals. Method of and apparatus for electrodeposition of	C. R. Fletcher	527,110	Oct. 9	707	173	69	147
Metallic bodies. Means for making	H. C. Wolle	522,093	June 26	2382	573	67	1683
Metallic powders	E. Huber and J. Sachs	522,415	July 3	415	106	68	82
Metallic sheets. Uniting	J. Gould, Jr.	512,021	Jan. 2	486	116	66	93
Metallic tie and rail fastener	W. T. Armstrong and G. H. Wadsworth	518,439	Apr. 17	1745	433	67	352
Metallurgic furnace	J. Butler	519,985	May 15	1824	447	67	906
Metallurgical furnace	C. James and W. Griffiths	513,614	Jan. 30	3149	773	66	727
Metallurgical plant	E. L. Ford	513,099	Jan. 23	2282	551 } 552 }	66	527
Meter:							
See Cut-out meter.	Grain-meter.						
Electric meter.	Water-meter.						
Electrical meter.	Watt meter.						
Gas-meter.							
Meter	M. C. Henley and J. P. Fulgham	527,979	Oct. 23	2186	526	69	449
Meter for estimating the volume and density of alcohols, &c.	A. V. L. Bedout	513,293	Jan. 23	2601	630	66	591
Metronome	J. T. Hanson	512,470	Jan. 9	1248	301	66	248
Mica. Splitting	J. Foulds, Jr.	518,237	Apr. 17	1383	347	67	286
Micrometer-gage	J. P. Lavigne	515,234	Feb. 20	2067	515	66	1273
Micrometer-gage	J. P. Lavigne	515,235	Feb. 20	2069	515	66	1273
Micrometer-gage	H. McBride	519,511	May 8	1102	264	67	760
Micrometer-gages. Automatic stop for	H. V. Bernhardt	528,759	Nov. 6	417	101	69	722
Micrometer-indicator	J. Bath	520,201	May 22	2223	541	67	993

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Micrometer-indicator	J. Bath	526,960	Oct. 2	476	117	69	90
Micrometer surface-gage	J. P. Lavigne	515,236	Feb. 20	2071	515	66	1274
Microphone	W. Deckert	517,564	Apr. 3	242	56	67	48
Microphone	A. Gröper	513,181	Jan. 23	2417	523	66	554
Microscopes. Slow-motion attachment for	H. G. Sedgwick	528,211	Oct. 30	2597	627	69	538
Microtome	R. Slee	515,174	Feb. 20	1966	490	66	1254
Middlings-purifier	D. E. Burner	512,095	Jan. 2	609	146	66	117
Middlings-purifier	H. Seck	529,965	Nov. 27	2549	614	69	1160
Middlings-purifier	E. B. Whitmore	525,301	Aug. 28	2291	557	68	1125
Milk-bottling machine	W. A. Clark	518,306	Apr. 17	1495	374	67	306
Milk-can	C. E. Hinman	512,109	Jan. 2	637	153	66	122
Milk-can	E. A. Kaestner	527,245	Oct. 9	925	223	69	187
Milk-can	F. Wolf	516,255	Mar. 13	855	199	66	1628
Milk-can attachment	A. D. Richman	518,550	Apr. 17	1926	476	67	383
Milk-can fastener	G. McDermott	527,247	Oct. 9	934	226	69	189
Milk-can or analogous receptacle	F. C. J. Roennau	526,460	Sept. 25	2012	479	68	1558
Milk. Condensing and preserving	B. F. McIntyre	523,677	July 31	2611	650	68	550
Milk-cooler	C. Harding	516,705	Mar. 20	1617	385	66	1786
Milk-cooler	L. N. Lean	526,239	Sept. 18	1595	374	68	1467
Milk cooler and aerator	H. W. Gazlay	521,648	June 19	1597	374	67	1518
Milk-cooling house	E. Meck	527,700	Oct. 16	1685	405	69	341
Milk-inspecting apparatus	W. G. Spence	517,367	Mar. 27	2740	644	66	2017
Milk. Method of and apparatus for preserving condensed	F. D. Smith	520,014	May 15	1872	458	67	914
Milk-purifier	R. H. Casswell	517,814	Apr. 3	663	166	67	129
Milk-receptacle	J. M. Matthews	513,125	Jan. 23	2332	562	66	538
Milk-sterilizing apparatus	E. Leslie	529,075	Nov. 13	1001	241	69	847
Milk. Testing	I. K. Lindstrom	531,049	Dec. 18	1698		69	1555
Milk-treating apparatus	R. Larkey	523,043	July 17	1495	372	68	314
Milker. Cow	N. W. and A. H. Hussey	514,551	Feb. 13	958	242	66	1051
Milker. Cow	G. W. Pelton	520,398	May 22	2545	615	67	1055
Milking-machine	R. Ferguson and A. T. Danks	518,234	Apr. 17	1379	346	67	285
Milking-machine	R. Withell	529,576	Nov. 20	1908	454	69	1033
Milking machine. Cow	W. B. Bland	512,939	Jan. 16	2047	485	66	414
Milking machine. Cow	W. B. Bland	526,215	Sept. 18	1557	365	68	1459
Milking machine. Cow	E. Smart	527,893	Oct. 23	2019	485	69	418
Milking machines. Suction-pump for cow	J. S. Jensen	529,865	Nov. 27	2378	569	69	1130
Milking-machines. Teat-cup for	A. Shiels	524,738	Aug. 21	1320	323	68	933
Milking-machines. Vacuum-controlling apparatus for	A. Shiels	513,625	Jan. 30	3169	778	66	730
Milking-machines. Vacuum-regulating apparatus for	A. Shiels	513,624	Jan. 30	3166	777	66	730
Mill:							
See Boring-mill. Grinding-mill.							
Caoutchouc-mixing mill. Hominy-mill.							
Cement-mill. Malt-grinding mill.							
Clay-working mill. Mortar-mill.							
Coffee-mill. Olive-mill.							
Concrete-mixing mill. Ore-crushing mill.							
Crushing and grinding mill. Ore pulverizing and amalgamating mill.							
Crushing or grinding mill. Pulverizing-mill.							
Fanning-mill. Quartz-mill.							
Feed-mill. Rolling-mill.							
Granulating-mill. Rubber-mixing mill.							
	Sawmill.						
	Stamp-mill.						
	Windmill.						
Mill	C. Bonnefond	525,582	Sept. 4	441	106	68	1233
Mill	R. Harris	517,104	Mar. 27	2305	543	66	1932
Mill guide. Rod	W. A. Kilmer	530,591	Dec. 11	926	227	69	1400
Mill-roll feeder	G. W. Combs	528,077	Oct. 23	2361	570	69	481
Milling and fulling machine	B. Preston	521,126	June 5	660	155	67	1316
Milling-cutter	G. T. Bechtol	512,463	Jan. 9	1237	299	66	246
Milling-cutters. Manufacture of	C. C. Tyler	530,213	Dec. 4	241	59	69	1260
Milling-cutters. Method of and apparatus for making	C. C. Tyler	530,212	Dec. 4	238	59	69	1259
Milling-machine	B. F. Barnes	529,013	Nov. 13	899	212	69	829
Milling-machine	F. Holz	513,683	Jan. 30	3265	803	66	748
Milling-machine	V. W. Mason, Jr.	520,486	May 29	2696	653	67	1097
Milling-machine	E. J. McClellan	525,792	Sept. 11	818	186	68	1314
Milling-machine	E. J. McClellan	527,213	Oct. 9	870	211	69	177
Milling-machine	E. Meyers	517,287	Mar. 27	2603	611	66	1990
Milling-machine	J. Riddell	516,838	Mar. 20	1833	433	66	1827
Milling-machine	C. H. Trask	521,771	June 19	1823	443	67	1560
Milling machine. Nut	J. H. Brown and H. W. Smith	525,313	Aug. 28	2308	561	68	1129
Milling-machines. Universal head for	F. Kempsmith	525,050	Aug. 28	1880	460	68	1050
Millstone	M. Ams	523,320	July 24	1985	499	68	421
Mine-door	G. D. Warren	516,036	Mar. 6	497	115	66	1544
Mine trap-door	G. J. Herth and G. Bonenberger	513,576	Jan. 30	3089	760	66	717
Mine trap-door	G. J. Herth and G. Bonenberger	521,979	June 26	2198	529	67	1648
Mines. Electrical apparatus for firing submarine	G. Bertolini	513,294	Jan. 23	2603	630	66	591
Mines. Preventing draft in coal	E. A. Tiffany	530,463	Dec. 4	667	165	69	1337
Miner's flask	J. Zweig	518,203	Apr. 10	1326	331	67	259

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Miners' bats. Lamp-support for.....	J. A. Simpson.....	515,133	Feb. 20	1898	477	66	1241
Miner's pick.....	F. J. S. Hute.....	529,271	Nov. 13	1342	321	69	909
Miner's spooning-tool.....	N. E. Varney.....	531,347	Dec. 25	2244	535	69	1669
Mining-drill.....	A. E. Buzzo.....	523,850	Nov. 6	601	{ 142 143	69	755
Mining-drill.....	R. H. Elliott and J. B. Carrington..	530,510	Dec. 11	784	{ 193 194	69	1375
Mining-drill.....	R. H. Elliott and J. B. Carrington..	520,511	Dec. 11	786	{ 194 195	69	1375
Mining-drill.....	R. H. Elliott and J. B. Carrington..	530,512	Dec. 11	783	195	69	1375
Mining-drill.....	E. P. Warner.....	511,869	Jan. 2	198	50	66	41
Mining-machine.....	J. L. Beury and J. T. Cressey.....	513,296	Jan. 23	2608	632	66	592
Mining-machine.....	H. B. Dierdorff.....	524,053	Aug. 7	147	33	68	689
Mining-machine.....	J. Herwood.....	527,791	Oct. 23	1837	442	69	387
Mining-machine.....	F. M. Lechner.....	526,451	Sept. 25	1997	476	68	1556
Mining-machine.....	B. A. Legg.....	524,064	Aug. 7	161	37	63	691
Mining-machine. Coal.....	P. F. Campbell.....	531,019	Dec. 18	1643	390	69	1544
Mining-shaft cage.....	N. Haller.....	516,350	Mar. 13	997	237	66	1656
Mining-tool.....	M. Hardsocg.....	520,000	May 15	1851	452	67	910
Minnow-bucket.....	L. W. and W. H. Hemp.....	523,470	July 24	2253	566	68	466
Minnow-bucket.....	J. M. Kersey.....	514,476	Feb. 13	837	213	66	1022
Minnow-pail.....	G. Thoma and F. Kies.....	513,740	Jan. 30	3363	629	66	766
Mirror.....	G. L. Hills.....	516,092	Mar. 6	578	135	66	1560
Mirror.....	J. Jacobson.....	514,148	Feb. 6	281	68	66	903
Mirror-adjusting device.....	F. W. Tobey and D. W. Tower.....	530,548	May 29	2798	676	67	1116
Mirror. Combination.....	P. Wiederer.....	518,382	Apr. 17	1653	409	67	335
Mirror-frame.....	J. F. Wilmot.....	517,131	Mar. 27	2347	553	66	1940
Mirrors. Manufacturing.....	A. I. Klock.....	526,398	Sept. 25	1885		68	1536
Miter-box.....	J. J. Green.....	522,591	July 10	714	{ 182 183	68	156
Miter-box.....	K. L. Hyller.....	525,215	Aug. 28	2161	528	68	1099
Miter-box. Adjustable.....	J. Luscher.....	532,068	June 26	2343	553	67	1275
Miter-cutter.....	C. E. Smith.....	525,725	Sept. 11	702	163	68	1282
Miter-cutting machine.....	J. W. Oliver.....	526,634	Sept. 25	2269	543	68	1607
Miter, level, and square. Combined.....	G. C. Hatch and J. Wenger.....	513,183	Jan. 23	2418	584	66	555
Mitering-machine.....	J. T. Criswell.....	511,935	Jan. 2	355	{ 82 83	66	67
Mitering-machine.....	J. Locke.....	527,434	Oct. 16	1246	306	69	259
Mitering-machine.....	H. A. Riemann.....	521,769	June 19	1816	431	67	1559
Mitten.....	A. P. Smith.....	524,001	Aug. 7	59	13	68	672
Mixer.....							
See Liquid-mixer.....							
Mixer.....	U. R. Mohr.....	530,051	Nov. 27	2732	655	69	1197
Mixer or beater.....	A. C. Mitchell.....	519,584	May 8	1173	282	67	773
Mixing-board.....	E. E. Carpenter.....	529,706	Nov. 27	2111	506	69	1080
Mixing-machine.....	R. Hartmann.....	517,158	Mar. 27	2394	564	66	1949
Mixing-machine.....	R. Hartmann.....	517,159	Mar. 27	2396	565	66	1949
Mixing-machine.....	J. Markus.....	528,175	Oct. 30	2529	613	69	526
Mixing-machine.....	C. Rippin.....	526,541	Sept. 25	2126	{ 509 510	68	1580
Mixing-machine.....	G. Schoch.....	512,332	Jan. 9	996	244	66	200
Mixing materials. Method of and apparatus for.....	T. A. Edison.....	513,096	Jan. 23	2278	551	66	526
Model. Folding or collapsible.....	F. C. Krantz.....	524,855	Aug. 21	1520	{ 371 372	68	969
Model-stand.....	C. Sullivan.....	521,831	June 26	1920	460	67	1586
Moistener for stamps, envelopes, etc.....	J. G. Willits.....	521,250	June 12	884	209	67	1370
Moistener. Stamp or envelope.....	J. Durst.....	513,488	Jan. 30	2930	721	66	687
Moistening and ventilating apparatus. Air.....	E. Kleiner, W. Bokmayer, and O. Hoffmann.....	511,897	Jan. 2	289	67	66	56
Moistening apparatus. Centrifugal air.....	G. Josephy.....	522,217	July 3	74	16	68	15
Moistening device.....	T. J. Close.....	527,049	Oct. 9	619	150	69	131
Mold.....							
See Brick-mold. Ice-cream mold.....							
Bullet-mold. Ingot-mold.....							
Butter-mold. Rubber mold.....							
Casting-mold. Sand mold.....							
Cigar-mold. Stove ash-pit mold.....							
Glass-mold. Stove lid or cover mold.....							
Glass-blowing mold. Tank-mold.....							
Mold.....	J. M. Hurley.....	518,147	Apr. 10	1211	304	67	237
Mold.....	A. D. Jeffrey.....	511,893	Jan. 2	285	66	66	55
Mold.....	J. Ramming.....	529,309	Nov. 13	1417	340	69	924
Mold.....	E. L. Ransome.....	512,662	Jan. 9	1546	371	66	305
Mold.....	E. L. Ransome.....	515,014	Feb. 20	1707	429	66	1207
Mold.....	E. L. Ransome.....	528,342	Oct. 30	2818	681	69	578
Mold-cooler.....	H. T. Winters.....	523,062	July 17	1520	380	68	319
Mold for making washers and tacks for plumbers' use.....	D. E. Black and S. A. Hill.....	527,931	Oct. 23	2087	500	69	431
Mold-forming apparatus.....	S. J. Adams.....	521,520	June 19	1381	320	67	1479
Mold-foundation.....	C. L. Miller and J. R. George.....	518,418	Apr. 17	1705	424	67	345
Mold-making machine.....	L. Ribereau y Marteaux.....	519,310	May 1	672	{ 163 164 165	67	667
Mold-moistener.....	H. C. Schrader.....	526,948	Oct. 2	461	113	69	87
Mold-plates. Process of and bath for hardening.....	L. B. Brown.....	523,620	July 24	2502		68	513
Mold. Self-feed and skim-gate.....	C. A. Hanson.....	513,968	Jan. 30	3709	913	66	835
Molds. Apparatus for forming sand.....	R. Richter.....	519,350	May 8	766	187	67	699
Molds for plaster casts. Making.....	A. W. Monroe.....	524,179	Aug. 7	349	114	68	727
Molds. Machine for dropping liquid material into.....	R. S. Murray and F. W. Eames.....	524,263	Aug. 7	493	114	68	750
Molder or former.....	F. W. McArdle.....	523,228	July 17	1829	460	68	375
Molder's apparatus.....	A. K. Beckwith.....	530,319	Dec. 4	426	{ 106 107	69	1292
Molder's flask.....	L. W. Boutelle.....	522,959	July 17	1355	336	68	288
Molder's flask.....	F. Morris.....	526,113	Sept. 18	1376	321	68	1436
Molder's flask.....	H. R. Travers and C. Petersen.....	514,101	Feb. 6	196	45	66	891
Molder's tack.....	F. Schulte.....	519,164	May 1	403	97	67	615

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Molding	G. H. Geyer	524,169	Aug. 7	348	81, 82	68	725
Molding apparatus	S. J. Adams	521,999	June 26	2239	533	67	1655
Molding apparatus	S. J. Adams	522,000	June 26	2243	538	67	1656
Molding apparatus	S. J. Adams	522,140	June 26	2473	593	67	1700
Molding apparatus	S. J. Adams	531,429	Dec. 25	2381	570	69	1697
Molding apparatus	J. Shaaber	517,489	Apr. 3	123	27	67	25
Molding appliance	J. B. Neff	525,355	Sept. 4	54	15	68	1161
Molding. Dry-sand	W. C. Wood	525,040	Aug. 28	1857	{ 453 454 }	68	1047
Molding-machine	W. W. Doolittle	523,466	July 24	2241	{ 563 564 }	68	465
Molding machine	W. Edgar	517,737	Apr. 3	544	131	67	105
Molding-machine	C. Herman	528,295	Oct. 30	2742	{ 662 663 }	69	565
Molding-machine	W. B. Sterrit	524,492	Aug. 14	908	224	68	845
Molding-machine attachment	I. N. Kellogg	516,394	Mar. 13	1086	258	66	1670
Molding-machine. Founder's	E. Grant	516,267	Mar. 13	875	205	66	1633
Molding-machine. Inside	J. H. Blaisdell	515,313	Feb. 20	2205	{ 546 547 }	66	1300
Molding-machine. Outside	C. D. Marsh	513,192	Jan. 23	2433	588	66	557
Molding-making machine	J. E. Ahlvin and C. G. Tengdin	514,053	Feb. 6	124	29	66	877
Molding-table	C. F. McGilvray	516,610	Mar. 13	1450	343	66	1738
Moldings and automatically turning articles from rods. Machine for cutting spiral or turned	A. C. Pemberton	526,738	Oct. 2	115	27, 28	69	23
Moldings. Corner-piece for room-	A. Simon	517,307	Mar. 27	2642	620	66	1997
Mole-trap	A. Arnold	528,136	Oct. 30	2471	598	69	515
Mole-trap	E. Klink	515,233	Feb. 20	2066	515	66	1273
Mole-trap	M. H. Nash	529,801	Nov. 27	2263	540	69	1106
Mole-trap	H. D. Nichols	524,346	Aug. 14	669	163	68	800
Mole-trap	M. E. Parham	517,824	Apr. 3	675	168	67	131
Mole-trap	W. A. Reddick	524,216	Aug. 7	426	101	68	739
Money-changer's case	W. H. Staats	525,726	Sept. 11	704	163	68	1293
Money-drawer. Safety	M. R. Daley	528,082	Oct. 23	2369	572	69	482
Money recording and receipting machine	C. Fisher	525,681	Sept. 4	603	{ 144 145 }	68	1262
Monkey and pipe ratchet-wrench. Combined	S. M. Friede	525,684	Sept. 4	615	146	68	1264
Monkey and pipe wrench. Combined	S. M. Friede	530,518	Dec. 11	798	198	69	1377
Monkey-wrench	H. Bivin	515,645	Feb. 27	2744	684	66	1415
Monkey-wrench	E. C. Wells	513,354	Jan. 23	2694	633	66	608
Monkey-wrench	W. R. Wilbur	518,086	Apr. 10	1116	282	67	219
Monkey-wrench. Compound-action	S. M. Friede	525,318	Aug. 23	2328	563	68	1131
Monocycle	J. W. Finch	521,766	June 26	1845	440	67	1581
Monument	W. Ohaver	525,026	Aug. 28	1828	445	68	1041
Monument	A. Russell	512,396	Jan. 9	1105	268	66	221
Monuments. Construction of memorial	W. B. Van Amringe	528,193	Oct. 30	2563	{ 620 621 }	69	532
Mop	C. H. Triphagen	512,492	Jan. 9	1287	309	66	255
Mop and wringer. Combined	S. L. Bergstresser	528,525	Nov. 6	8	4	69	648
Mop-head	R. Froberg	512,543	Jan. 9	1355	328	66	268
Mop-head	H. F. Low	519,917	May 15	1712	420	67	886
Mop head and wringer	W. O. Harland	515,676	Feb. 27	2799	698	66	1426
Mop head and wringer. Combined	J. H. Jewett	523,791	July 31	2816	699	68	586
Mop or brush holder	A. D. Granger	519,329	May 8	714	177	67	690
Mop-wringer	W. H. Bennett	519,146	May 1	366	87	67	608
Mop-wringer	W. H. Betts	512,795	Jan. 16	1796	427	66	367
Mop-wringer	B. F. Jones	512,830	Jan. 16	1861	440	66	379
Mop-wringer	H. Keller	526,449	Sept. 25	1994	475	68	1556
Mop-wringer	H. F. Low	516,271	Mar. 13	881	206	66	1634
Mop-wringer	H. F. Low	516,272	Mar. 13	882	207	66	1634
Mop-wringer	E. H. Noblo and J. W. Ward	521,216	June 12	821	193	67	1359
Mop-wringer	C. A. White	525,803	Sept. 11	840	{ 190 131 }	68	1317
Mop-wringer and pail	A. H. Ramey	517,065	Mar. 27	2239	530	66	1918
Moquette fabric	E. Tymeson	529,635	Nov. 20	1988	474	69	1048
Mordant	R. H. Pickles	530,202	Dec. 4	219	69	1256	
Mordanting fabrics	O. P. Amend	512,264	Jan. 9	881	66	179	
Mortar-making apparatus	T. D. McClary	521,507	June 19	1358	{ 316 317 }	67	1476
Mortar-mill	S. B. Ladd	524,683	Aug. 14	1320	298	68	902
Mortar-mixing machine	J. L. Bowles	515,463	Feb. 27	2458	609	66	1359
Mortar-mixing machine	W. Renyison	530,654	Dec. 11	1040	254	69	1419
Mortar. Producing hydraulic	C. Bloemendal	519,599	May 8	1198	289	67	777
Mortise-lock	F. P. Burkhardt	527,011	Oct. 2	555	135	69	105
Mortising-machine	W. H. and W. J. Clark	524,192	Aug. 7	380	90, 91	68	731
Mortising-machine	D. Hepp	516,014	Mar. 6	456	105	66	1537
Mortising-machine	J. Holmes and K. Peterson	519,502	May 8	1015	246	67	744
Mortising-machine	G. Weldon	517,906	Apr. 10	801	{ 201 202 }	67	169
Mortising-machine. Vencer	H. C. Ward	517,558	Apr. 3	234	54	67	46
Mortising-machines. Protector for endless-chain cutter	C. S. Moseley	524,045	Aug. 7	123	28	68	685
Mosaic. Vitreous	L. D. Tournel	523,387	July 24	2094	.....	68	440
Mosquito-net frame	C. P. Dicco	530,164	Dec. 4	149	39	69	1342
Mosquito-net frame	A. C. Lottman	515,123	Feb. 20	1878	472	66	1237
Moth-proof bag	J. Weinheimer	522,542	July 3	621	158	68	122
Motion. Converting reciprocatory into rotary	D. Hazard	529,859	Nov. 27	2369	567	69	1128
Motion. Device for converting reciprocating into rotary	F. Jackson	519,064	May 1	213	50	67	577
Motion. Electric mechanism for giving reciprocating	H. S. McKay	519,869	May 15	1640	399	67	872
Motion for centrifugal or other machines. Production of high speed rotary	A. Frank	531,539	Dec. 25	2582	{ 617 618 }	69	1735
Motion. Means for producing rotary from reciprocatory	G. Chapman	526,614	Sept. 25	2244	{ 535 536 }	68	1602
Motion. Means for transmitting	H. C. F. E. Snowman	530,972	Dec. 18	1562	370	69	1529

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Motion. Machine for converting	J. P. Buckley	522,249	July 3	129	31	68	25
Motion. Mechanism for converting pedal	T. Baker	525,309	Aug. 28	2301	559	68	1127
Motion. Mechanism for taking up lost	J. W. Boynton	525,780	Sept. 11	793	183	68	1309
Motion. Mechanism for taking up lost	J. W. Boynton	525,781	Sept. 11	796	183	68	1309
Motion. Mechanism for taking up lost	E. H. Parks	525,771	Sept. 11	781	181	68	1306
Motion. Mechanism for transmitting	W. Scott	516,227	Mar. 13	812	189	66	1620
Motion. Parallel	F. L. Stone	529,339	Nov. 13	1454	{ 350 351 }	{ 69 68 }	{ 932 1323 }
Moto. Preparing and making	J. Takamine	525,821	Sept. 11	878			
Motor:							
See Car-motor.	Hydraulic motor.						
Churn-motor.	Hydrocarbon-motor.						
Current-motor.	Manual motor.						
Dynamo or electric motor.	Mechanical motor.						
Electric motor.	Pendulum-motor.						
Electric reciprocating motor.	Portable motor.						
Electrical motor.	Pump-motor.						
Electromagnetic motor.	Railway-motor.						
Elevator-motor.	Rotary motor.						
Fan-motor.	Spring-motor.						
Gas-motor.	Stamp-motor.						
Gas or hydrocarbon motor.	Steam-motor.						
Gas or petroleum motor.	Steam and gas motor.						
	Toy motor.						
	Vapor-motor.						
	Water-motor.						
	Wave-motor.						
	Wind-motor.						
Motor	G. W. Browne and J. W. Little	525,461	Oct. 30	3034	736	69	616
Motor	M. C. Gilbert	517,856	Apr. 10	723	182	67	154
Motor	J. J. Guldhang	515,674	Feb. 27	2793	{ 696 697 }	{ 66 66 }	{ 1425 1028 }
Motor	C. W. Johnston	520,316	May 22	2410	586	67	1028
Motor	J. C. Lueneburg	513,801	Jan. 30	3448	851	66	782
Motor	J. S. Mackie	526,928	Oct. 2	439	108	69	82
Motor	G. H. A. Meyer	516,503	Mar. 13	1271	{ 302 303 }	{ 66 66 }	{ 1705 1705 }
Motor	C. W. Pearce	513,529	Jan. 30	3011	744	66	702
Motor	S. C. Pettegrew	524,686	Aug. 14	1225	299	68	903
Motor	B. C. Thrasher	512,633	Jan. 9	1489	{ 359 360 }	{ 66 66 }	{ 293 293 }
Motor	A. E. Whitaker	517,712	Apr. 3	504	121	67	97
Motor-charging device	J. T. F. Conti	531,511	Dec. 25	2533	{ 606 607 }	{ 69 68 }	{ 1725 1725 }
Motor controller. Electric or other.	E. A. Sperry	525,394	Sept. 4	132	33	68	1174
Motor-engine. Gas, oil, or similar.	H. H. Andrew and A. R. Bellamy	526,369	Sept. 25	1831	435	68	1527
Motor-engine. Gas, oil, or similar.	H. H. Andrew and A. R. Bellamy	528,063	Oct. 23	2330	562	69	475
Motor-engine. Gas or oil.	H. Schumm	528,115	Oct. 23	2424	587	69	492
Motor-generator	J. C. Henry	513,820	Jan. 16	1844	436	66	376
Motor-generator	J. C. Henry	534,852	Aug. 21	1517	370	68	968
Motor-generators. Compounding	J. Burke	524,376	Aug. 14	720	175	68	810
Motor-governor	J. Dow	526,301	Sept. 18	1702	{ 401 402 }	{ 68 68 }	{ 1488 1488 }
Motor-opticon	J. E. Blackmore	520,030	May 22	1907	467	67	936
Motor or pump	C. E. Brown	522,102	June 26	2400	{ 576 577 }	{ 67 67 }	{ 1685 1685 }
Motor-power engine	J. Landry and G. Beyroux	529,330	Nov. 13	1442	348	69	930
Motor-regulator	J. F. Sheahan	524,615	Aug. 14	1117	275	68	824
Motor safety device	A. W. K. Peirce	522,851	July 10	1153	287	68	235
Motors. Cylinder and valve for steam	A. Holmgren	528,237	Oct. 30	2025	633	69	513
Motors. Hand regulator or switch for	E. E. Keller	519,715	May 15	1393	336	67	826
Motors. Hydraulic apparatus for controlling fluid-pressure	C. Bonjour	519,168	May 1	408	{ 98 99 100 }	{ 67 67 67 }	{ 616 616 616 }
Motors. Method of and means for starting synchronous	B. G. Lamme	519,862	May 15	1629	396	67	870
Mousing hook. Self.	C. H. Biggs	520,721	May 29	3095	749	67	1171
Movement. Reversible traversing.	L. Koss	520,827	June 5	129	28	67	1221
Mower	T. S. Brown	522,314	July 3	239	63	68	42
Mower	R. McGahey	519,197	May 1	460	113	67	626
Mower	J. Stephani	524,491	Aug. 14	906	223	68	844
Mower attachment	M. Szukalski	518,430	Apr. 17	1731	430	67	349
Mower attachment. Lawn.	E. R. Coax	512,157	Jan. 2	723	175	66	138
Mower. Lawn.	W. Bayley	513,752	Jan. 30	3379	{ 233 234 }	{ 66 66 }	{ 769 769 }
Mower. Lawn.	H. Deck	519,080	May 1	243	57	67	582
Mower. Lawn.	S. P. Graham	519,860	May 15	1627	396	67	869
Mower. Lawn.	S. P. Graham	525,388	Sept. 4	117	30, 31	68	1171
Mower. Lawn.	M. C. Henley	518,670	Apr. 24	2137	{ 534 535 }	{ 67 67 }	{ 436 436 }
Mower. Lawn.	A. C. Kent	523,896	July 31	2999	747	68	621
Mower. Lawn.	G. P. Kirsch	527,697	Oct. 16	1680	404	69	340
Mower. Lawn.	W. M. Ring, J. W. Smith, and A. Anness.	513,442	Jan. 23	2829	694	66	633
Mower. Lawn.	L. C. Stark	523,692	July 31	2638	654	68	554
Mower. Lawn.	W. G. Vernon	524,077	Aug. 7	182	41	68	695
Mower. Lawn.	F. M. Waters	515,414	Feb. 27	2383	591	66	1345
Mower. Rotary lawn.	A. B. Schermerhorn	515,795	Mar. 6	108	26	66	1474
Mower sharpener. Lawn.	I. Adams and J. H. Doswell	519,441	May 8	911	{ 219 220 }	{ 67 67 }	{ 726 726 }
Mowers. Grass-catcher for lawn	J. A. Bubier	530,084	Dec. 4	14	4	69	1217
Mowers. Grass-catching attachment for lawn	C. K. Hann	529,030	Nov. 13	919	218	69	833
Mowers. Grass-collector for lawn	E. Anderson	513,358	Jan. 23	2701	656	66	609
Mowers, &c. Knife or cutter for	D. B. Smith	513,834	Jan. 30	3504	862	66	794

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Mowers. Platform raking attachment for	A. B. Miller	525,110	Aug. 28	1985	486	68	1068
Mowing-machine	G. Beekman	526,018	Sept. 18	1211	279	68	1397
Mowing-machine	J. H. Jones	520,646	May 29	2956	715	67	1146
Mowing-machine	S. V. Kennedy	529,448	Nov. 20	1679	401	69	991
Mowing-machine	W. A. Knowlton	523,286	July 17	1923	473	68	392
Mowing-machine	W. A. Knowlton	525,219	Aug. 28	2167	529	68	1100
Mowing-machine	W. A. Knowlton	525,220	Aug. 28	2169	529	68	1100
Mowing-machine	E. Pridmore	528,304	Oct. 30	2758	666	69	567
Mowing-machine	B. J. Sykes	512,130	Jan. 2	665	159	66	127
Mowing-machine attachment	W. L. Hay and R. L. Johnston	518,842	Apr. 24	2429	602	67	487
Mowing-machine attachment	W. Storey	515,802	Mar. 6	118	28, 29	66	1476
Mowing-machine cutter-bar	E. I. Peaslee	525,114	Aug. 28	1991	487	68	1069
Mowing-machine cutter-bar	J. W., F. A., S. L., and P. P. Vermilion.	512,770	Jan. 16	1761	418	66	360
Mowing-machine cutting apparatus	H. Moon	515,603	Feb. 27	2631	666	66	1402
Mucilage. Collapsible tube or package for	J. A. Symonds	514,290	Feb. 6	541	133	66	955
Mucilage. Device for mechanically applying	V. H. Bazerque	527,009	Oct. 2	550	135	69	104
Mud and oil trap and water-purifier	G. F. Day and W. Hunter	520,670	May 29	3006	726	67	1154
Muff and purse. Combined	I. Sprung	526,950	Oct. 2	464	114	69	87
Muffle-furnace	A. A. Breneman	514,698	Feb. 13	1207	300	66	1099
Muffle-kiln. Downdraft	A. M. Strusholm	518,012	Apr. 10	995	249	67	206
Mule and twiner. Self-acting	J. R. Wain	518,433	Apr. 17	1738	431	67	350
Muller for grinding or amalgamating mills.	W. N. Nolan	512,993	Jan. 16	1975	469	66	401
Multiphase systems. Regulation of	L. Bell	516,796	Mar. 20	1760	415	66	1811
Music, &c. Apparatus for turning leaves of	E. Richardson	523,008	July 17	1435	358	68	302
Music-box	A. E. Paillard and A. Sneur	526,499	Sept. 25	2067	490	68	1569
Music-box attachment. Clock	C. H. Jacot	514,470	Feb. 13	827	209	66	1026
Music-box. Coin-controlled	H. Langfelder	521,620	June 19	1553	363	67	1510
Music-box damper	G. A. Brachhausen	531,359	Dec. 25	2269	541	69	1674
Music-box damping device	H. Langfelder	521,289	June 12	956	227	67	1383
Music-boxes. Damper attachment for Swiss	W. H. Hoschke	531,036	Dec. 18	1669	396	69	1549
Music-boxes. Spring-motor for	G. Otto	525,717	Sept. 11	690	160	68	1291
Music holder and stand. Combined	J. Wunder	527,096	Oct. 9	682	168	69	143
Music-leaf turner	W. C. Boeing and T. P. Stork	521,756	June 19	1793	426	67	1555
Music-leaf turner	C. P. Brown	527,658	Oct. 16	1610	388	69	327
Music-leaf turner	C. S. Clizbe	513,963	Jan. 30	3700	912	66	834
Music-leaf turner	J. W. Darley, Jr.	519,302	May 1	649	159	67	663
Music-leaf turner	M. D. Ferrin	523,272	July 17	1904	479	68	389
Music-leaf turner	J. Flemming	530,031	Nov. 27	2683	645	69	1188
Music-leaf turner	F. A. Meyer	522,074	June 26	2354	566	67	1677
Music-leaf turner	C. H. Nadig	526,633	Sept. 25	2268	543	68	1607
Music-leaf turner	S. H. Redmond	513,142	Jan. 23	2357	569	66	543
Music-leaf turner	J. C. Stinson	515,724	Feb. 27	2377	718	66	1440
Music. Machine for making perforated sheet	W. E. Griggs	527,970	Oct. 23	2168	521	69	446
Music or book leaf holder	H. C. Ward	524,451	Aug. 14	850	208	68	834
Music or other books. Apparatus for turning over leaves of	W. Coates	522,336	July 3	275	72, 73	68	55
Music-rack for musical-instrument cases	J. A. Weser	514,249	Feb. 6	477	117	66	942
Music-stand	F. Higbie	514,751	Feb. 13	1301	324	66	1116
Music-stand	G. H. McCall	524,181	Aug. 7	362	88	68	727
Music stand and case. Combined	J. H. Brookmire, Jr.	515,649	Feb. 27	2753	686	66	1416
Music-turner	C. P. Hollis	520,207	May 22	2231	542	67	994
Music turner. Sheet	B. F. Wallace	523,420	July 24	2152	540	68	450
Musical hand-instrument. Stringed	J. S. Back	514,877	Feb. 13	1500	376	66	1154
Musical instrument	W. E. Bent	516,427	Mar. 13	1137	271	66	1681
Musical instrument	A. H. Beyer	518,219	Apr. 17	1357	338	67	281
Musical instrument	J. B. Birrer	518,775	Apr. 24	2325	577	67	469
Musical instrument	W. Burke	529,893	Nov. 27	2424	582	69	1138
Musical instrument	H. G. Carswell	515,323	Feb. 27	2236	553	66	1317
Musical instrument	J. H. Chase and J. B. Tracy	520,297	May 22	2380	578	67	1022
Musical instrument	J. Dodd	527,269	Oct. 9	973	236	69	195
Musical instrument	E. Enriquez	527,675	Oct. 16	1639	395	69	332
Musical instrument	I. S. Goldman	515,671	Feb. 27	2786	694	66	1423
Musical instrument	H. Langfelder	519,216	May 15	1553	380	67	856
Musical instrument	R. H. Mayland	531,323	Dec. 25	2202	527	69	1662
Musical instrument	B. H. Monneuse	521,662	June 19	1619	379	67	1523
Musical instrument	F. A. Richter	518,329	Apr. 17	1538	383	67	313
Musical instrument	F. A. Richter	519,737	May 15	1426	344	67	831
Musical instrument	W. A. Seifert	517,196	Mar. 27	2461	579	66	1962
Musical-instrument attachment	M. J. Betz	513,295	Jan. 23	2606	631	66	592
Musical-instrument attachment	G. Brown	514,259	Feb. 6	491	120	66	945
Musical-instrument attachment	L. Utt	530,369	Dec. 4	518	128	69	1309
Musical instrument. Automatic	W. H. Hoschke	531,037	Dec. 18	1670	396	69	1549
Musical-instrument damper	A. Richter	527,811	Oct. 23	1666	448	69	391
Musical instrument. Fretted	W. H. R. Toye	518,809	Apr. 24	2467	611	67	494
Musical instrument keyboard	E. A. Edgren	520,982	June 5	417	99	67	1272
Musical instrument. Mechanical	G. B. Kelly	517,605	Apr. 3	648	162	67	196
Musical-instrument rack	W. A. Naumann	520,214	May 22	2244	546	67	956
Musical instrument. Stringed	C. L. G. Bech	521,228	June 12	847	198	67	1364
Musical instrument. Stringed	J. H. Parker	524,114	Aug. 7	245	57	68	706
Musical instrument. Stringed	H. E. Wurltizer	519,751	May 15	1443	348	67	835
Musical-instrument tail-piece	R. L. Turner	519,416	May 8	872	211	67	719

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Musical-instrument tuning-key.....	A. McKenzie.....	528,013	Oct. 23	2251	543	69	460
Musical instrument. Wind.....	P. Pupeschi.....	512,449	Jan. 9	1213	293	66	241
Musical instrument. Wind reed.....	P. J. Devault.....	527,742	Oct. 16	1749	422	69	353
Musical instruments. Accompaniment-player for...	R. W. Lyle.....	529,928	Nov. 27	2479	597	69	1147
Musical instruments. Device for tightening strings of	G. Heredia.....	521,286	June 12	953	226	67	1382
Musical instruments. Keyboard attachment for....	J. D. Case.....	529,895	Nov. 27	2427	583	69	1138
Musical instruments. Stop for pedals of.....	L. C. Wegfarth.....	522,926	July 10	1286	318	68	258
Musical instruments. String-winding mechanism for.	J. Murdock, Jr.....	516,545	Mar. 13	1341	320	66	1718
Musical instruments. Transposing-keyboard for....	M. Philipps.....	519,071	May 1	227	53. 51	67	579
Musical instruments. Tune-sheet for automatic....	A. Amthor.....	529,995	Nov. 27	2619	628	69	1175
Musical instruments. Vibrator for reed.....	H. Janes.....	518,957	May 1	33	9	67	542
Musical wind-instruments. Mouthpiece for.....	J. C. Ingram.....	516,968	Mar. 20	2084	493	66	1873
Mustache-curler.....	C. C. Baggio.....	529,591	Nov. 20	1926	459	69	1037
Mustache-curler.....	W. S. Cooper.....	524,576	Aug. 14	1046	258	68	870
Mustache-guard.....	M. V. Kingsbury.....	529,553	Nov. 20	1868	444	69	1025
Mustache shield or guard for cups. Detachable....	R. MacMorris.....	516,354	Mar. 13	1003	239	66	1657
Muzzle. Animal.....	T. H. Johnson.....	518,845	Apr. 24	2433	603	67	488
Muzzle. Animal.....	W. H. Sanborn.....	522,696	July 10	888	219	68	186
Nail: See Clamp-nail. Spacing-nail. Heel-nail.							
Nail-extractor.....	R. Blake.....	526,678	Oct. 2	14	4	69	5
Nail-machine feeder.....	E. J. Smith.....	523,603	July 24	2468	620	68	507
Nail-machines. Wire-feeding device for.....	C. W. Richards.....	526,117	Sept. 18	1385	322	68	1427
Nail making, distributing, and driving machine....	F. F. Raymond, 2d.....	528,805	Nov. 6	505	122	69	738
Nail-making machine. Wire.....	G. W. Bond.....	529,475	Nov. 20	1725	411	69	999
Nail-making machines. Feeding mechanism for wire-	A. Guttin.....	518,500	Apr. 17	1846	458	67	369
Nail or spike.....	J. Floyd.....	519,810	May 15	1545	377	67	854
Nail-puller.....	G. J. Capewell.....	519,034	May 1	156	37	67	566
Nail-set.....	C. F. Markley.....	512,119	Jan. 2	651	156	66	125
Nail-set.....	C. G. White.....	530,252	Dec. 4	309	77	69	1272
Nails. Machine for preparing and finishing.....	J. M. Langhlin.....	521,242	June 12	866	204	67	1367
Nailing machine. Box.....	B. S. Atwood.....	515,393	Feb. 27	2351	583	66	1339
Nailing-machine. Duplex.....	G. A. Ambler.....	525,066	Aug. 28	1907	466	68	1055
Name or inscription plate for monuments, signs, &c.	R. H. Follenius.....	527,744	Oct. 16	1755	423	69	353
Name-plate attachment.....	C. W. Ruth.....	525,287	Aug. 28	2273	554	68	1122
Napkins, &c. Holder for.....	J. H. Pierrepont.....	529,186	Nov. 13	1192	286	69	882
Nasal expander.....	W. A. Dayton.....	513,458	Jan. 23	2871	705	66	642
Neckband-clamp.....	A. Conkling and E. W. Buell.....	527,408	Oct. 16	1202	295	69	251
Neck-protector.....	H. A. Lahl.....	526,534	Sept. 25	2116	507	68	1578
Necktie.....	J. Lister.....	513,798	Jan. 30	3441	849	66	781
Necktie.....	F. C. Overton.....	514,961	Feb. 20	1628	408	66	1193
Necktie.....	D. Sanguinette.....	527,129	Oct. 9	744	182	69	153
Necktie.....	G. Selowsky.....	517,769	Apr. 3	597	147	67	116
Necktie-fastener.....	W. C. McDougall.....	529,934	Nov. 27	2486	599	69	1149
Necktie-fastener.....	C. McNeil.....	519,477	May 8	975	236	67	736
Necktie-fastener.....	I. Noar.....	518,855	Apr. 24	2148	607	67	491
Necktie-holder.....	J. H. Hines, Jr.....	528,879	Nov. 6	635	157	69	766
Necktie-holder.....	E. Etaelin.....	522,437	July 3	461	116	68	92
Necktie-shield.....	I. Noar.....	519,268	May 1	586	143	67	651
Neckwear-pin.....	H. B. Rich.....	526,055	Sept. 18	1272	294	68	1408
Needle-blank grooving and punching machine.....	I. T. Smith.....	512,912	Jan. 16	2004	475	66	406
Needle-blank-swaging machine.....	W. H. Dayton.....	515,576	Feb. 27	2639	656	66	1394
Needle-case.....	J. J. Morrison.....	524,600	Aug. 14	1080	267	68	877
Needle. Ribbon.....	F. Kohlmann.....	523,476	July 24	2263	569	68	462
Needle-threader.....	C. S. Goldman.....	524,896	Aug. 21	1578	326	68	979
Negative-retouching apparatus.....	C. Hornberger.....	522,372	July 3	332	86	68	66
Nest. Hen's.....	J. W. Kaster.....	523,792	July 31	2818	700	68	587
Net frame. Landing.....	G. Kamp.....	520,567	May 29	2232	683	67	1123
Net. Landing.....	A. Holmes.....	524,942	Aug. 21	1664	407	68	994
Net. Landing.....	F. A. Pearsons.....	525,619	Sept. 4	499	120	68	1244
Net. Safety.....	J. P. Dromgoole.....	527,594	Oct. 16	1511	367	69	309
Newspaper-holder.....	A. B. Smith.....	525,868	Sept. 11	975	218	68	1340
Newspaper-stand.....	M. Forst.....	523,934	July 31	3080	767	68	637
Newspapers, reviews, or other printed matter. Clas-	H. Wetzel.....	526,279	Sept. 18	1656	390	68	1479
sifier for							
Nickle and copper mattes. Refining.....	C. G. Richardson.....	518,117	Apr. 10	1169	.....	67	230
Nickel from copper. Electrolytic separation of.....	P. D. Ricketts.....	514,276	Feb. 6	515	.....	66	950
Nickel from its oxides. Extracting.....	J. Garnier.....	511,886	Jan. 2	274	63	66	53
Night-soil, &c. Device for the disposal of.....	L. D. Busbee and C. M. Rosser.....	513,877	Jan. 30	3578	880	66	809
Nipple connection.....	T. R. Brien.....	530,679	Dec. 11	1020	262	69	1426
Nipple-holder.....	G. F. Bard.....	527,168	Oct. 9	802	195	69	164
Nipple-holder.....	J. Canney.....	524,777	Aug. 21	1385	337	68	445
Nipple-holder.....	O. B. Hall and G. H. Graves.....	523,722	July 31	2700	668	68	564
Nipple-holder.....	J. H. Vinton.....	527,031	Oct. 2	590	143	69	111
Nipple-wrench.....	A. Dudley.....	520,562	May 29	2825	682	67	1121
Nipples during threading. Device for holding.....	J. H. Riley.....	513,147	Jan. 23	2365	571	66	544
Nitrocellulose. Drying.....	F. G. Du Pont.....	516,924	Mar. 20	1977	465	66	1853
Nitro compound and making same.....	R. C. Schuppheus.....	514,838	Feb. 13	1439	.....	66	1143
Non-conducting coverings. Fastening for.....	P. Carey.....	526,022	Sept. 18	1218	251	68	1398
Non-conducting handle.....	F. O. Farwell.....	524,708	Aug. 21	1268	312	68	924
Non-conducting material and forming same.....	H. C. Mitchell.....	527,439	Oct. 16	1253	308	69	260
Nose-bag.....	A. H. Hanson.....	514,712	Feb. 13	1232	307	66	1104
Note-indicator.....	P. O'Carroll.....	523,545	July 24	2379	597	68	491
Nozzle.....	F. W. Herbesmann.....	528,431	Oct. 30	2974	719	69	606

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & Gr.	Vol.	Page.
Nozzle and sprinkler. Combined.....	A. L. Young.....	513,291	Jan. 23	2599	629	66	590
Nozzle. Automatic exhaust.....	J. T. McLellan.....	528,549	Nov. 6	44	12	69	654
Nozzle. Can.....	G. J. Record.....	521,989	June 26	2321	534	67	1652
Nozzle. Exhaust.....	S. A. Livingston.....	514,944	Feb. 20	1602	402	66	1188
Nozzle. Spray.....	C. Hood.....	516,931	Mar. 20	1988	467	66	1855
Nozzle. Spray.....	H. F. Neumeyer.....	525,507	Sept. 4	309	76	68	1209
Nozzle. Spraying.....	J. Steel and J. Busha.....	523,294	July 17	1938	487	68	395
Nozzle. Steam-jet.....	L. Schutte.....	519,796	May 15	1525	371	67	850
Nozzle. Universal.....	W. K. Crawford.....	525,487	Sept. 4	281	70	68	1204
Nozzles. Guiding device for discharge.....	C. F. Rodin.....	520,222	May 22	2360	550	67	990
Numbering-machine.....	J. H. Reinhardt.....	521,000	June 5	445	106	67	1277
Numbering-machine.....	J. H. Reinhardt.....	521,001	June 5	446	106	67	1277
Numbering-machine.....	F. Sanders.....	515,368	Feb. 27	2309	573	66	1331
Numbering-machine.....	F. Sanders.....	520,968	June 5	387	94	67	1268
Numbering-machine.....	F. Sanders.....	520,969	June 5	389	95	67	1268
Numbering-machine.....	F. W. Wicht.....	520,976	June 5	406	98	67	1271
Numbering-machine. Consecutive.....	C. Spielmann.....	518,632	Apr. 24	2064	{ 513 514 209 }	67	422
Numbering mechanism.....	M. E. Knight and C. S. Gooding.....	527,205	Oct. 9	857	{ 208 209 }	69	175
Nut and bolt lock.....	T. Berridge.....	528,320	Oct. 30	2784	672	69	572
Nut and bolt lock.....	A. and A. Franklin.....	526,697	Oct. 2	42	12	69	11
Nut and bolt lock.....	J. E. Garvin.....	526,308	Sept. 18	1715	404	68	1491
Nut and bolt lock.....	F. P. Johnson.....	521,470	June 19	1293	301	67	1464
Nut and bolt lock.....	G. L. Rush.....	528,990	Nov. 13	858	203	69	823
Nut and bolt lock.....	I. G. Timney.....	518,974	May 1	61	16	67	547
Nut. Axle.....	E. N. Anderson.....	531,245	Dec. 18	2058	491	69	1619
Nut. Axle.....	J. S. Deats and T. R. Stewart.....	519,468	May 8	960	232	67	734
Nut. Axle.....	R. Pawcett.....	528,293	Oct. 30	2736	661	69	564
Nut. Bolt.....	M. Redlinger and C. Morgan.....	520,802	June 5	79	17	67	1212
Nut-cracker.....	S. Moore.....	522,846	July 10	1153	286	68	233
Nut-cracker and pick.....	R. C. Hall.....	512,818	Jan. 16	1837	435	66	374
Nut-fasteners. Machine for making.....	W. Dunn.....	531,305	Dec. 25	2169	519	69	1656
Nut-finishing machine.....	G. Daubam.....	521,233	June 12	853	{ 200 201 }	67	1365
Nut for spindle-supports. Spring.....	E. J. Carroll.....	528,361	Oct. 30	2854	691	69	585
Nut-lock.....	E. C. Baynes and H. Henderson.....	518,641	Apr. 24	2086	520	67	426
Nut-lock.....	J. J. Bentley.....	520,512	May 29	2739	663	67	1105
Nut-lock.....	E. J. Bickell.....	523,878	July 31	2973	740	68	616
Nut-lock.....	F. R. Bodley.....	525,328	Sept. 4	8	2	68	1152
Nut-lock.....	P. E. Bourgeois.....	517,022	Mar. 27	2152	510	66	1903
Nut-lock.....	C. F. Boyens and J. S. Burkholder.....	518,049	Apr. 10	1063	268	67	210
Nut-lock.....	D. Boyer.....	522,144	June 26	2479	594	67	1701
Nut-lock.....	J. C. Brown.....	521,845	June 26	1935	464	67	1599
Nut-lock.....	J. C. Brown.....	522,585	July 10	706	180	68	154
Nut-lock.....	J. H. Burrows.....	517,728	Apr. 3	525	127	67	102
Nut-lock.....	T. C. Butler.....	516,563	Mar. 13	1373	327	66	1724
Nut-lock.....	J. D. Campbell.....	515,111	Feb. 20	1860	467	66	1234
Nut-lock.....	E. S. Carpenter.....	517,185	Mar. 27	2447	576	66	1960
Nut-lock.....	H. Cole.....	513,884	Jan. 30	3591	884	66	811
Nut-lock.....	J. R. Cribbs.....	522,971	July 17	1371	341	68	291
Nut-lock.....	W. J. Devers.....	514,217	Feb. 6	421	102	66	931
Nut-lock.....	W. J. Dillehay.....	528,532	Nov. 6	15	6	69	649
Nut-lock.....	P. W. Dillon.....	523,976	Aug. 7	13	4	68	665
Nut-lock.....	J. Dittmann.....	529,718	Nov. 27	2130	510	69	1084
Nut-lock.....	H. Dolan.....	531,024	Dec. 18	1653	392	69	1546
Nut-lock.....	W. M. Duane and E. A. Peck.....	524,778	Aug. 21	1387	338	68	945
Nut-lock.....	A. Edwards.....	526,996	Oct. 2	531	130	69	100
Nut-lock.....	A. Fougere.....	522,937	July 10	1304	325	68	262
Nut-lock.....	J. W. and A. W. French.....	522,858	July 10	1207	300	68	244
Nut-lock.....	L. D. Frenot.....	514,315	Feb. 6	588	147	66	963
Nut-lock.....	D. M. Fulton.....	524,895	Aug. 21	1577	386	68	979
Nut-lock.....	W. H. Gelbaugh.....	526,896	Oct. 2	382	95	69	71
Nut-lock.....	G. Gibson.....	524,295	Aug. 7	553	131	68	760
Nut-lock.....	W. H. Harris.....	514,597	Feb. 13	1048	262	66	1067
Nut-lock.....	E. Hays.....	513,393	Jan. 23	2759	672	66	620
Nut-lock.....	J. H. Hebblethwaite.....	522,661	July 10	831	207	68	176
Nut-lock.....	H. Henderson.....	522,562	July 3	658	168	68	129
Nut-lock.....	P. T. Johnston.....	527,390	Oct. 9	1172	287	69	233
Nut-lock.....	W. G. Kay.....	518,066	Apr. 10	1088	274	67	215
Nut-lock.....	E. P. Kendall.....	523,531	July 24	2362	593	68	487
Nut-lock.....	W. W. King and F. M. Dunn.....	514,623	Feb. 13	1085	270	66	1075
Nut-lock.....	C. Lehman.....	522,906	July 10	1252	309	68	252
Nut-lock.....	C. Lehman.....	522,907	July 10	1253	310	68	252
Nut-lock.....	T. J. Litzinger.....	527,179	Oct. 9	818	198	69	167
Nut-lock.....	A. J. Maernmann.....	516,501	Mar. 13	1269	301	66	1505
Nut-lock.....	T. McDonald, Jr.....	519,196	May 1	460	112	67	626
Nut-lock.....	C. N. Meriwether.....	529,742	Nov. 27	2171	517	69	1090
Nut-lock.....	W. W. Owens.....	527,154	Oct. 9	781	190	69	160
Nut-lock.....	B. Porter.....	524,864	Aug. 21	1533	374	68	971
Nut-lock.....	D. Rhodes.....	530,963	Dec. 18	1543	365	69	1526
Nut-lock.....	W. T. Richardson.....	521,941	June 26	2118	508	67	1635
Nut-lock.....	F. S. Robbins.....	528,237	Oct. 30	2646	638	69	547
Nut-lock.....	W. E. Russell and M. S. Woods.....	516,382	Mar. 13	1068	253	66	1666
Nut-lock.....	J. Schirra.....	513,203	Jan. 23	2449	592	66	560
Nut-lock.....	J. W. Schoaf.....	514,339	Feb. 6	622	159	66	969
Nut-lock.....	H. Schwalbe and H. G. Schneider.....	523,549	July 24	2365	598	68	492
Nut-lock.....	G. Siegenthaler.....	522,679	July 10	859	213	68	182
Nut-lock.....	J. E. Simms.....	515,372	Feb. 27	2315	574	66	1332
Nut-lock.....	M. C. and W. J. Slusser.....	513,540	Jan. 30	3029	746	66	706
Nut-lock.....	G. E. Smouse.....	529,970	Nov. 27	2563	617	69	1163
Nut-lock.....	R. C. Snowden.....	513,209	Jan. 23	2457	593	66	561
Nut-lock.....	N. D. Stanley.....	530,290	Dec. 4	381	94	69	1284
Nut-lock.....	S. Stevens.....	529,633	Nov. 20	1986	474	69	1047

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Nut-lock.....	B. F. Sweet.....	515,848	Mar. 6	190	45	66	1488
Nut-lock.....	B. F. Sweet.....	524,493	Aug. 14	909	224	68	845
Nut-lock.....	T. C. Swofford.....	524,004	Aug. 7	61	14	68	673
Nut-lock.....	E. H. Thalaker.....	518,165	Apr. 10	1245	312	67	242
Nut-lock.....	J. Thinner.....	523,605	July 24	2470	620	68	507
Nut-lock.....	J. D. Tynes.....	517,370	Mar. 27	2744	645	66	2018
Nut-lock.....	H. J. Van Nest.....	520,718	May 29	3092	748	67	1170
Nut-lock.....	A. C. Vaughan.....	516,285	Mar. 13	898	212	66	1637
Nut-lock.....	F. B. Wallace.....	518,474	Apr. 17	1807	447	67	363
Nut-lock.....	D. D. Weisell.....	527,560	Oct. 16	1465	357	69	301
Nut-lock.....	J. A. Wells.....	524,034	Aug. 7	110	24	68	682
Nut-lock.....	H. L. Wood.....	530,740	Dec. 11	1177	287	69	1443
Nut-lock.....	W. L. Worland.....	523,029	July 17	1479	368	68	311
Nut-lock.....	S. W. Wright.....	517,534	Apr. 3	190	43	67	38
Nut-lock.....	N. Leidgen.....	529,034	Nov. 13	923	219	69	834
Nut-lock, rail-brace, and tie-plate. Combined.	C. W. and O. P. Page.	524,809	Aug. 21	1438	352	68	955
Nut-lock. Ratchet-washer	E. H. G. Brinser.....	530,881	Dec. 11	1399	333	69	1185
Nut-lock washer	W. B. McMaster.....	523,001	July 17	1423	355	68	300
Nut-locks. Master-key for	J. C. Brown.....	524,024	Aug. 7	196	43	68	697
Nut-locking bolt	E. Stancliff.....	514,570	Feb. 13	988	250	66	1057
Nut-locking device.....	J. R. Deisher.....	511,880	Jan. 2	264	61	66	52
Nut-locking device.....	J. Walsh, Jr.....	514,397	Feb. 6	703	178	66	985
Nut-making machine.....	S. H. Markham.....	515,005	Feb. 20	1688	424 425	66	1204
Nut-making machine.....	A. Urban.....	517,779	Apr. 3	611	151 152 153	67	118
Nut or bolt lock.....	F. B. Bradley.....	530,083	Dec. 4	12	3	69	1217
Nut polishing or edging machine.	G. Dunham.....	515,754	Mar. 6	33	10, 11	66	1461
Nut. Self-locking.....	A. A. Brown.....	525,837	Sept. 11	909	203	68	1329
Nut. Self-flocking.....	W. E. Bunker.....	511,996	Jan. 2	444	104	66	85
Nut. Vehicle-axle.....	F. E. Boss.....	530,387	Dec. 4	550	136	69	1315
Nut. Vehicle spindle.....	R. W. McClelland.....	515,089	Feb. 20	1823	460	66	1228
Nut-wrench.....	F. A. Carrithers.....	512,007	Jan. 2	464	111	66	89
Nut-wrench.....	J. Hardy and B. Dunn.....	513,233	Jan. 23	2499	604	66	571
Nut-wrench and lubricator. Combined.	J. S. Scarborough.....	521,421	June 12	1181	281	67	1427
Nuts. Die for making lock-	S. D. Barnett.....	529,847	Nov. 27	2349	560	69	1124
Oar.....	A. H. Burns.....	517,999	Apr. 10	979	243	67	197
Oar.....	J. N. Dodge.....	515,398	Feb. 27	2360	586	66	1341
Oar.....	W. W. Fraker.....	522,201	July 3	32	8	68	8
Oar. Bow-facing.....	F. Harbers.....	530,519	Dec. 11	799	198	69	1378
Oar. Bow-facing.....	B. F. Kinsey.....	525,269	Aug. 28	2237	546	68	1113
Oar. Bow-facing.....	I. D. Wright.....	522,545	July 3	625	159	68	122
Oar-lock.....	H. Brinkmann.....	528,221	Oct. 30	2614	630	69	541
Oar-lock.....	G. Garton.....	525,099	Aug. 28	1967	481	68	1065
Oar-lock.....	J. D. Prescott.....	521,890	June 26	2006	484	67	1614
Obstetrical apron.....	W. Jackson.....	519,713	May 15	1391	335	67	825
Obstetrical stirrup.....	J. M. Maurer.....	529,626	Nov. 20	1974	471	69	1046
Obtunder. Thermo-electric volatilizing	O. B. Bachman.....	524,156	Aug. 7	329	77	68	721
Oculist's testing-frame.....	J. H. E. De Celles.....	528,716	Nov. 6	336	82	69	707
Oculist's testing-frame.....	J. H. E. De Celles.....	528,717	Nov. 6	338	82	69	708
Odometer. Adjustable.....	T. Schroeder.....	519,592	May 8	1184	285 286	67	775
Odometer-register.....	A. O. Shields.....	525,630	Sept. 4	513	123	68	1247
Office-door indicator.....	W. D. Lawrence and F. A. Hopkins.	521,933	June 26	2210	532	67	1650
Office-indicator.....	H. G. Klenze.....	529,277	Nov. 13	1353	324	69	911
Office-indicator.....	J. H. Phillips.....	515,012	Feb. 20	1705	428	66	1207
Ohmmeter.....	A. H. Armen.....	528,268	Oct. 30	2692	649	69	556
Oil and water separator.....	E. Austin.....	521,199	June 12	794	187	67	1354
Oil-burner.....	C. C. Baldwin.....	519,754	May 15	1449	349	67	836
Oil-burner.....	A. H. Calkins.....	516,363	Mar. 13	1038	247	66	1662
Oil-burner.....	J. Dubelman.....	528,292	Oct. 30	2735	660	69	564
Oil-burner.....	C. A. Holdridge.....	517,341	Mar. 27	2697	633	66	2009
Oil-burner.....	T. McDonald.....	515,499	Feb. 27	2512	622	66	1369
Oil-burner.....	J. M. Merritt.....	520,997	June 5	441	105	67	1276
Oil-burner.....	C. G. Moore.....	528,336	Oct. 30	2808	678 679	69	576
Oil-burner.....	C. Trench.....	520,093	May 22	2015	492	67	956
Oil-burner.....	R. Walton and T. Rees.....	524,268	Aug. 7	501	116	68	752
Oil-burner.....	C. Whittingham.....	528,314	Oct. 30	2778	670	69	571
Oil-burner attachment.....	B. Cross.....	525,261	Aug. 28	2326	542	68	1111
Oil burner. Crude.....	M. Lynch.....	517,411	Mar. 27	2847	667	66	2038
Oil burner. Fuel.....	R. L. Underwood.....	524,289	Aug. 7	544	130	68	759
Oil-burning apparatus.....	J. W. Morris.....	523,675	July 31	2606	649 650	68	549
Oil-can.....	B. H. Chameroy.....	524,245	Aug. 7	465	109	68	746
Oil-can.....	E. R. Deverall.....	513,635	Jan. 30	3187	782	66	734
Oil-can.....	A. Hallowell.....	512,438	Jan. 9	1186	288	66	236
Oil-can.....	C. W. Hart.....	521,113	June 5	642	151	67	1313
Oil-can.....	D. J. Holliger.....	519,042	May 1	170	41	67	569
Oil-can.....	A. E. Johnson.....	516,540	Mar. 13	1335	318	66	1717
Oil-can.....	A. W. Knittel.....	528,946	Nov. 13	793	185	69	811
Oil-can.....	C. H. Phelps.....	515,552	Feb. 27	2603	645	66	1386
Oil-can.....	J. H. Quackenbush.....	522,303	July 3	223	59	68	45
Oil-can.....	G. A. Rawhouser.....	522,087	June 26	2374	571	67	1681
Oil-can.....	J. C. Roth.....	525,744	Sept. 11	736	170	68	1298
Oil-can.....	J. Schwiebert.....	528,565	Nov. 6	64	17	69	658
Oil-can.....	C. Siemens.....	522,743	July 10	997	248	68	204
Oil-can.....	F. B. Smith.....	530,207	Dec. 4	228	56	69	1257
Oil-can.....	C. S. Upton.....	520,505	May 29	2729	661	67	1103
Oil-can.....	F. E. Williamson.....	518,539	Apr. 17	1911	472	67	380
Oil-can.....	W. C. Winfield.....	520,871	June 5	212	47	67	1236
Oil-can.....	F. D. Winkley.....	523,254	July 17	1878	472	68	384
Oil-can and filler.....	E. W. Luce.....	515,124	Feb. 20	1579	472	66	1237

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Oil-can carrier	J. H. Lins	527,339	Oct. 9	1084	262	69	215
Oil-can. Siphon	I. Brokaw	525,975	Sept. 11	1142	259	68	1372
Oil-cloth. Plant for the manufacture of	C. Templeton	529,217	Nov. 13	1245	299 } 300 }	69	891
Oil-cup	C. C. Tyler	531,401	Dec. 25	2335	557	69	1688
Oil-distributor for ships. Gravity	J. Ericson	526,126	Sept. 18	1397	325	68	1430
Oil-engine	H. Campbell	523,511	July 24	2326	585	68	480
Oil-extracting apparatus	J. Meikle, Jr.	525,662	Sept. 4	576	138	68	1257
Oil-extracting apparatus	W. O. Robbins	523,732	July 31	2715	672	68	567
Oil-extractor	N. Clute	512,681	Jan. 16	1577	379	66	325
Oil for vapor-fuel. Apparatus for atomizing petroleum	E. A. Edwards and J. De Neal	512,170	Jan. 2	738	179	66	141
Oil from cotton-seed. Apparatus for extracting	W. T. Forbes	519,424	May 8	885	214	67	722
Oil from fish. Apparatus for extracting	D. F. and W. E. Overton	520,242	May 22	2292	556	67	1005
Oil. Fuel	A. Noteman	512,894	Jan. 16	1977	.....	66	401
Oil-heater	W. Masters	513,404	Jan. 23	2773	677	66	623
Oil heater or cooker	S. Newsome	520,188	May 22	2202	536	67	989
Oil or fat. Apparatus for extracting	J. A. Lighthall, Jr.	515,240	Feb. 20	2079	516 } 517 }	66	1275
Oil or gas burner	C. W. Claybourne	531,509	Dec. 25	2529	605	69	1724
Oil or gasoline can	T. W. Alexander	526,338	Sept. 18	1759	418	68	1590
Oil or oils with another material, &c. Mechanically compounding	J. F. Newell	520,493	May 29	2711	.....	67	1100
Oil-purifier	D. H. McClelland	530,897	Dec. 11	1424	338	69	1490
Oil purifier. Waste	M. D. Hogan	513,787	Jan. 30	3427	845	66	778
Oil-purifying apparatus	C. H. Freyer	516,703	Mar. 20	1615	384	66	1785
Oil storing and feeding apparatus	L. C. Snell	519,439	May 8	908	219	67	726
Oil-tank retailing attachment	F. W. Maley and J. H. Martindale	523,816	July 31	2859	710	68	595
Oils, &c., and making same. Solution of sweet carbamid in	A. Sommer	524,514	Aug. 14	950	.....	68	851
Oils. Desulfurizing mineral	A. Sommer	523,716	July 31	2690	666	68	563
Oils. Desulfurizing mineral	A. Sommer	525,969	Sept. 11	1135	258	68	1370
Oils, fats, and fatty acids. Purifying fixed	F. L. Dyer	522,156	June 26	2498	599	67	1704
Oils. Purifying illuminating	W. B. Price	522,028	June 26	2282	.....	67	1663
Oils. Purifying sulfur compounds of mineral	L. O. Helmers	525,784	Sept. 11	805	.....	68	1311
Oils, &c. Solution of sweet carbamids in	A. Sommer	524,513	Aug. 14	950	.....	68	851
Oiler	G. J. Kraushaar	529,921	Nov. 27	2467	594	69	1145
Oiler for bicycles, &c.	L. Hirsch	521,614	June 19	1543	361	67	1508
Oiler for elevator-guides. Automatic	W. J. Ferguson	517,272	Mar. 27	2579	605	66	1985
Oiler for journal-bearings. Mechanical	G. H. Cole	522,706	July 10	904	223	68	189
Oiler for shafting. Mechanical	G. H. Cole	515,749	Mar. 6	26	7, 8	66	1460
Oiler. Locomotive	J. H. Turner	521,487	June 19	1326	309	67	1470
Oiling bearings. Mechanism for	D. Gessner	521,235	June 12	857	202	67	1366
Oiling device. Trolley	J. R. Labadie	513,067	Jan. 16	2241	539	66	450
Oiling loose wheels or pulleys. Means for	M. Leitch	523,670	July 31	2598	647 } 648 }	68	548
Olive-mill	B. Toulouse and J. Delorieux	527,905	Oct. 23	2040	489	69	423
Open-hearth furnace	J. Purves	528,510	Oct. 30	3110	754	69	631
Opening metal receptacles. Means for	F. C. Busch	526,435	Sept. 25	1967	469	68	1551
Opera-glasses. Apparatus for renting	J. W. Patterson	526,635	Sept. 25	2270	543 } 544 }	68	1607
Orange cup and pulp-remover	H. Maier	529,333	Nov. 13	1446	349	69	930
Orange-holder	G. A. Glahn	527,603	Oct. 16	1524	370	69	311
Orange-polishing machine	A. Warr	528,195	Oct. 30	2566	621	69	533
Orange-sorting machine	E. N. Manil	520,440	May 29	2615	633	67	1083
Ordnance. Automatically-operated breech mechanism for	A. Noble and C. H. Murray	517,391	Mar. 27	2812	656 } 657 }	66	2031
Ordnance. Breech-loading	J. H. Althof	519,308	May 1	668	162 } 163 }	67	666
Ordnance. Breech-loading	G. Gerdorn	515,707	Feb. 27	2851	710	66	1435
Ordnance. Breech-loading	W. Gross and C. Pohlit	523,834	July 31	2896	721 } 722 }	68	602
Ordnance. Breech-loading	A. Noble and E. W. Lloyd	531,594	Dec. 25	2670	641 } 642 }	69	1753
Ordnance breech mechanism	O. W. Bergman and E. Ternström	520,029	May 22	1903	465 } 466 }	67	936
Ordnance breech mechanism	O. F. Leibert	516,768	Mar. 20	1722	405	66	1804
Ordnance breech mechanism	S. O. Leijonstein	529,394	Nov. 20	1575	374 } 375 }	69	973
Ordnance breech mechanism	E. G. Parkhurst	512,743	Jan. 16	1674	402 } 403 } 404 }	66	344
Ordnance. Device for inserting or removing tubes in	M. Gledhill	523,633	July 24	2522	632 } 633 }	68	517
Ordnance firing mechanism	J. B. G. A. Canet	522,509	July 3	567	146	68	112
Ordnance. Pressure-gage for use on heavy	A. C. Meady	523,404	July 24	2129	534 } 535 }	68	446
Ordnance. Recoil-actuated hydraulic breech-operating mechanism for	J. B. G. A. Canet	531,157	Dec. 18	1891	450 } 451 }	69	1590
Ordnance recoil-check	J. B. G. A. Canet	522,508	July 3	564	145 } 146 }	68	111
Ordnance-sight	E. G. Parkhurst	512,744	Jan. 16	1686	404	66	346
Ordnance-sight	E. G. Parkhurst	520,075	May 22	1985	486 } 487 }	67	950
Ordnance-sight	E. v. Skoda	514,969	Feb. 20	1643	411 } 412 }	66	1196
Ordnance. Sighting and indicating apparatus for	H. H. Grenfell	517,746	Apr. 3	557	136	67	108
Ore-concentrating and gold-saving apparatus	C. M. Fitch	524,586	Aug. 14	1059	261 } 262 }	68	872
Ore-concentrating apparatus	W. L. and F. S. Card	519,987	May 15	1827	448	67	906
Ore-concentrator	S. Beer	531,498	Dec. 25	2514	598	69	1721
Ore-concentrator	G. H. Hooper	524,592	Aug. 14	1068	264	68	874
Ore-concentrator	G. H. Hooper	524,593	Aug. 14	1070	264 } 265 }	68	875

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Ore-concentrator	L. Look	526,242	Sept. 18	1600	375	63	1468
Ore-concentrator	T. J. Lovett	515,495	Feb. 27	2507	621	66	1368
Ore-concentrator	T. C. McCleery	523,774	July 31	2785	692	68	580
Ore-concentrator	J. M. Montgomery	531,381	Dec. 25	2306	550	69	1682
Ore-concentrator	C. G. Pingel	516,021	Mar. 6	467	108	66	1539
Ore-concentrator	C. E. Seymour	513,832	Jan. 30	3493	862	66	793
Ore-concentrator	A. C. Springer	527,223	Oct. 9	891	216	69	181
Ore-concentrator	G. W. Waitt	513,849	Jan. 30	3526	862	66	799
Ore-concentrator belt	H. J. Summerhayes	513,216	Jan. 23	2469	596	66	564
Ore-concentrator or mineral-saving machine	T. Davidson	512,811	Jan. 16	1828	433	66	372
Ore-crusher	F. Bishop	519,228	May 1	518	125 126	67	638
Ore-crusher	J. R. Gordon	522,982	July 17	1391	346 347	68	294
Ore-crusher	A. H. Schierholz	531,068	Dec. 18	1721	409 410	69	1559
Ore-crushing mill	H. Burson	518,563	Apr. 17	1950	481 482	67	388
Ore-feeder. Automatic	A. Carstens and D. J. McCormack	522,779	July 10	1058	261	68	216
Ore grinder and amalgamator	C. N. Moore	521,663	June 19	1620	379 380	67	1523
Ore grinder and separator	J. W. MacDonald	531,127	Dec. 18	1833	435 436	69	1579
Ore, &c. Machine for crushing	F. A. Wheeler	529,766	Nov. 27	2207	526	69	1006
Ore-pulverizer, gold-saver, and mineral-concentrator	B. J. Atterbury	511,871	Jan. 2	201	51	66	42
Ore pulverizing and amalgamating mill	J. W. Bailey	530,612	Dec. 11	960	235	69	1406
Ore-roaster	O. W. Davis, Jr.	520,481	May 29	2687	650	67	1096
Ore-roasting and smelting furnace	J. J. Storer	516,662	Mar. 20	1547	369	66	1774
Ore-roasting furnace	W. P. Blake	513,754	Jan. 30	3383	834 835	66	770
Ore-roasting furnace	W. P. Blake	513,755	Jan. 30	3385	835 836	66	770
Ore-roasting furnace	H. F. Brown	519,317	May 8	687	168 169 170	67	684
Ore-roasting furnace	P. Naef	528,016	Oct. 23	2257	544 545	69	461
Ore-roasting furnace	H. C. Rudge	523,487	July 24	2285	574 575	68	472
Ore-roasting furnace	J. J. Storer	516,663	Mar. 20	1551	369	66	1774
Ore-roasting furnace	T. Walker and J. F. Carter	516,781	Mar. 20	1740	409 410	66	1807
Ore-roasting furnace	T. Walker and J. F. Carter	516,782	Mar. 20	1742	410	66	1807
Ore-roasting furnace	T. Walker and J. F. Carter	516,783	Mar. 20	1744	411	66	1808
Ore-roasting furnace	T. Walker and J. F. Carter	516,854	Mar. 20	1857	439	66	1831
Ore-sampler	G. L. Hooper	523,664	July 31	2593	646	68	546
Ore-sampling machinery	G. D. Potter	523,731	July 31	2712	671 672	68	566
Ore-separator	G. Doerflinger	517,974	Apr. 10	922	231	67	189
Ore-separator	E. F. Lacour	514,478	Feb. 13	841	214	66	1029
Ore separator and classifier	J. P. Foley, B. H. Dunshee, and D. H. Anderson	517,799	Apr. 3	640	160	67	124
Ore separator. Magnetic	C. G. Buchanan	531,301	Dec. 25	2163	517 518	69	1654
Ore. Utilizing iron	J. Reese	519,391	May 8	836	.....	67	712
Ore washer or concentrator	C. F. Pike	528,970	Nov. 13	831	195	69	817
Ore washer or concentrator	C. F. Pike	528,971	Nov. 13	832	195	69	818
Ore washer or concentrator	C. F. Pike	528,972	Nov. 13	834	196	69	818
Ore washer or concentrator	C. F. Pike	528,974	Nov. 13	836	197	69	819
Ore washer or concentrator	C. F. Pike	528,975	Nov. 13	837	198	69	819
Ore washer or concentrator	C. F. Pike	528,978	Nov. 13	844	199	69	820
Ore washer or concentrator	C. F. Pike	528,979	Nov. 13	845	200	69	820
Ore washer or concentrator	C. F. Pike	528,980	Nov. 13	847	200	69	821
Ore washer or concentrator	C. F. Pike	528,981	Nov. 13	848	200	69	821
Ore washer or concentrator	C. F. Pike	528,982	Nov. 13	850	201	69	821
Ore washer or concentrator	C. F. Pike	528,983	Nov. 13	852	201	69	822
Ore washer or concentrator	C. F. Pike	529,047	Nov. 13	950	224 225	69	839
Ore washer or concentrator	C. F. Pike	529,080	Nov. 13	1009	244	69	849
Ore washer or concentrator	C. F. Pike	529,187	Nov. 13	1193	287	69	882
Ore washer or concentrator	C. F. Pike	529,188	Nov. 13	1195	288 289	69	883
Ore washer or concentrator	C. F. Pike	529,307	Nov. 13	1412	339 340	69	923
Ore washing, concentrating, and amalgamating system	C. F. Pike	528,973	Nov. 13	835	196	69	818
Ore. Winning metals from magnetic iron	E. Nienstaedt	523,680	July 31	2618	.....	68	551
Ores. Apparatus for the concentration or separation of	M. Stuckey and H. Arthur	518,082	Apr. 10	1105	280	67	218
Ores. Cleaning and amalgamating	C. E. Seymour	511,864	Jan. 2	188	47	66	39
Ores, earths, clays, &c. Separating and recovering the constituents of	H. F. D. Schwahn	514,041	Feb. 6	106	.....	66	874
Ores. Extracting impurities from hematite	W. S. Potter	518,510	Apr. 17	1861	462	67	372
Ores, &c. Grading	D. Brennan, Jr.	529,587	Nov. 20	1922	458	69	1036
Ores. Method of and apparatus for the treatment of	G. M. Rice, Jr.	511,800	Jan. 2	83	21	66	19
Ores. Process of and apparatus for desulfurizing	L. Pelatan and F. Clerici	531,004	Dec. 18	1615	383 384	69	1539
Ores. Process of and apparatus for roasting	C. W. Stickney	512,235	Jan. 2	835	202 203	66	158
Ores. Process of and mechanism for smelting	C. M. Allen	522,446	July 3	473	120	68	94
Ores. Refining	A. E. Barton and G. B. McCormack	519,901	May 15	1690	.....	67	882
Ores. Smelting	W. L. Austin	513,974	Feb. 6	4	.....	66	855
Ores. Treating	F. L. Bartlett	512,531	Jan. 9	1338	323	66	264
Ores. Treating	H. H. Eames	529,441	Nov. 20	1667	397	69	989

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Ores. Treating black-band	E. A. Uehling	513,744	Jan. 30	3368	66	767
Ores with solutions of alkaline cyanides. Leaching.	A. Janin and C. W. Merrill	515,148	Feb. 20	1925	66	1247
Organ	J. Binnig	516,181	Mar. 13	726	170	66	1604
Organ	E. E. Brock	523,322	July 24	1987	499 500	68	421
Organ	M. Hetherington	528,478	Oct. 30	3056	741 742	69	621
Organ	R. Hope-Jones	514,146	Feb. 6	272	67, 68	66	905
Organ	R. Hope-Jones	522,209	July 3	46	11 12 13 14	68	11
Organ	J. Polukanis	519,925	May 15	1724	423	67	888
Organ	G. Sander	512,522	Jan. 9	1327	320 321	66	262
Organ action. Pipe	W. and E. J. King	522,902	July 10	1241	308	68	251
Organ combination stop-action. Pipe	R. W. Jackson	520,925	June 5	329	80	67	1256
Organ-compler	C. Wales	531,077	Dec. 18	1740	415	69	1561
Organ. Pipe	E. Howard	515,957	Mar. 6	350	83	66	1518
Organ. Pipe	R. W. Jackson	520,924	June 5	321	78 79 80	67	1255
Organ. Pipe	E. E. Palm	520,167	May 22	2166	527	67	982
Organ. Pipe	P. Wirsching	518,980	May 1	72	19	67	549
Organ-pipe	W. T. F. Weigle	520,344	May 22	2466	598	67	1039
Organ-player. Automatic	J. A. Brodin	523,829	July 31	2883	716	68	599
Organ-pump	H. and J. Schwesinger	522,184	June 26	2541	610	67	1713
Organ. Reed	A. J. Reynolds	523,649	July 24	2548	639	68	522
Organ. Reed	H. Richardson	516,990	Mar. 20	2087	494	66	1873
Organ. Reed	J. W. Trainer	519,361	May 8	781	191	67	702
Organ. Reed	J. W. Trainer	527,467	Oct. 16	1308	319	69	273
Organ sheath. Month	H. C. Boetticher	524,700	Aug. 21	1255	310	68	922
Organs. Automatic compler for pneumatic	J. V. Pilcher	519,369	May 8	833	202	67	712
Organs. Tubular-key and pneumatic-valve action for	P. Baggestrom	525,578	Sept. 4	436	101	68	1232
Ornament for picture, mirror, or other frames	G. C. Renkauff	512,900	Jan. 16	1983	470	66	403
Ornamental work and making same	E. Crispin	529,782	Nov. 27	2230	532	69	1101
Ornamenting-machine	E. A. Marsh	527,246	Oct. 9	927	223 225 226	69	188
Orthooxyethyl-alpha-benzoylamido-quinolin	G. N. Vis	512,590	Jan. 9	1428	176	66	281
Oven	J. Erben and M. M. Koch	525,780	Sept. 11	760	177	68	1302
Oven	M. C. Farnum	518,057	Apr. 10	1071	271	67	212
Oven	D. C. Green	514,456	Feb. 13	792	202 203 204	66	1021
Oven	A. D. Ordway	513,821	Jan. 30	3479	857	66	789
Oven	A. R. Welch	522,638	July 10	799	199	68	170
Oven	W. H. Wilder	521,689	June 19	1667	391	67	1532
Oven. Bake	J. Middleby	522,075	June 26	2357	566 567	67	1678
Oven. Bake	J. J. Pfenninger	517,125	Mar. 27	2336	550 551	66	1038
Oven. Bake	J. J. Pfenninger	523,005	July 17	1428	357	68	301
Oven. Bake	J. J. Pfenninger. (Reissue)	11,439	Sept. 4	627	148	68	1266
Oven. Bake	P. Walter	514,525	Feb. 13	918	232	66	1043
Oven. Baker's	J. Adair	528,456	Oct. 30	3015	728 729	69	613
Oven. Baker's	F. Dübrkop	525,736	Sept. 11	727	167	68	1296
Oven. Baker's	E. A. C. Petersen	512,623	Jan. 9	1477	356	66	290
Oven. Baker's	A. T. Simpkins	527,892	Oct. 23	2018	484	69	417
Oven. Baker's	F. Stolz	517,251	Mar. 27	2548	597	66	1979
Oven. Direct-draft bake	R. H. and D. C. Craine	517,844	Apr. 10	705	178 179	67	151
Oven-door	F. H. Van Houten	524,362	Aug. 14	693	189	68	804
Oven. Portable	I. Stripe	527,898	Oct. 23	2028	487	69	420
Oven. Reel	W. W. Higgins	528,877	Nov. 6	651	156	69	765
Oven-regulator	M. A. Williams	523,253	July 17	1876	472	68	383
Oven. Rotary	C. J. Bloom	528,069	Oct. 23	2339	565	69	477
Oven-shelves. Device for operating	F. Kaempfen, Jr	519,606	May 8	1206	291	67	778
Ovens by gas. Apparatus for heating	J. L. W. Olsen	518,624	Apr. 24	2050	510	67	420
Overcoat	B. F. Gassaway	519,670	May 8	1312	313 314	67	797
Overflow-alarm for receptacles	R. Byrne	514,116	Feb. 6	218	51	66	896
Overhead switch	A. L. McCredie	512,515	Jan. 9	1319	318	66	261
Overseam for fabrics	H. H. Fefel	523,931	July 31	3073	765	68	635
Overshoe attachment	A. J. Barber	519,656	May 8	1297	310	67	794
Overshoe-retainer	F. T. Guirer	520,985	June 5	422	101	67	1273
Overshoe-securer	O. R. Tower	527,086	Oct. 9	668	183	69	140
Oxids. Apparatus for producing	A. Crossley	531,459	Dec. 25	2450	583	69	1709
Oxygen. Apparatus for making	F. Fanta	519,627	May 8	1247	299 300	67	786
Oxygen generator and bolder	G. R. Prowse	530,453	Dec. 4	647	161	69	1334
Oyster-dredge	A. D. Post	521,918	June 26	2072	497	67	1626
Oyster dredge	D. E. Powers	525,280	Aug. 28	2265	551	68	1120
Oyster-tongs	E. E. Leary	530,346	Dec. 4	460	119	69	1302
Ozone by electricity. Apparatus for producing	E. Andreoli	512,265	Jan. 9	882	213	66	179
Ozone. Process of and apparatus for making	C. R. Poulsen	513,825	Jan. 30	3485	859	66	790
Ozone. Producing	J. T. Donovan and H. L. Gardner	527,326	Oct. 9	1066	257	69	212
Package	M. J. Meeker	526,249	Sept. 18	1610	377 378	68	1470
Package	C. Nelson	514,159	Feb. 6	305	73	66	910
Package. Air-tight	A. Roder	528,260	Oct. 30	2681	647	69	555

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Package and cash carrier. Belt-line.....	A. N. Woodard.....	524,626	Aug. 14	1134	{ 278 279 }	{ 68 68 }	887
Package-carrier.....	W. H. Albach.....	513,449	Jan. 23	2851	699	66	637
Package-carrier.....	S. W. Babbitt.....	525,577	Sept. 4	435	104	65	1232
Package-carrier.....	E. C. Gipe.....	528,203	Oct. 30	2578	624	69	535
Package for containing ices, &c. Hermetically-sealed.....	C. L. Dexter.....	519,839	May 15	1588	388	67	863
Package for goods.....	J. W. Kirkpatrick.....	515,881	Mar. 6	231	54	66	1497
Package or barrel. Knockdown.....	C. Richardson.....	525,158	Aug. 28	2066	504	68	1062
Package-wrappers. Fastening device for.....	W. B. Coulter.....	522,007	June 26	2256	540	67	1658
Package-wrapping machine.....	L. C. Crowell.....	516,186	Mar. 13	734	{ 172 173 174 }	{ 66 66 66 }	1605
Packaging-machine.....	J. S. Voitek.....	513,692	Jan. 30	3280	{ 807 808 411 }	{ 66 66 66 }	751
Packaging-machine.....	J. S. Voitek.....	531,073	Dec. 18	1729	{ 412 413 }	{ 69 69 }	1560
Packaging machines. Tension-regulating attachment for fabric.....	E. P. and R. W. Watson.....	528,750	Nov. 6	398	95, 96	69	718
Packing.....	W. J. Ellis.....	522,459	July 3	494	125	68	98
Packing.....	R. J. McIlhenny.....	516,547	Mar. 13	1344	320	66	1719
Packing.....	N. B. Miller.....	524,178	Aug. 7	358	84	68	727
Packing.....	J. Murphy.....	513,273	Jan. 23	2576	622	66	586
Packing.....	J. Murphy.....	516,874	Mar. 20	1889	446	66	1838
Packing.....	J. W. Peelle.....	522,766	July 10	1038		68	212
Packing and gland. Metallic piston-rod.....	C. H. Ensign.....	520,954	June 5	369	90	67	1265
Packing-bag.....	B. Arkell and C. A. Blowers.....	529,690	Nov. 27	2084	499	69	1076
Packing-box.....	H. B. Everest.....	514,354	Feb. 6	639	163	66	973
Packing-box.....	E. Nolon.....	525,276	Aug. 28	2257	549	68	1119
Packing-box.....	L. Weiss.....	530,671	Dec. 11	1067	259	69	1424
Packing box. Rod or valve.....	D. Spencer.....	521,575	June 19	1473	345	67	1496
Packing. Car-door.....	F. E. Canda.....	513,302	Jan. 23	2617	634	66	594
Packing-case.....	J. Burt.....	529,705	Nov. 27	2110	506	69	1080
Packing-case.....	D. F. Griffiths.....	517,407	Mar. 27	2839	664	66	2036
Packing-case. Hand.....	S. A. Durfee.....	524,463	Aug. 14	866	{ 212 213 214 }	{ 68 68 68 }	837
Packing-case. Knockdown adjustable.....	H. J. Runrille.....	512,521	Jan. 9	1325	320	66	262
Packing compound for thermocauters.....	J. Zoru and F. G. Luchesi.....	529,056	Nov. 13	966		69	842
Packing. Corrugated.....	J. M. Leaver.....	520,366	May 22	2502	605	67	1047
Packing-displacer.....	J. Matthews.....	531,546	Dec. 25	2592	621	69	1737
Packing for journals. Manufacturing.....	H. B. Devlau.....	514,350	Feb. 6	636		66	9.2
Packing for piston-rods. Steam.....	J. J. Walker.....	525,434	Sept. 4	196	49	68	1187
Packing for rock-drill pistons.....	H. M. Osborn.....	520,448	May 29	2626	636	67	1085
Packing for rock-drilling engines.....	G. M. Githens.....	517,690	Apr. 3	466	112	67	90
Packing. Joint-making.....	R. Krüger.....	530,694	Dec. 11	1103	268	69	1430
Packing-machine sack-case.....	A. H. Nordyke.....	514,957	Feb. 20	1623	407	66	1192
Packing. Metallic.....	F. A. Ives.....	518,844	Apr. 24	2432	602	67	487
Packing. Metallic.....	P. W. Willans.....	519,314	May 8	683	166	67	683
Packing. Metallic rod.....	F. J. Cole.....	526,381	Sept. 25	1852	{ 440 441 }	{ 68 68 }	1530
Packing or holding case.....	J. Crocker.....	521,102	June 5	626	147	67	1310
Packing. Pipe-coupling.....	D. R. McKim.....	516,216	Mar. 13	789	184	66	1616
Packing. Piston.....	W. Buckley.....	526,682	Oct. 2	19	5	69	6
Packing. Piston.....	W. Goodman.....	525,073	Aug. 28	1920	470	68	1057
Packing. Piston.....	M. D. Kilmer.....	523,147	July 17	1687	422	68	350
Packing. Piston-rod.....	A. H. Clark.....	517,563	Apr. 3	240	56	67	47
Packing. Piston-rod.....	O. J. Ellis.....	528,773	Nov. 6	444	108	69	727
Packing. Piston-rod.....	T. J. Hudders.....	515,227	Feb. 20	2055	512	66	1270
Packing. Piston-rod.....	A. B. Kay.....	530,423	Dec. 4	605	150	69	1326
Packing. Piston-rod.....	T. Keene.....	530,426	Dec. 4	608	151	69	1326
Packing. Piston-rod.....	C. J. Kelley.....	512,551	Jan. 9	1369	331	66	270
Packing. Piston-rod.....	E. F. Lewis.....	523,671	July 31	2660	648	68	548
Packing. Piston-rod.....	J. Lister.....	524,831	Aug. 21	1485	362	68	963
Packing. Piston-rod.....	J. Lister.....	524,832	Aug. 21	1486	363	68	963
Packing powdered substances.....	J. Barnewitz.....	528,899	Nov. 6	680	164	69	771
Packing. Rod.....	E. A. Bryant.....	525,588	Sept. 4	451	108	68	1235
Packing. Sheet.....	A. P. Cochrane.....	524,162	Aug. 7	337	80	68	723
Packing. Steam.....	H. W. Johns.....	524,441	Aug. 14	829	203	68	830
Packing. Steam.....	J. H. Weitmyer.....	525,063	Aug. 28	1900	463	68	1054
Packing. Valve-stem.....	J. Olson.....	515,055	Feb. 20	1775	448	66	1218
Packing valve-stems.....	I. Pierce.....	512,897	Jan. 16	1980	470	66	402
Packing vehicle-wheels. Device for.....	F. G. Davis.....	518,395	Apr. 17	1668	412	67	338
Packing-vessel and method of preserving food articles. Pad.....	H. Selzer.....	528,649	Nov. 6	233	58	69	688
See Blotting-pad. Rosin-pad.							
Horseshoe-pad. Stair-pad.							
Pouncing-pad.							
Paddle for propelling small boats.....	M. McCloskey.....	514,489	Feb. 13	857	219	66	1032
Paddle-wheel.....	W. Craig.....	528,858	Nov. 6	624	147	69	760
Paddle-wheel and rudder. Stern.....	J. M. Mitchell.....	523,617	July 31	2861	710	68	595
Paddle-wheel boat.....	J. S. Kinneth.....	518,255	Apr. 17	1412	353	67	291
Paddle-wheel. Boat.....	N. Pelletier.....	515,883	Mar. 6	233	55	66	1497
Paddle-wheel. Feathering.....	J. Jacobs.....	527,991	Oct. 23	2218	535	69	454
Paddle-wheel for boats.....	W. H. Knapp.....	526,533	Sept. 25	2115	506	68	1578
Paddle-wheel mechanism for propelling boats.....	J. C. Thomas.....	520,944	June 5	355	86	67	1262
Paddle-wheel. Steamboat.....	P. B. Speer.....	513,836	Jan. 30	3506	863	66	795
Paddle-wheel. Steamship.....	A. Cooper.....	522,827	July 10	1130	220	68	229
Padlock.....	G. M. Hathaway.....	526,650	Sept. 25	2304	551	68	1612
Padlock.....	B. F. Loughmiller.....	517,956	Apr. 10	898	225	67	185
Padlock.....	F. Raymond.....	530,456	Dec. 4	651	162	69	1335
Padlock.....	W. Smith.....	528,743	Nov. 6	383	92	69	716

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Padlock.....	W. E. Sparks.....	521,994	June 26	2230	536	67	1654
Padlock.....	W. F. Troast and S. R. Slaymaker.....	513,160	Jan. 23	2385	576	66	548
Padlock. Master-key.....	J. Roche.....	525,562	Sept. 4	414	100	68	1228
Padlock. Permutation.....	H. C. Lowrie.....	512,979	Jan. 16	2115	502 503	66	426
Padlock. Permutation.....	H. C. Lowrie.....	512,980	Jan. 16	2118	503	66	426
Padlock. Permutation.....	I. B. Rapaport.....	526,740	Oct. 2	118	28, 29	69	24
Padlock. Permutation.....	F. N. Silvey.....	514,387	Feb. 6	669	174	66	983
Padlock. Permutation.....	C. H. Wood.....	529,092	Nov. 13	1030	248	69	853
Pail.....	R. B. A. Knop.....	513,269	Jan. 23	2572	622	66	585
Pail.....	L. J. Noble.....	520,074	May 22	1985	486	67	950
Pail.....	J. A. Steward.....	518,707	Apr. 24	2202	550	67	447
Pail attachment.....	F. M. Buck.....	519,233	May 1	529	127	67	640
Pail. Collapsible.....	H. H. Freer.....	516,194	Mar. 13	754	176	66	1609
Pail-cover.....	R. J. Kidd.....	518,889	Apr. 24	2513	622	67	504
Pail. Dinner.....	H. M. Holmes.....	531,533	Dec. 25	2569	615	69	1732
Pail. Liquid-seal.....	G. Higbie.....	531,313	Dec. 25	2182	522	69	1658
Pail. Milk.....	E. B. Briggs.....	516,470	Mar. 13	1213	291	66	1694
Pail. Milk.....	R. Campbell.....	527,768	Oct. 23	1793	432	69	378
Paint. Composition for removing.....	E. Tessen.....	521,834	June 26	1921	.....	67	1596
Paint. Composition of matter for.....	C. L. C. M. W. H., and A. M. H. de Bruycker.....	529,241	Nov. 13	1287	.....	69*	899
Paint. Luminous.....	C. Kraut.....	518,320	Apr. 17	1521	.....	67	310
Paints. Manufacturing roofing.....	D. L. Means.....	527,068	Oct. 9	643	.....	69	135
Painter's striping-tool.....	J. Zorn.....	514,984	Feb. 20	1662	416	66	1199
Painting apparatus.....	S. A. Brooks.....	531,433	Dec. 25	2387	571	69	1698
Painting compound.....	W. Griscom, Jr.....	529,729	Nov. 27	2147	.....	69	1086
Painting device. Wire.....	J. B. Whalen.....	523,093	July 17	1568	394	68	328
Painting surfaces.....	C. T. Snedekor.....	512,523	Jan. 9	1329	.....	66	263
Pamphlet-stapling machine.....	D. A. Flavell.....	516,156	Mar. 6	677	159 160	66	1580
Pan:							
See Bake-pan.	Evaporating-pan.						
Baking-pan.	Saucepan.						
Basting and roast- ing pan.	Steam or baking pan.						
Dust-pan.	Vacuum-pan.						
Pan-lifter.....	W. Reisse.....	519,549	May 8	1113	267	67	762
Pan-making machine.....	J. S. Birt.....	525,383	Sept. 4	110	29	68	1170
Panel-chair.....	D. B. McHenry.....	527,709	Oct. 16	1694	408	69	342
Panoramic camera.....	F. F. Dunke.....	523,336	July 24	2020	508	68	427
Panoramic camera.....	M. Flammang.....	527,841	Oct. 23	1914	460	69	399
Panoramic roll-holder camera.....	P. S. Marcellus.....	512,512	Jan. 9	1313	317 318	66	260
Pantaloons-protector.....	T. d'Arcourt.....	530,475	Dec. 4	685	171	69	1341
Pantaloons-protector.....	L. D. Jones.....	519,632	May 8	1257	302	67	787
Pants-guard.....	J. H. Collister.....	523,463	July 24	2238	562	68	464
Pantograph.....	W. E. Hoke.....	514,992	Feb. 20	1672	419	66	1201
Pantograph.....	H. V. Joseph.....	529,917	Nov. 27	2462	593	69	1145
Pantograph for engraving and ornamenting watch- cases.....	A. Zwahlen.....	513,962	Jan. 30	3697	911	66	833
Pantograph roll or plate.....	J. Hope.....	518,921	Apr. 24	2565	634	67	513
Paper. Apparatus for drying printed or varnished.....	F. X. Hooper.....	512,877	Jan. 9	1067	260	66	213
Paper bag.....	J. M. Guilbert.....	514,889	Feb. 13	1521	381	66	1158
Paper bag.....	E. Thompson.....	519,398	May 8	846	205	67	714
Paper-bag machine.....	W. B. Purvis.....	519,348	May 8	759	186	67	697
Paper-bag machine.....	W. B. Purvis.....	519,349	May 8	763	187	67	698
Paper-bag machine.....	W. B. Purvis.....	530,650	Dec. 11	1032	251 252	69	1418
Paper-bag-making machine.....	R. Millis.....	513,519	Jan. 30	2983	734 735 736	66	697
Paper bags. Machinery for manufacturing satchel- bottomed.....	A. J. Denoyer.....	515,199	Feb. 20	1999	498 499 500	66	1260
Paper bags. Making.....	E. E. Claussen.....	520,256	May 22	2315	561	67	1010
Paper bags. Making.....	E. E. Claussen.....	520,587	May 29	2865	693	67	1129
Paper bags. Making.....	E. E. Claussen.....	520,951	June 5	364	89	67	1264
Paper bags. Making.....	W. A. Lorenz.....	517,617	Apr. 3	327	77, 78	67	64
Paper bags. Making.....	W. A. Lorenz and E. E. Claussen.....	519,916	May 15	1710	420	67	885
Paper bags. Making.....	W. A. Lorenz and E. E. Claussen.....	529,656	Nov. 20	2027	486	69	1055
Paper-board. Machine for scoring.....	C. W. Gay.....	527,963	Oct. 23	2155	518	69	444
Paper bobbin.....	G. E. Grimm.....	512,698	Jan. 16	1608	386	66	331
Paper box.....	R. P. Brown.....	525,585	Sept. 4	448	107	68	1234
Paper box.....	R. P. Brown.....	525,586	Sept. 4	449	107	68	1235
Paper box.....	D. S. Clark.....	513,760	Jan. 30	3391	836	66	771
Paper box.....	G. A. Colgan.....	512,011	Jan. 2	470	112	66	90
Paper box.....	R. Gair.....	519,451	May 8	924	223	67	729
Paper box.....	H. Goettsch.....	530,334	Dec. 4	456	114	69	1297
Paper box.....	W. B. Howe and F. B. Davidson.....	526,782	Oct. 2	189	45	69	36
Paper box.....	P. Lindemeyer, Jr.....	528,639	Nov. 6	217	54	69	685
Paper box.....	S. E. Patrick.....	514,683	Feb. 13	1184	295	66	1094
Paper box.....	J. Peterson.....	530,239	Dec. 4	291	71	69	1268
Paper box.....	E. E. Pinkerton.....	529,308	Nov. 13	1416	340	69	924
Paper box.....	J. G. Reber and J. L. Sefton.....	514,032	Feb. 6	91	24	66	871
Paper box.....	J. G. Reber and J. L. Sefton.....	514,033	Feb. 6	93	24	66	871
Paper box.....	A. L. Reeves, Jr.....	519,005	May 1	108	26	67	556
Paper box.....	T. F. W. Schmidt.....	518,898	Apr. 24	2530	625	67	507
Paper box.....	F. M. Turck.....	516,247	Mar. 13	842	197	66	1625
Paper box.....	W. J. Walker.....	524,078	Aug. 7	184	41	68	695
Paper box.....	J. Witte, Jr.....	525,378	Sept. 4	104	26	68	1169
Paper box and locking device therefor.....	F. M. Turck.....	516,246	Mar. 13	839	196 197	66	1625

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Paper-box blanks and articles made thereby. Applying borders or binders to edges of	F. S. MacDonald	520,066	May 22	1966	481	67	946
Paper-box blanks. Machine for bending	C. W. Gay	519,671	May 8	1313	314 315	67	797
Paper-box blanks. Machine for making	C. E. Clement	512,278	Jan. 9	905	219	66	183
Paper-box-covering machines. Chuck for	I. Dreyfuss	522,338	July 3	280	73	68	56
Paper-box machine	C. W. Gay	519,531	May 8	1085	260 261	67	757
Paper-box-making machine	H. D. Stone	523,295	July 17	1942	487 488	68	396
Paper-box-making machine	H. D. Stone and C. Thibodeau	523,155	July 17	1696	424 425 426 427	68	351
Paper-box-setting-up machine	G. W. Glazier	515,207	Feb. 20	2017	503 504	66	1264
Paper boxes. Machine for applying strips to	J. H. Beery	516,983	Mar. 20	2072	490	66	1871
Paper boxes. Machine for covering	E. H. Taylor	521,299	June 12	974	230	67	1386
Paper boxes. Machine for making	E. A. Johnston	514,149	Feb. 6	282	69	66	906
Paper boxes. Making	A. C. Lutz	521,031	June 5	495	118	67	1386
Paper can	G. H. Bartlett	525,937	Sept. 11	1072	244	68	1358
Paper-carriers. Lath-feeder for	W. H. Waldron	514,794	Feb. 13	1367	344	66	1129
Paper cases for inclosing cigarettes. Apparatus for making	R. Dalton and H. H. Wills	524,938	Aug. 21	1658	406	68	992
Paper-coating apparatus	F. P. Buffington and J. T. Sutphen	520,402	May 22	2352	616	67	1056
Paper-cutter	J. M. Jones	528,599	Nov. 6	135	33	69	671
Paper-cutter. Reversible	F. Peters	523,965	July 31	3137	782	68	648
Paper-cutter. Roll	D. McLachlan	518,422	Apr. 17	1710	426	67	346
Paper-cutter. Self-clamping	C. L. Smith	521,738	June 19	1747	415	67	1548
Paper-cutting and embossing press	B. Karfiol	528,542	Nov. 6	32	9	69	652
Paper-cutting machine	C. Seybold	511,972	Jan. 2	411	95, 96	66	78
Paper-cutting machine	J. Spencer	519,075	May 1	235	55	67	581
Paper-delivering machine. Coin-controlled	G. A. Hastings	523,936	July 31	3082	767 768	68	637
Paper doll	C. N. Hoyt	526,901	Oct. 2	389	97	69	73
Paper doll	M. McDonald	515,090	Feb. 20	1824	460	66	1228
Paper-drying apparatus	N. Lajoie	512,478	Jan. 9	1263	304	66	251
Paper-fastener	H. H. Cabot	526,855	Oct. 2	306	75	69	58
Paper-fastener	J. H. F. Dixon	516,189	Mar. 13	747	174	66	1608
Paper-fastener	R. M. Pancoast	524,647	Aug. 14	1166	287	68	893
Paper-feeders. Side-registering mechanism for	G. Sague	529,084	Nov. 13	1016	245	69	850
Paper-feeding machine	H. B. Cooley, J. M. Noble, and J. E. Trevor.	530,328	Dec. 4	446	112	69	1295
Paper-feeding machine	N. Lux	529,927	Nov. 27	2477	597	69	1147
Paper-feeding machine	G. Sague	529,414	Nov. 20	1609	382	69	979
Paper-feeding machine	W. Womersley, G. Sague, and M. A. Clapp.	516,325	Mar. 13	955	224 225 226	66	1648
Paper-feeding mechanism	E. Dummer	517,518	Apr. 3	167	38	67	34
Paper fixture. Toilet	S. Wheeler	519,167	May 1	407	98	67	616
Paper. Flock	L. Danois	518,878	Apr. 24	2487	.....	67	499
Paper-folder	E. W. Carr	512,944	Jan. 16	2060	488	66	415
Paper-folding machine	A. Bradley	521,083	June 5	590	138 139 140	67	1303
Paper-folding machine	T. C. Dexter	526,859	Oct. 2	314	76 77 78	69	60
Paper-folding machines. Packing-box for	T. C. Dexter	513,766	Jan. 30	3399	838	66	773
Paper folding or plaiting machine	W. L. Allen	519,465	May 8	947	229 230 231	67	733
Paper for bank-notes, checks, bonds, stocks, and other instruments.	D. N. Carvalho	531,507	Dec. 25	2527	.....	69	1724
Paper-hanger's roller	W. Jones	525,217	Aug. 28	2165	528	68	1100
Paper-hanging apparatus	W. W. Davis	529,249	Nov. 13	1302	313	69	902
Paper holder and cutter. Roll	C. H. Hapgood	524,320	Aug. 14	603	145	68	790
Paper, &c. Holder for	T. Bodley	525,483	Sept. 4	276	68	68	1203
Paper holder. Roll	S. Wheeler	515,849	Mar. 6	191	45	66	1489
Paper holder. Toilet	J. Reid	520,221	May 23	2259	550	67	999
Paper holder. Toilet	A. N. Spooner and H. C. Calkins	516,235	Mar. 13	822	192	66	1622
Paper-machine drier	F. X. Black	523,968	Aug. 7	3	1	68	663
Paper. Machine for feeding sheets of	J. H. Knowles	531,438	Dec. 25	2392	572 573 574 575	69	1699
Paper-machine suction-box	E. Sanderson	528,261	Oct. 30	2688	647	69	555
Paper-machines. Wire-cloth for	J. W. White	512,347	Jan. 9	1018	249	66	204
Paper-machines. Wire-gauze for	P. Tourasse	520,906	June 5	279	67	67	1248
Paper-making machine	G. Lind	517,109	Mar. 27	2311	544 545	66	1933
Paper-making machines. Suction-box mechanism for	J. W. and J. G. Bedale	524,299	Aug. 14	564	134	68	783
Paper-making machines. Thickness-gage for	O. W. T. Am Ende	521,976	June 26	2189	526 527	67	1647
Paper. Making transparent transfer	M. Pfaffensteller	522,350	July 3	300	.....	68	60
Paper-manufactories. Pulp-catcher for	A. G. E. Füllner	518,238	Apr. 17	1384	347	67	286
Paper match-box	G. G. Carbone	518,687	Apr. 24	2162	541	67	441
Paper. Method of and machine for feeding	R. S. Oder	519,341	May 8	737	181 182 183	67	694
Paper. Method of and machine for separating and feeding sheets of	H. Bradshaw	528,918	Nov. 13	740	173 174	69	802
Paper-mill stuff-chest	E. L. Savage	515,941	Mar. 6	326	78	66	1514

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Paper-pail.....	F. W. Wilcox.....	529,053	Nov. 13	961	{ 227 228 }	69	841
Paper-pail-making machine.....	E. Hubbard.....	515,958	Mar. 6	353	83, 84	66	1519
Paper. Pocket package for toilet.....	C. L. Houghton.....	520,055	May 22	1948	477	67	943
Paper. Process of and machine for enameling.....	A. S. Woodward.....	528,752	Nov. 6	403	97	69	720
Paper-pulp-beating engine.....	J. D. Pickles.....	528,027	Oct. 23	2277	549	69	465
Paper-pulp boards in imitation of natural wood. Making.....	W. N. Cornell.....	522,513	July 3	575	.....	68	114
Paper-pulp-making machine.....	A. Sheldon.....	517,149	Mar. 27	2372	{ 560 561 }	66	1945
Paper-pulp. Process of and apparatus for making.....	H. Blackman.....	530,635	Dec. 11	1003	246	69	1413
Paper-pulp strainer.....	M. M. Sloan.....	514,736	Feb. 13	1276	318	66	1111
Paper-registering machine.....	T. C. Dexter.....	524,657	Nov. 6	244	60, 61	69	690
Paper-roll holder.....	W. H. Clarke.....	525,335	Sept. 4	18	4	68	1154
Paper-roll holder.....	C. H. Paine and N. S. Hoffman.....	519,343	May 8	745	184	67	695
Paper-roll tension device.....	W. Black.....	520,874	June 5	216	49	67	1237
Paper-rolls. Holder for cores of.....	A. S. Bowne.....	520,154	May 22	2143	522	67	978
Paper sheets. Case for.....	J. J. Yeates.....	526,282	Sept. 18	1659	391	68	1479
Paper sheets. Method of and apparatus for making separable.....	C. S. Bird.....	514,059	Feb. 6	130	31	66	878
Paper-slitting machine.....	C. E. Pope.....	516,746	Mar. 20	1697	402	66	1800
Paper spool or bobbin.....	G. E. Grimm.....	513,317	Jan. 23	2637	639	66	598
Paper spool or bobbin.....	G. E. Grimm.....	513,318	Jan. 23	2638	640	66	598
Paper-stock. Machine for breaking up strings or balls of.....	C. L. Hamilton.....	527,281	Oct. 9	994	241	69	199
Paper-stock. Process of and machine for making spools or hollow articles from.....	H. Fairbanks and H. Parker.....	523,113	July 17	1619	406	68	338
Paper strips on pasteboard. Apparatus for applying gummed ornamental.....	J. Temler.....	521,871	June 26	1976	477	67	1607
Paper-stuff boxes. Machine for molding.....	P. Sohège.....	516,946	Mar. 20	2014	{ 475 476 }	66	1860
Paper tubes, &c. Coating.....	M. C. Stone.....	527,736	Oct. 16	1740	420	69	351
Paper vessels. Fastening device for.....	W. Foglesong.....	519,571	May 8	1153	{ 277 278 }	67	769
Paper vessels. Machine for making.....	W. Foglesong.....	519,153	May 1	380	{ 91 92 93 }	67	611
Paper waxing or coating machine.....	J. W. Bliss and J. C. Erwin.....	513,030	Jan. 16	2189	522	66	439
Paper-web-feeding device.....	J. L. Cox.....	531,162	Dec. 18	1906	455	69	1592
Paper-weight and letter-file. Combined.....	G. L. Collins and M. Keegan, Sr.....	525,677	Sept. 4	598	143	68	1261
Paper-weight, pen-rack, and calendar. Combined.....	T. F. Krueger.....	528,545	Nov. 6	38	10	69	653
Paper. Wrapping or toilet.....	S. Wheeler.....	511,983	Jan. 2	425	99	66	81
Papers, &c. Device for holding and clamping.....	I. W. Heysinger.....	531,312	Dec. 25	2179	{ 521 522 }	69	1657
Papers, pamphlets, &c. Holder for.....	F. B. F. Campbell.....	514,987	Feb. 20	1666	417	66	1200
Paraffin, &c. Barreling.....	C. C. Burke.....	530,746	Dec. 11	1187	289	69	1445
Parasol for baby-carriages.....	W. A. Marqua.....	522,265	July 3	162	43	68	32
Parasol for children's carriages.....	G. P. Steinbach.....	524,535	Aug. 14	980	{ 240 241 }	68	857
Parasol-runner.....	A. G. Snell.....	525,565	Sept. 4	418	100	68	1229
Paratyldimethylpyrazolone.....	L. Knorr.....	516,707	Mar. 20	1621	.....	66	1786
Parcel and cash carrier apparatus. Tilting.....	A. N. Woodard.....	524,627	Aug. 14	1136	279	68	887
Parcel-carrier.....	L. Weiss.....	530,215	Dec. 4	245	59	69	1260
Parcel-delivery system.....	K. J. C. Carville.....	530,747	Dec. 11	1189	290	69	1446
Parcel-holder.....	W. A. Crane.....	522,196	July 3	16	5	68	6
Parcel or book carrier.....	W. M. Ward.....	512,772	Jan. 16	1763	419	66	361
Parchment fabrics. Making vegetable.....	J. W. Hyatt.....	511,891	Jan. 2	282	65	66	55
Parer and scissors-sharpener. Vegetable and fruit.....	E. Barnum.....	531,404	Dec. 25	2340	558	69	1688
Parer and slicer. Vegetable.....	J. Seubert.....	530,556	Dec. 11	1359	324	69	1477
Parer. Vegetable.....	A. M. Mundell.....	519,890	May 15	1676	408	67	879
Partition. Building.....	F. Keppler.....	515,291	Feb. 20	2168	539	66	1293
Partition. Fireproof.....	S. G. Brinkman.....	518,050	Apr. 10	1063	268	67	210
Partition. Fireproof.....	F. H. Mela.....	515,496	Feb. 27	2509	621	66	1368
Partition. Fireproof.....	O. W. Norcross.....	526,730	Oct. 2	99	24	69	21
Partition for buildings.....	J. F. Golding.....	530,940	Dec. 18	1501	355	69	1519
Partition. Plaster-board.....	G. W. Sessions.....	511,809	Jan. 2	96	24	66	21
Partitions. Iron frame for fireproof.....	A. M. Houston.....	525,903	Sept. 11	1024	231	68	1350
Paste. Making dry adhesive.....	P. Vandenhurgh.....	521,517	June 19	1376	.....	67	1479
Pasting device for sheets, flies, strips, &c.....	A. Day.....	517,684	Apr. 3	457	110	67	88
Pasting-machine.....	G. A. T. Spooner.....	530,312	Dec. 4	414	104	69	1290
Pasting-machine. Paper.....	T. C. Dexter.....	523,331	July 24	2009	506	68	425
Pasting-table. Folding.....	L. Maurer.....	517,756	Apr. 3	576	142	67	112
Pastry or confectionery. Machine for forming articles of.....	D. M. Holmes.....	518,454	Apr. 17	1773	{ 439 440 }	67	357
Pastry-tin.....	A. Eiche.....	513,991	Feb. 6	28	7	66	860
Pattern: See Garment-pattern.							
Pattern. Adjustable garment.....	C. Osse.....	522,800	July 10	1088	268	68	221
Pattern for curvilinear designs. Adjustable.....	W. J. Henley.....	526,900	Oct. 2	388	96, 97	69	72
Pattern for drafting garments.....	M. Lutz.....	516,828	Mar. 20	1814	430	66	1823
Pattern for drafting garments.....	D. Ryan.....	516,449	Mar. 13	1178	{ 282 283 }	66	1688
Pattern for drafting garments. Adjustable.....	H. Horn.....	514,622	Feb. 13	1081	270	66	1075
Pattern. Garment-fitting.....	S. Christiansen.....	526,378	Sept. 25	1847	439	68	1530
Pattern. Garment-fitting.....	S. Christiansen.....	526,380	Sept. 25	1851	440	68	1530
Pattern. Sleeve.....	S. Christiansen.....	526,379	Sept. 25	1849	439	68	1530
Pattern tracing and cutting machine.....	C. E. Reed.....	520,500	May 29	2721	{ 659 660 }	67	1102
Pattern. Trousers.....	J. G. Nickamp.....	523,590	July 24	2450	614	68	504
Patterns for cloth, &c. Apparatus for cutting.....	M. Cramby.....	527,051	Oct. 9	624	{ 151 152 }	69	132
Patterns. Method of and apparatus for marking.....	L. Schaefer.....	519,927	May 15	1727	424	67	888
Patterns. Rapping-plate and drawing-bar for.....	C. W. Leach.....	516,867	Mar. 20	1879	444	66	1835
Pavement.....	V. Parks.....	512,318	Jan. 9	973	238	66	196

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Pavement. Artificial-stone.....	P. M. Bruner.....	515,901	Mar. 6	266	62	66	1503
Pavement. Artificial-stone.....	F. L. Fry and W. J. Fisher.....	530,988	Dec. 18	1588	377	69	1534
Pavement-block.....	L. Weinman.....	526,090	Sept. 18	1337	310	68	1419
Pavement. Fibrous.....	J. H. Amies.....	512,645	Jan. 9	1524	.....	66	300
Pavement. Metallic.....	E. Perrody.....	529,747	Nov. 27	2177	519	69	1091
Pavement of plastic composition.....	J. H. Amies.....	530,077	Dec. 4	3	2	69	1215
Pavement-ornamenting device.....	M. Maurer.....	519,919	May 15	1713	421	67	886
Pavement. Road.....	G. R. Bowen.....	521,364	June 12	1095	257	67	1411
Pavement. Street.....	B. P. Thiebaud.....	512,568	Jan. 9	1392	336	66	275
Pavement. Street.....	B. P. Thiebaud.....	512,569	Jan. 9	1394	{ 336 337 }	{ 66 66 }	275
Pavements. Method of and apparatus for repairing asphalt.....	A. H. Perkins.....	517,191	Mar. 27	2454	577	66	1961
Paving-block.....	J. H. Amies.....	525,832	Sept. 11	902	.....	68	1327
Paving-block.....	G. Bagge.....	527,923	Oct. 23	2073	.....	69	429
Paving-block.....	J. L. Pope.....	519,873	May 15	1649	401	67	873
Paving-block.....	I. G. Peston.....	529,952	Nov. 27	2525	608	69	1155
Paving-roller. Heated.....	W. E. Dennison.....	524,939	Aug. 21	1660	406	68	993
Pawl-and-ratchet mechanism.....	A. J. Shaw.....	528,614	Nov. 6	161	39	69	675
Pawl-and-ratchet mechanism.....	H. R. Towne.....	530,734	Dec. 11	1169	{ 284 285 }	{ 69 69 }	1442
Pawl for machinery. Grip.....	A. S. Washburn.....	522,725	July 10	952	237	68	197
Pea-sheller.....	J. H. Empson.....	527,954	Oct. 23	2137	514	69	440
Pea-shelling machine.....	J. H. Empson.....	527,955	Oct. 23	2140	515	69	441
Pea-shelling machine.....	J. H. Empson and P. McDonald.....	527,956	Oct. 23	2142	515	69	441
Pea-shelling machine.....	D. A. Gaither.....	513,911	Jan. 30	3621	892	66	818
Peach-screen.....	J. P. Wilson.....	523,498	July 24	2305	{ 580 581 }	{ 68 68 }	476
Peanut-roaster.....	E. Taunay.....	513,690	Jan. 30	3277	808	66	751
Peanut sheller and separator.....	C. H. Golling and G. W. Lea.....	512,288	Jan. 9	926	225	66	187
Peat briquets. Machine for forming.....	E. Stauber.....	531,478	Dec. 25	2479	590	69	1714
Pedal.....	J. S. Copeland.....	527,520	Oct. 16	1389	338	69	286
Pedal.....	A. Perkins.....	520,009	May 15	1864	456	67	913
Pedal-crank.....	C. E. Lipe.....	512,303	Jan. 9	948	{ 231 232 }	{ 66 66 }	192
Pedals for crank-powers.....	A. J. Hoyt.....	518,757	Apr. 24	2297	570	67	463
Peeling knife. Fruit.....	N. B. Hale.....	518,501	Apr. 17	1848	459	67	370
Peeling machine. Potato.....	D. Grant.....	521,495	June 19	1342	311	67	1473
Peeling machine. Vegetable.....	C. Beuttel.....	515,994	Feb. 27	2352	584	66	1339
Peeling potatoes, &c. Machine for.....	E. Jaeger.....	524,420	Aug. 14	800	196	68	824
Peeling table. Fruit.....	F. M. Anderson.....	517,511	Apr. 3	158	35	67	32
Peeling table. Fruit.....	F. M. Anderson.....	524,998	Aug. 28	1778	434	68	1032
Pen.....	G. E. Doughty.....	512,607	Jan. 9	1451	351	66	285
Pen.....	A. M. Henry.....	519,953	May 15	1770	433	67	896
Pen. Drawing.....	B. Haug and F. Holler.....	519,155	May 1	389	94	67	612
Pen. Electric perforating.....	A. D. Lewis.....	516,212	Mar. 13	783	183	66	1615
Pen-fender.....	B. F. Smith.....	520,663	May 29	2982	721	67	1150
Pen. Fountain.....	H. L. Braham.....	528,654	Nov. 6	241	59	69	689
Pen. Fountain.....	C. E. Browning.....	516,345	Mar. 13	988	235	66	1654
Pen. Fountain.....	D. C. Demarest.....	522,751	July 10	1011	250	68	206
Pen. Fountain.....	E. M. Gordon.....	525,895	Sept. 11	1013	228	68	1348
Pen. Fountain.....	J. Janka.....	523,352	July 24	2041	513	68	431
Pen. Fountain.....	G. S. Parker.....	512,319	Jan. 9	974	239	66	196
Pen. Fountain.....	E. G. Peck and F. O'Meara.....	523,234	July 17	1837	462	68	376
Pen. Fountain.....	H. T. Smith.....	522,504	July 10	1094	270	68	222
Pen. Fountain.....	P. E. Wirt.....	526,425	Sept. 25	1948	465	68	1547
Pen. Fountain.....	P. E. Wirt.....	526,426	Sept. 25	1950	465	68	1548
Pen. Fountain.....	P. E. Wirt.....	526,427	Sept. 25	1952	465	68	1548
Pen. Fountain.....	P. E. Wirt.....	526,428	Sept. 25	1954	466	68	1548
Pen fountain attachment.....	E. W. Bradford.....	513,002	Jan. 16	2153	512	66	433
Pen. Hog.....	M. C. and Z. S. Randleman.....	523,996	Aug. 7	49	11	68	671
Penholder.....	E. L. Brown.....	529,062	Nov. 13	977	230	69	844
Penholder.....	E. P. McCollom.....	522,482	July 3	525	133	68	104
Penholder.....	W. T. Rightmyer.....	530,603	Dec. 11	947	232	69	1404
Penholder.....	R. P. Saffold.....	528,809	Nov. 6	511	123	69	739
Penholder.....	A. H. Steff.....	526,416	Sept. 25	1934	461	68	1545
Penholder finger-rest.....	M. Goetze.....	516,009	Mar. 6	447	102	66	1535
Penholder-tubes. Machine for forming.....	H. S. Grannis.....	520,526	Sept. 25	2106	502	68	1576
Pen or pencil case.....	F. J. Hille.....	523,812	July 31	2853	708	68	594
Pen-rack.....	W. S. Mendenhall.....	517,757	Apr. 3	577	142	67	112
Pen-rack.....	H. D. Pierce.....	525,620	Sept. 4	501	121	68	1245
Pen rack, stand, and case. Combined.....	W. J. Hunter.....	526,079	Sept. 18	1317	305	68	1416
Pen. Ruling.....	L. Johnson.....	531,124	Dec. 18	1829	434	69	1578
Pen. Writing.....	G. Schagen.....	530,604	Dec. 11	948	233	69	1401
Pens, brushes, &c. Holder for.....	O. A. Weissenborn.....	512,345	Jan. 9	1016	248	66	204
Pencil.....	G. R. Sandell.....	525,966	Sept. 11	1129	257	68	1369
Pencil and sharpener. Combined lead.....	T. F. Harris.....	531,031	Dec. 18	1662	394	69	1547
Pencil-case.....	R. H. Ryan.....	531,135	Dec. 18	1851	439	69	1583
Pencil-case.....	R. H. Ryan.....	531,136	Dec. 18	1852	439	69	1583
Pencil-cases. Machine for making.....	E. Weissenborn.....	515,564	Feb. 27	2619	650	66	1390
Pencil-holder.....	A. N. Hanna.....	513,573	Jan. 30	3085	759	66	716
Pencil-holder.....	R. W. Irwin, Jr.....	523,428	July 24	2163	545	68	452
Pencil-holder.....	S. L. Lazaron.....	513,239	Jan. 23	2513	606	66	574
Pencil holder and sharpener.....	H. A. Veazie.....	521,744	June 19	1758	417	67	1550
Pencil-lead.....	J. A. Cook.....	524,757	Aug. 21	1352	330	68	938
Pencil. Magazine lead.....	B. B. Goldsmith and W. Burt.....	512,954	Jan. 16	2078	492	66	418
Pencil or crayon cases. Making.....	E. Weissenborn.....	515,034	Feb. 20	1745	{ 440 441 }	{ 66 66 }	1213
Pencil-sharpener.....	R. D. Cody.....	530,018	Nov. 27	2665	639	69	1184
Pencil-sharpener.....	J. Dushane.....	516,701	Mar. 20	1612	384	66	1785
Pencil-sharpener.....	J. L. Hall.....	521,313	June 12	997	235	67	1391
Pencil-sharpener.....	W. F. Mayes.....	525,083	Aug. 28	1936	473	68	1060
Pencil-sharpener.....	J. C. McCollum.....	527,803	Oct. 23	1855	446	69	330
Pencil-sharpener.....	F. McIntyre.....	518,853	Apr. 24	2446	606	67	490

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Pencil-sharpener.....	B. Ramsay.....	530,454	Dec. 4	648	161	69	1334
Pencil-sharpener.....	A. Werner.....	517,784	Apr. 3	619	154	67	120
Pencil-sharpener.....	C. F. Wickland.....	526,280	Sept. 18	1657	391	68	1479
Pencil-sharpener and eraser. Combined.....	H. Fisher.....	520,732	May 29	3111	753	67	1174
Pencil-sharpener and point-protector.....	J. T. Mundy.....	530,789	Dec. 11	1258	304	69	1460
Pencil sharpener, grinder, protector, and eraser. Combination.....	R. B. Chambers.....	521,016	June 5	471	112	67	1282
Pencil sharpener. Slate.....	C. W. and W. H. Ogle.....	524,557	Aug. 14	1022	252	68	865
Pencil-tip pin attachment.....	T. E. Ogram and H. L. E. Johnson.....	523,232	July 17	1834	462	68	376
Pendulum-escapement.....	C. E. Buckbee.....	521,012	June 5	467	111	67	1281
Pendulum motor. Compensated.....	J. M. Cayce.....	513,878	Jan. 30	3579	880 } 881	66	809
Perambulator.....	L. Roberts.....	513,248	Jan. 23	2534	611	66	577
Perambulator. Electrically-propelled.....	E. E. Keller.....	523,354	July 24	2043	513	68	431
Percussion-tool.....	W. E. Gibbs.....	517,032	Apr. 10	1025	258	67	205
Perfecting-press. Flat-bed.....	J. L. Cox.....	525,136	Aug. 28	2029	496 } 497	68	1076
Perforating device.....	J. G. Goff.....	526,777	Oct. 2	181	42	69	34
Perforating-machine.....	J. K. Gore.....	516,199	Mar. 13	763	178 } 179	66	1611
Perforating-machine.....	G. B. Kelly.....	517,752	Apr. 3	566	138 } 139	67	110
Perforating-tool.....	H. Warth.....	515,633	Feb. 27	2727	679	66	1411
Perforator.....	J. T. Scott.....	514,778	Feb. 13	1343	336	66	1124
Perfume-receptacle. Portable.....	G. A. Ritter.....	515,169	Feb. 20	1955	488	66	1252
Permanganate block and making same. Porous.....	J. H. Parkinson.....	515,443	Feb. 27	2432	602	66	1354
Permutation-lock.....	J. Bois.....	516,467	Mar. 13	1210	290	66	1694
Permutation-lock.....	L. J. Cooper.....	513,764	Jan. 30	3396	837	66	772
Permutation-lock.....	J. J. Deal.....	512,506	Jan. 9	1306	315	66	258
Permutation-lock.....	F. C. Richards.....	530,551	Dec. 11	856	211	69	1387
Permutation-lock.....	W. B. Ward and J. H. Morris.....	525,299	Aug. 28	2288	556	68	1125
Pessary.....	J. A. Hurdle.....	525,785	Sept. 11	808	184	68	1311
Petroleum, gas, or oil engine.....	L. Crébessac.....	530,161	Dec. 4	144	38	69	1242
Petroleum. Refining.....	H. A. Frasch.....	525,811	Sept. 11	852	.....	68	1319
Petrol-bismuth compound.....	B. R. Seifert.....	516,358	Mar. 13	1027	.....	66	1660
Phonograph.....	T. A. Edison.....	513,095	Jan. 23	2276	550	66	526
Phonograph.....	T. A. Edison.....	513,097	Jan. 23	2279	551	66	527
Phonograph.....	H. J. Lioret.....	528,273	Oct. 30	2707	651 } 652	69	558
Phonograph.....	S. D. McKelvey.....	519,614	May 8	1218	293 } 294	67	781
Phonograph.....	H. L. Sanborn.....	517,072	Mar. 27	2252	533	66	1921
Phonograph. Coin-controlled.....	F. S. Church.....	529,019	Nov. 13	904	213 } 214	69	830
Phonograph. Coin-controlled.....	T. H. Macdonald.....	523,748	July 31	2743	681	68	573
Phonograph coin-operated mechanism.....	G. E. Tewksbury.....	523,556	July 24	2394	600 } 601	68	493
Phonograph-cylinder holder.....	L. B. Gray.....	529,904	Nov. 27	2439	586	69	1141
Phonograph erasing attachment.....	E. H. Amet.....	521,456	June 19	1270	296	67	1459
Phonograph-mandrel.....	A. D. Andrews.....	515,811	Mar. 6	134	33	66	1478
Phonograph-operating attachment.....	A. K. Keller.....	518,190	Apr. 10	1285	325 } 326	67	250
Phonograph-operating machine.....	A. K. Keller.....	518,191	Apr. 10	1298	326 } 327	67	254
Phonograph-operating machine or attachment.....	A. K. Keller.....	518,192	Apr. 10	1304	327 } 328	67	255
Phonograph return-carriage.....	H. Hoischen.....	524,761	Aug. 21	1361	331 } 332	68	940
Phonographs. Attachment for automatically operating.....	E. T. Gilliland and F. W. Toppan.....	518,209	Apr. 10	1332	333	67	260
Phonographs. Coin-released actuating mechanism for.....	G. T. Waldron.....	524,921	Aug. 21	1625	398	68	987
Phonoscopic plates. Producing positive.....	G. Demyen.....	521,705	June 19	1687	396	67	1536
Phosphate rock. Apparatus for treating.....	G. Guild.....	512,958	Jan. 16	2083	494	66	420
Phosphate rock. Apparatus for treating.....	S. Hughes.....	514,006	Feb. 6	49	12	66	863
Phosphate rock. Apparatus for treating.....	R. E. Rose.....	519,393	May 8	839	203	67	713
Phosphorus. Making.....	A. Shearer and R. R. Clapp.....	527,163	Oct. 9	795	194	69	162
Photochromoscope and photochromoscope-camera.....	F. E. Ives.....	531,040	Dec. 18	1677	398	69	1551
Photograph apparatus. Coin-controlled.....	J. A. Parsons.....	519,872	May 15	1646	400	67	873
Photograph-display cabinet.....	H. W. Potteiger and W. A. Kohman.....	521,668	June 19	1629	381	67	1525
Photograph flash-lamp.....	A. Hemsley.....	525,899	Sept. 11	1019	230	68	1349
Photograph-mount.....	D. R. Hanawalt.....	525,458	Sept. 4	239	59	68	1195
Photograph-mounts. Device for cutting cards with beveled edges for.....	B. McHugh.....	524,726	Aug. 21	1303	319	68	930
Photograph-stand.....	A. D. F. Randolph.....	518,073	Apr. 10	1095	276	67	216
Photographs. Apparatus for developing, &c.....	E. F. Mackusick.....	525,849	Sept. 11	936	210	68	1333
Photographs. Method of and lens for making.....	H. Vander Weyde.....	521,064	June 5	557	130	67	1298
Photographers. Background-carrier for.....	M. M. Simmer.....	512,333	Jan. 9	997	244	66	200
Photographer's bath and printing-frame. Combined.....	F. Sandeman.....	513,149	Jan. 23	2369	572	66	545
Photographic apparatus. Coin-controlled.....	J. W. Burton.....	516,076	Mar. 6	553	129 } 130	66	1556
Photographic-background holder.....	C. O. Johnson.....	517,119	Mar. 27	2329	548	66	1937
Photographic burnisher.....	W. H. Boles.....	527,315	Oct. 9	1049	254	69	209
Photographic camera.....	J. C. Hogelein.....	524,142	Aug. 7	302	71 } 72	68	717
Photographic camera.....	J. Tascher.....	525,238	Aug. 28	2195	535	68	1105
Photographic camera. Folding.....	H. Hill and A. L. Adams.....	531,416	Dec. 25	2361	563	69	1693
Photographic camera. Magazine.....	G. P. Spooner.....	522,921	July 10	1275	315 } 316	68	257
Photographic-camera multiplying attachment.....	D. S. Cole.....	517,733	Apr. 3	533	130	67	104
Photographic-camera multiplying attachment.....	D. S. Cole.....	520,034	May 22	1912	468	67	937
Photographic camera. Roll-holding.....	D. H. Houston.....	526,446	Sept. 25	1987	473 } 474	68	1554
Photographic camera. Series.....	M. Mayer.....	525,991	Sept. 11	1164	265	68	1376
Photographic-camera shutter.....	C. W. Eddy.....	512,671	Jan. 9	1558	374	66	307

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'E.	Vol.	Page.
Photographic-camera shutter	S. C. Jones	515,230	Feb. 20	2061	513 514	66	1271
Photographic-camera shutter	W. H. Lewis	512,655	Jan. 9	1537	368 369	66	303
Photographic-camera shutter	W. L. Lightford	517,164	Mar. 27	2405	566 567	66	1951
Photographic-camera shutter	A. G. Tisdell	520,972	June 5	394	95, 96	67	1269
Photographic dark-box	A. D. F. Randolph	518,074	Apr. 10	1096	277	67	216
Photographic developing-tray	A. D. F. Randolph	518,075	Apr. 10	1098	277 278	67	216
Photographic embossing-press	D. D. McKee	514,603	Feb. 13	1055	264	66	1069
Photographic film-holders. Registering and marking apparatus for	H. Mackenstein	518,372	Apr. 17	1636	403 404	67	332
Photographic-gallery skylight	W., H., and J. Shaw	517,364	Mar. 27	2737	643	66	2016
Photographic head and body rest	W. M. Gilson	527,056	Oct. 9	629	153	69	133
Photographic lenses. Means for regulating rays of light passing through	J. W. Fawcett	516,861	Mar. 20	1870	442	66	1834
Photographic paper. Sensitized	W. H. Prestwich	525,512	Sept. 4	319	.....	68	1211
Photographic plate	T. C. Roche	519,645	May 8	1281	.....	67	791
Photographic plate	T. C. Roche	519,646	May 8	1282	.....	67	791
Photographic-plate holder	E. B. Barker	520,290	May 22	2371	575 576	67	1021
Photographic-plate holder	C. C. Spalsbury	512,914	Jan. 16	2010	477	66	407
Photographic-plate holder	J. E. Thornton and E. Pickard	531,012	Dec. 18	1631	387	69	1542
Photographic-print mounter	H. A. Lesure and D. D. Dunklee	525,608	Sept. 4	479	115	68	1241
Photographic prints. Machine for mounting	J. W. McCabe	529,183	Nov. 13	1188	285 286	69	881
Photographic-printing frame	R. M. Hunter	518,922	Apr. 24	2565	634 635	67	513
Photographic-printing frame	C. E. Lewis	513,517	Jan. 30	2980	733	66	697
Photographic shutter	H. H. Turner	520,198	May 22	2217	540	67	991
Photographic view-finder	J. J. Hicks	525,654	Sept. 4	562	135	68	1255
Photographic vignetter	H. L. Hultgren	515,080	Feb. 20	1812	457	66	1226
Photographic vignetter	J. B. Walker	519,800	May 15	1529	373	67	851
Photographically recording time, position, and speed. Apparatus for	W. C. Petri	516,278	Mar. 13	890	209 210	66	1636
Photography by artificial light	B. M. Clinedinst, Jr.	523,323	July 24	1990	500	68	422
Photography. Reproducing objects in relief or intaglio by the aid of	M. Russo	520,707	May 29	3076	.....	67	1167
Piano	A. Felldin	520,139	May 22	2113	515	67	972
Piano	L. and J. F. Matt	513,616	Jan. 30	3152	774	66	728
Piano	M. H. McChesney and J. G. Kunze	527,533	Oct. 16	1414	344	69	291
Piano	H. Müller	512,048	Jan. 2	528	124	66	101
Piano-action	L. A. Barber	527,399	Oct. 16	1190	292	69	249
Piano-action	U. G. Clark and C. Morgan	527,048	Oct. 9	618	149	69	131
Piano-action	T. T. Fischer	527,485	Oct. 16	1332	324	69	277
Piano-action	W. L. Hawes	515,078	Feb. 20	1803	456	66	1225
Piano-action	J. Herrburger	520,929	June 5	428	103	67	1274
Piano-action	F. W. Kringel	517,951	Apr. 10	880	220 221	67	182
Piano-action	J. R. Perry	528,209	Oct. 30	2595	626	69	537
Piano-action	L. Schubert	516,451	Mar. 13	1181	283	66	1689
Piano-action	W. W. Wallace	519,166	May 1	405	97	67	616
Piano action regulator	H. P. Brown	515,279	Feb. 20	2140	532	66	1288
Piano action. Upright	K. V. Barnekov	525,180	Aug. 28	2115	514	68	1090
Piano action. Upright	G. M. Guild	515,049	Feb. 20	1765	445 446	66	1217
Piano-actions. Hammer-rail for	R. H. Comstock	525,591	Sept. 4	456	109	68	1236
Piano attachment	L. M. French and C. Nalence	515,426	Feb. 27	2411	597	63	1349
Piano attachment	C. Nalence	521,937	June 26	2112	506	67	1634
Piano-case	A. J. Newby	531,057	Dec. 18	1706	405	69	1556
Piano. Child's	G. Schönmig	518,200	Apr. 10	1322	330	67	259
Piano-damper	A. T. Strauch	515,176	Feb. 20	1970	491	66	1255
Pianoforte	P. Anderson	522,955	July 17	1349	335	68	227
Pianoforte	J. A. Weser	523,092	July 17	1564	393 394	68	227
Pianoforte-action	T. Cahill	520,667	May 29	2990	723 724	67	1152
Pianoforte-action	H. N. Moore	512,206	Jan. 2	791	132	66	150
Pianoforte-action hammer	A. W. Hall	514,711	Feb. 13	1231	306	66	1103
Pianoforte action. Upright	J. H. Ludwig and C. A. Ericsson	515,152	Feb. 20	1932	484	66	1248
Pianoforte and agraffe therefor	F. B. Long	529,282	Nov. 13	1353	326	69	919
Pianoforte pedal attachment	J. P. Mueller	514,724	Feb. 13	1258	313	66	1108
Pianoforte repeating mechanism	H. Maurer	519,611	May 8	1214	293	67	780
Pianoforte repetition attachment	W. Simkins	527,028	Oct. 2	584	141 142	69	110
Pianoforte sounding-board	A. Boden	513,478	Jan. 30	2912	717	66	684
Pianofortes. Keyboard attachment for	P. Soblik	524,959	Aug. 21	1685	413	68	998
Pianofortes. Self-playing attachment for	T. L. Lebeau	519,157	May 1	392	95	67	613
Piano frame. Upright	J. W. Reed	513,970	Jan. 30	3713	914	66	896
Piano-muffler	O. H. Bollman	519,983	May 15	1822	446	67	905
Piano muffler or soft-stop	E. M. Quint	513,341	Jan. 23	2672	648	66	604
Piano-mute	L. A. Bettendorf	511,747	Jan. 2	13	3	66	5
Piano or organ case. Upright	W. T. Smith	515,926	Mar. 6	302	71	66	1510
Piano or organ. Upright	W. T. Smith	519,797	May 15	1526	372	67	850
Piano-pedal locking device	G. B. Shearer	518,163	Apr. 10	1239	311	67	241
Piano. Practice	W. O. Nisley	527,504	Oct. 16	1363	332	69	282
Piano sounding-board	E. G. Schleicher	522,124	June 26	2435	586	67	1691
Piano-strings. Machine for covering	F. E. Lyon	515,597	Feb. 27	2672	664	66	1401
Piano-stringing machine	F. W. Hedgeland	520,595	May 29	2878	696	67	1132
Piano-tuning hammer	B. F. Fuchs	528,154	Oct. 30	2493	604	69	520
Piano. Zither	A. Marberger	517,285	Mar. 27	2600	609 610	66	1989
Pianos. Music-desk for upright	J. P. Richardson	517,239	Mar. 27	2525	593	66	1975

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Pianos or organs. Wrist-supporting hand-guide for.	C. Heinrich.	519,675	May 8	1319	317	67	799
Pianos. Repeating mechanism for.	F. Lindner.	530,188	Dec. 4	196	48	69	1250
Pianos. Stringing.	C. S. Weber.	514,976	Feb. 20	1654	414	66	1192
Pianos. Treble-bridge for.	C. L. O. Altenburg.	529,994	Nov. 27	2618	628	69	1175
Pick.	J. Z. Coblens.	524,818	Aug. 21	1460	356	68	959
Pick.	J. Z. Coblens.	524,819	Aug. 21	1462	357	68	959
Pick.	J. Z. Coblens.	524,820	Aug. 21	1463	357	68	959
Pick.	M. Hardsocg.	527,331	Oct. 9	1073	259	69	213
Pick, &c. Miner's.	C. Camm.	522,966	July 17	1363	338	68	290
Pick or similar tool.	W. K. Birkinsbaw.	527,829	Oct. 23	1893	455	69	396
Picker:							
<i>See</i> Bean-picker.	Fruit-picker.						
Cotton-picker.	Waste or rag picker.						
Cranberry-picker.							
Picking up pins, &c. Apparatus for.	A. B. Olson.	531,384	Dec. 25	2311	551	69	1683
Pickling-tank.	G. Liebau.	512,725	Jan. 16	1647	396	66	338
Picture-exhibitor.	J. E. Eklund.	520,953	June 5	367	89, 90	67	1264
Picture folding support or stand.	D. B. Williams.	528,704	Nov. 6	322	79	69	705
Picture-frame.	J. J. Allen.	530,385	May 22	2529	611	67	1051
Picture-hanger.	L. Church.	522,510	July 3	570	146	68	112
Picture-hanger.	W. S. Jaeger.	527,793	Oct. 23	1843	443	69	337
Picture-hanger.	P. H. Lynch.	521,291	June 12	959	227	67	1383
Picture-hanger. Adjustable.	M. Schwartz.	517,195	Mar. 27	2459	578	66	1962
Picture-hanging device.	H. Redmond.	520,706	May 29	3075	744	67	1167
Picture-hook.	J. B. Hall.	514,222	Feb. 6	428	103	66	932
Pis-rack. Folding.	T. J. Shannon.	519,007	May 1	111	27	67	557
Pigment from lead-fumes. Making sublimed-lead.	E. O. Bartlett.	515,042	Feb. 20	1756	443	66	1215
Pigment from lead-fumes. Method of and apparatus for making white-lead.	E. O. Bartlett.	515,041	Feb. 20	1754	443	66	1215
Pigment from metallic fumes. Apparatus for the manufacture of.	E. O. Bartlett.	515,040	Feb. 20	1753	443	66	1214
Pigment-furnace.	E. O. Bartlett.	515,039	Feb. 20	1751	442	66	1214
Pigment. Making sublimed-lead.	E. O. Bartlett and C. V. Petraeus.	515,459	Feb. 27	2452	608	66	1358
Pigments. Manufacturing.	G. E. Moore.	518,963	May 1	41	67	544	
Pile-driving apparatus.	C. McDermott.	529,293	Nov. 13	1380	332	69	916
Pile-fabric. Woven.	H. Hardwick.	518,883	Apr. 24	2493	618	67	500
Pile-point and permanent anchor for piles or cables.	D. Neale.	517,880	Apr. 10	756	189	67	160
Pile-shoe.	A. Harris.	521,285	June 12	952	225	67	1382
Piles from teredo, &c. Composition for preserving.	C. Arnoudts.	526,552	Sept. 25	2142	68	1582	
Piles in running water. Apparatus for driving.	W. Baptist. (Reissue).	11,422	July 10	1341	333	68	270
Piles. Method of and apparatus for preserving.	A. A. Polhamus.	518,354	Apr. 17	1599	395	67	325
Piling. Sheet.	J. A. Wakefield.	527,469	Oct. 16	1311	320	69	274
Pill-compressing machine.	R. Shoemaker, Jr.	527,562	Oct. 16	1453	354	69	298
Pill-machine.	A. G. Brown.	519,525	May 8	1075	257	67	755
Pill-machine.	M. R. Chrisler and H. M. Smith.	523,785	July 31	2801	696	68	583
Pill-machine.	A. Colton.	513,986	Feb. 6	22	5	66	859
Pill-machine.	A. Colton.	525,384	Sept. 4	112	29	68	1170
Pillow or cushion.	W. Vogler.	527,634	Oct. 16	1574	380	69	320
Pillow. Sham.	W. T. Lorimer.	516,270	Mar. 13	879	206	66	1634
Pilot-bar lifter.	P. G. Cotter, L. Holladay, and R. J. Duncan.	522,452	July 3	482	122	68	96
Pin:							
<i>See</i> Belaying-pin.	Horse-blanket pin.						
Brooch-pin.	Insulator-pin.						
Crank-pin.	Neckwear-pin.						
Drawing-pin.	Safety-pin.						
Hair-pin.	Scarf-pin.						
Hat-pin.	Wrist-pin.						
Pin.	S. Dancyger.	522,290	July 3	201	55	68	41
Pin.	E. Le Gresley-Cox.	520,165	May 22	2160	526	67	931
Pin.	C. D. Rutherford.	514,132	Feb. 6	244	59	66	900
Pin for attaching flowers to dresses.	E. W. Stifel.	518,868	Apr. 24	2466	611	67	494
Pin-guard.	F. G. Stephenson.	531,397	Dec. 25	2329	555	69	1687
Pin retainer. Scarf.	J. F. Ruffner.	526,746	Oct. 2	128	30	69	25
Pins, bolts, and rivets. Tool for making.	P. J. Conroy.	520,636	May 29	2940	711	67	1143
Pinking-machino.	C. H. Bayley.	527,928	Oct. 23	2081	498	69	430
Pipe:							
<i>See</i> Blowpipe.	Stove or furnace pipe.						
Furnace-pipe.	Suction-pipe.						
Hot-air pipe.	Tobacco-pipe.						
Sheet-metal pipe.	Wooden pipe.						
Soil-pipe.							
Pipe and boiler covering.	C. Ehrlicher.	517,852	Apr. 10	720	67	153	
Pipe and joining edges of same. Conductor.	W. J. Plecker.	518,767	Apr. 24	2311	574	67	466
Pipe and nut wrench. Combined.	G. W. Thomas.	526,420	Sept. 25	1940	463	68	1546
Pipe-bender.	T. Seaton, Sr.	528,036	Oct. 23	2257	552	69	467
Pipe-bending machine.	J. C. Orr.	521,417	June 12	1176	289	67	1427
Pipe-clamp.	C. Hall.	527,200	Oct. 9	850	207	69	173
Pipe-cleaning apparatus.	A. C. Mueller.	528,234	Oct. 30	2641	636	69	546
Pipe. Clip for use in making joints in cast-iron.	E. H. Gowing.	517,611	Apr. 3	915	74	67	62
Pipe connection.	E. B. Vanvorce.	528,045	Oct. 23	2301	555	69	470
Pipe connection.	W. J. Walker.	524,051	Aug. 7	134	30	68	687
Pipe connection for fluids.	T. and W. T. James.	531,615	Dec. 25	2707	649	69	1769
Pipe connection. Metal.	P. J. McGuire.	514,768	Feb. 13	1324	330	66	1121
Pipe corrugating and seam-grooving machine. Sheet-metal.	T. C. Belding.	525,438	Sept. 4	204	50, 51	68	1139
Pipe-coupling.	O. Ames.	530,917	Dec. 18	1465	347	69	1513
Pipe-coupling.	J. D. Anderson.	526,097	Sept. 18	1348	314	68	1421
Pipe-coupling.	A. Bryant.	520,514	May 29	2741	664	67	105
Pipe-coupling.	J. J. Burke.	522,005	June 26	2251	540	67	1657
Pipe-coupling.	W. W. Gage.	521,465	June 19	1283	299	67	1462
Pipe-coupling.	W. Martin.	521,122	June 5	655	154	67	1315

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pipe-coupling.	C. Shields	514,734	Feb. 13	1274	318	66	1111
Pipe-coupling.	B. F. Stone	512,457	Jan. 9	1228	207	66	244
Pipe-coupling apparatus. Air or steam.	J. Emerson	516,480	Mar. 13	1226	294	66	1697
Pipe-coupling. Combination soft and hard metal.	S. M. Friede	521,437	June 12	1217	268	67	1433
Pipe-coupling. Flexible	J. A. Lynch	523,553	July 24	2437	611	63	501
Pipe-coupling. Lead.	F. L. Decarie	511,937	Jan. 2	358	83	66	68
Pipe-covering and manufacturing same.	C. B. Manville	527,867	Oct. 23	1971	474	69	409
Pipe-cutter	J. J. and J. J. McCarthy	531,549	Dec. 25	2596	621	69	1737
Pipe-cutting machine.	J. B. Waring	514,577	Feb. 13	1000	252 } 253 }	66	1059
Pipe. Device for filling joints of metal	J. F. Gleason	519,672	May 8	1315	315	67	798
Pipe dies. Screw-dummy for sewer.	A. F. Foster	521,445	June 12	1239	292 } 293 }	67	1438
Pipe drilling and tapping tool.	M. F. Smith	515,976	Mar. 6	391	91	66	1525
Pipe-drilling device.	J. E. Feely	525,385	Sept. 4	114	30	68	1171
Pipe fastener.	T. C. Belding	525,088	Aug. 28	1947	476	68	1062
Pipe fastener. Conductor.	J. H. Eller	518,943	May 1	14	3	67	539
Pipe-fitting apparatus.	J. W. Cooney	519,568	May 8	1146	275	67	768
Pipe-fitting. Combination-tool for	J. Kohler	522,471	July 3	510	129	68	101
Pipe from mandrels. Removing artificial	W. A. Tipson	518,557	Apr. 17	1936	478	67	385
Pipe-hanger.	A. J. Beaton	528,319	Oct. 30	2783	672	69	572
Pipe-hanger.	R. Boyd	521,149	June 12	703	164	67	1337
Pipe-hanger.	A. Bryant	519,318	May 8	693	170	67	685
Pipe-hanger.	W. McIlvrid	524,603	Aug. 14	1083	267	68	877
Pipe-hanger.	E. G. Minnemeyer	512,257	Jan. 2	868	209	66	164
Pipe-hanger.	F. A. Pelton	518,825	Apr. 24	2409	596	67	423
Pipe-hanger. Steam.	S. O'Brien	515,922	Mar. 6	297	70	66	1509
Pipe-holder.	J. B. Davis	522,456	July 3	499	124	68	97
Pipe-joining device.	W. A. Tipson	518,556	Apr. 17	1935	478	67	385
Pipe-joint.	N. W. Condict	521,017	June 5	472	113	67	1282
Pipe-joint.	W. Sykes	515,627	Feb. 27	2719	677	66	1410
Pipe-joint. Flexible.	A. J. Sargent	524,613	Aug. 14	1113	274	68	823
Pipe-joint-reducing apparatus.	G. O. Rinnman	524,400	Aug. 14	772	188	68	819
Pipe-joint. Steam or water.	J. A. Barlydt	523,615	July 24	2428	625	68	510
Pipe-joint. Submarine.	R. Raun	529,806	Nov. 27	2270	542	69	1108
Pipe-lengths. Fitting for connecting.	G. W. Harrington	520,988	June 5	427	102	67	1274
Pipe-making machine.	W. A. Tipson	518,558	Apr. 17	1937	478 } 479 }	67	385
Pipe-nipples. Device for holding.	T. Gibney	515,826	Mar. 6	156	38	66	1482
Pipe or nut wrench.	H. M. Glines	525,320	Aug. 28	2331	564	68	1132
Pipe or nut wrench.	C. Van De Water	521,130	June 5	671	158	67	1312
Pipe or rod coupling.	S. M. Jones	523,168	Oct. 30	2517	609	69	524
Pipe or rod wrench.	A. S. King and R. Beardsley	513,580	Jan. 30	3096	761	66	718
Pipe plug. Soil or other.	H. G. Tillinghast	521,835	June 26	1921	460	67	1596
Pipe, ratchet, and monkey wrench. Combined	S. M. Friede	525,683	Sept. 4	612	146	68	1263
Pipe-testing apparatus. Gas.	W. P. Kesseling	511,448	Jan. 2	161	41	66	34
Pipe threading and cutting-off machine.	A. W. Cash	519,175	May 1	425	104	67	620
Pipe-wrench.	W. A. Blaisdell	531,299	Dec. 25	2161	517	69	1654
Pipe-wrench.	J. Geisendorfer	519,254	May 1	569	138	67	647
Pipe-wrench.	C. Hall	516,485	Mar. 13	1235	295	66	1699
Pipe-wrench.	C. Hall	523,810	July 31	2850	708	68	593
Pipe-wrench.	E. M. Jackson and F. Roberts	518,818	Apr. 24	2398	592	67	481
Pipe-wrench.	W. King	521,267	June 12	913	216	67	1276
Pipe-wrench.	S. Kreisher	523,356	July 24	2046	514	68	432
Pipe-wrench.	H. Lind	531,125	Dec. 18	1831	434 } 435 }	69	1579
Pipe-wrench.	J. Lytle	522,795	July 10	1020	267	68	220
Pipe-wrench.	M. H. Riza	529,196	Nov. 13	1209	292	69	825
Pipe-wrench.	O. C. Stanley	516,661	Mar. 20	1546	368	66	1773
Pipe-wrench.	D. P. Stanton	523,691	July 31	2637	654	68	554
Pipe-wrench.	L. Wächter	516,286	Mar. 13	899	212	66	1637
Pipe-wrench.	J. E. Wakefield	529,982	Nov. 27	2551	622	69	1166
Pipe-wrench.	C. H. Weaver	516,249	Mar. 13	347	198	66	1626
Pipe-wrench.	J. D. Wilson	527,917	Oct. 23	2062	494	69	427
Pipe-wrench.	G. P. Woelfel. (Reissue)	11,459	Dec. 18	2142	513	69	1635
Pipe-wrench.	J. P. Wynn and T. W. Gillespie	518,517	Apr. 17	1876	464	67	375
Pipe wrench and cutter. Combined	J. Green	514,000	Feb. 6	43	10	66	862
Pipe wrench and cutter. Combined	N. E. Smith	514,166	Feb. 6	312	74	66	912
Pipe-wrench. Chain	C. L. Mahnicke	514,721	Feb. 13	1252	312	66	1107
Pipe-wrench. Chain	J. H. Newell	526,047	Sept. 18	1260	292	68	1406
Pipe-wrench. Chain	J. H. Newell	530,547	Dec. 11	850	210	69	1336
Pipe-wrench. Chain	N. R. Streeter and C. P. Mosher	520,712	May 29	3024	746	67	1169
Pipes, &c. Cap and locking device for closing	J. Rilling	518,008	Apr. 10	991	248	67	199
Pipes, covering wire, &c. Apparatus for manufacturing	A. Wythe	512,143	Jan. 2	684	164	66	131
Pipes. Device for thawing ice from.	I. H. Simpson	529,204	Nov. 13	1222	295	69	887
Pipes. Drain-cup and strainer for air.	A. P. Massey	530,702	Dec. 11	1116	271	69	1433
Pipes. Drainage-trap for steam.	E. E. Gold	522,253	July 3	34	32	68	26
Pipes in situ. Manufacture of monolithic	E. L. Ransome	517,808	Apr. 3	655	164	67	127
Pipes. Machine for forming corrugated elbow.	W. C. Winfield and J. F. McNutt	520,870	June 5	209	47	67	1236
Pipes. Machine for making conductor.	E. H. Fickinger	531,170	Dec. 18	1921	457	69	1585
Pipes. Manufacture of	G. W. Fox	525,197	Aug. 28	2135	521	68	1094
Pipes. Street-box for gas or water	F. A. W. Davis	530,581	Dec. 11	911	223	69	1397
Pipes. Street-box for gas or water	F. A. W. Davis	530,887	Dec. 11	1409	335	69	1487
Pistol	W. W. Kimball	513,237	Jan. 23	2505	605	66	572
Pistol. Magazine.	P. Blachon and E. Minard	520,666	May 29	2988	722 } 723 }	67	1151
Piston-head. Steam-engine.	C. O. Heggem	514,621	Feb. 13	1020	270	66	1074
Piston-removing device.	D. E. Sullivan	526,529	Sept. 25	2197	525	68	1593
Piston-rods electrically. Apparatus to control the strokes of	C. E. Ongley	513,051	Jan. 16	2220	533	66	446
Piston-rods to cross-heads. Device for securing	E. J. Armstrong	521,695	June 19	1674	393	67	1534
Piston-rods to cross-heads. Device for securing	C. G. Turner	524,033	Aug. 7	109	23	68	682
Pitch-board	W. E. Frasier	529,027	Nov. 13	916	217	69	833

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Pitcher. Ice-.....	F. E. Wallace.....	515,632	Feb. 27	2726	679	66	1411
Pitchers, &c. Shield for.....	M. L. Buckley.....	517,789	Apr. 3	626	156	67	121
Pitchfork.....	A. E. Hammarstrom.....	514,069	Feb. 6	146	35	66	881
Pitchforks. Manufacture of.....	F. S. Kretsinger.....	524,719	Aug. 21	1293	316	68	928
Pitching-machine.....	H. Torchiani.....	514,172	Feb. 6	322	77	66	913
Pitman connection.....	T. Regan.....	527,128	Oct. 9	743	182	69	153
Pitman-head.....	P. Swenson.....	517,177	Mar. 27	2427	571	66	1956
Pits or vaults. Constructing water-tight.....	W. Macleod.....	530,646	Dec. 11	1026	250	69	1417
Pivoted tooth-bar.....	J. I. Hoke.....	518,603	Apr. 24	2014	500	67	414
Placards, &c. Machine for bordering.....	M. Funke.....	526,307	Sept. 18	1713	404	68	1491
Placer-machine.....	R. L. Chatterson.....	528,503	Oct. 30	3098	751 752	69	629
Placer machine. Dry.....	T. L. Walmsley and H. H. Wright.....	520,745	May 29	3131	758	67	1177
Placer machine. Dry.....	H. W. and M. Watson.....	529,340	Nov. 13	1455	351	69	932
Placket-fastener for garment-skirts.....	J. Adrianson.....	520,761	June 5	1	1	67	1187
Placket-guard.....	P. Fabisch.....	530,027	Nov. 27	2678	643	69	1187
Plait-forming machine.....	C. C. Emmons.....	528,468	Oct. 30	3043	738	69	618
Plaiting apparatus.....	C. L. Seward.....	531,470	Dec. 25	2468	588	69	1713
Plane.....	J. A. Traut.....	516,413	Mar. 13	1116	265	66	1676
Plane.....	J. A. Traut.....	528,829	Nov. 6	555	133	69	748
Plane.....	J. A. Traut and C. Bodmer.....	515,063	Feb. 20	1787	451	66	1221
Plane.....	J. W. Tripp.....	516,780	Mar. 20	1738	409	66	1806
Plane. Bench.....	G. W. Wright and A. A. Page.....	512,084	Jan. 2	594	143	66	114
Plane. Bench or other.....	T. W. Fuller.....	528,087	Oct. 23	2378	574	69	424
Plane. Carpenter's.....	W. E. Crompton.....	518,521	Apr. 17	1882	466	67	376
Plane. Carpenter's.....	H. Foucault.....	529,681	Nov. 20	2066	495	69	1062
Plane. Carpenter's.....	C. S. Hinnershotz.....	514,226	Feb. 6	432	105	66	933
Plane-iron.....	W. F. Kellett.....	526,154	Sept. 18	1447	398	68	1439
Plane. Rabbeting.....	W. Beddows.....	512,147	Jan. 2	692	167	66	133
Plane. Stop and chamfer.....	A. A. Curry.....	515,659	Feb. 27	2769	689	66	1420
Planer. Automatic gear.....	W. and J. E. Gleason.....	518,497	Apr. 17	1832	455 456	67	368
Planer feed mechanism. Metal.....	W. Gleason.....	514,594	Feb. 13	1042	261	66	1066
Planer feed-roll.....	J. D. Sigler.....	521,297	June 12	966	229	67	1385
Planer. Felly.....	W. R. Dunn.....	517,334	Mar. 27	2681	629 630	66	2005
Planer. Portable.....	H. B. Hughes.....	516,815	Mar. 20	1792	424	66	1817
Planer. Rotary cylinder.....	M. R. Hubbell and W. W. Cate.....	512,583	Jan. 9	1414	341	66	279
Planer. Sliding.....	A. Stables.....	512,916	Jan. 16	2013	477	66	408
Planetarium. Coin-operated.....	J. M. Sullivan.....	525,397	Sept. 4	138	34, 35	68	1175
Planimeter.....	E. J. Willis.....	528,008	Nov. 13	890	210	69	894
Planing and boring machine. Combined.....	J. P. Burnham.....	523,329	Sept. 4	9	2	68	1152
Planing-machine.....	G. Bird.....	513,569	Jan. 30	3562	876 877	66	806
Planing-machine.....	D. Jenkins.....	526,903	Oct. 2	393	98, 99	69	73
Planing-machine.....	J. Thomlinson, Jr., and E. L. Kastholm.....	529,423	Nov. 20	1635	388 389	69	983
Planing-machine feeding device. Metal.....	J. S. Detrick and L. H. Bachtell.....	518,183	Apr. 10	1274	321	67	248
Planing machine. Metal.....	J. S. Wheeler.....	531,489	Dec. 25	2501	595 596	69	1719
Planing-machines. Adjustable bearing for upper feed-rolls of.....	J. R. Thomas.....	520,714	May 29	3087	747	67	1169
Planing machines. Feed-roller for wood.....	W. N. Sawyer.....	519,739	May 15	1428	345	67	832
Plant-holder.....	S. W. Babbitt.....	525,644	Sept. 4	534	130	68	1250
Plant-setter.....	H. M. Hodson.....	519,712	May 15	1389	335	67	825
Plant-support.....	N. Leonard.....	516,632	Mar. 13	1491	354	66	1746
Plants. Apparatus for growing.....	W. Oliver.....	523,991	Aug. 7	42	10	68	669
Planter.....	J. W. Barlow.....	512,462	Jan. 9	1234	298	66	245
Planter.....	J. E. Betts.....	515,318	Feb. 27	2226	551	66	1315
Planter.....	J. W. Campbell.....	526,436	Sept. 25	1969	469 470	68	1551
Planter.....	J. A. Elam.....	519,248	May 1	562	136	67	646
Planter.....	L. C. Evans.....	526,521	Sept. 25	2100	500 501	68	1575
Planter.....	C. E. P. Hobart.....	523,525	July 24	2354	591	68	486
Planter.....	L. B. Lancaster.....	518,671	Apr. 24	2139	535	67	436
Planter.....	J. C. Lloyd.....	515,151	Feb. 20	1929	483	66	1248
Planter.....	Z. H. Miller.....	529,660	Nov. 20	2032	487	69	1055
Planter.....	G. W. Murray.....	520,887	June 5	245	57, 58	67	1242
Planter.....	G. W. Murray.....	520,890	June 5	251	59	67	1243
Planter.....	J. R. Norcott.....	529,298	Nov. 13	1387	334	69	917
Planter.....	R. B. Ormiston.....	515,159	Feb. 20	1942	486	66	1250
Planter.....	J. W. Parker.....	528,235	Oct. 30	2642	637	69	546
Planter.....	J. Specht and I. Armand.....	527,816	Oct. 23	1874	450	69	392
Planter.....	C. W. Warner.....	531,606	Dec. 25	2694	646	69	1757
Planter.....	J. N. Wilson.....	518,979	May 1	68	17 18 19	67	548
Planter and cultivator.....	H. Nehrmeier.....	516,445	Mar. 13	1169	280	66	1686
Planter and cultivator. Combination.....	J. W. Moore.....	523,226	July 17	1826	459 460	68	374
Planter and cultivator. Combined potato.....	J. M. Blake.....	525,068	Aug. 28	1909	467	68	1056
Planter and distributor.....	J. N. Bell.....	512,936	Jan. 16	2043	484	66	412
Planter and fertilizer distributor.....	G. W. Ashcraft.....	528,520	Nov. 6	1	1	69	647
Planter and fertilizer-distributor. Combined.....	H. Compton.....	528,364	Oct. 30	2858	692	69	586
Planter and fertilizer-distributor. Combined.....	A. J. and B. M. Harrington.....	514,071	Feb. 6	149	35	66	882
Planter and fertilizer-distributor. Combined.....	J. R. Kelly.....	513,940	Jan. 30	3661	902	66	825
Planter and fertilizer-distributor. Combined cotton-seed.....	G. W. Murray.....	520,891	June 5	253	59, 60	67	1243
Planter and fertilizer-distributor. Corn.....	J. W. and W. C. Duryea.....	531,105	Dec. 18	1792	427	69	1571
Planter and guano-distributor. Seed.....	J. P. Allen, Sr.....	516,639	Mar. 20	1503	359	66	1765
Planter and tobacco-hiller. Combined.....	T. L. Gray.....	522,367	July 3	326	84	68	64
Planter. Automatic check-row corn.....	A. Anderson.....	516,177	Mar. 13	716	168 169	66	1602

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Planter. Automatic cotton or corn	H. Nehrmeyer	516,446	Mar. 13	1173	281	66	1687
Planter. Cane	E. Olivera y Martinez	513,807	Jan. 30	3459	852	66	785
Planter. Check-row	E. W. Collins	528,761	Nov. 6	420	101 102	69	723
Planter check-row attachment	S. W. Harman and F. H. Romans	531,117	Dec. 18	1816	431 432	69	1575
Planter check-row attachment. Corn	A. V. Biggs	529,104	Nov. 13	1047	252	69	856
Planter. Check-row corn	J. F. De Jarnatt	530,259	Dec. 4	320	80	69	1273
Planter. Check-row corn	E. J. Griffiths and J. G. Miller	512,697	Jan. 16	1607	386	66	331
Planter. Check-row corn	G. R. McGinnis	522,381	July 3	353	90, 91	63	70
Planter. Check-row corn	J. W. Parker	520,862	June 5	197	44	67	1233
Planter. Check-row corn	H. Pittman	513,198	Jan. 23	2444	590	66	559
Planter. Check-row corn	J., W. C., and G. A. Thode	515,265	Feb. 20	2117	525 526	66	1283
Planter. Check-row corn	O. T. Wood	527,824	Oct. 23	1884	452	69	394
Planter. Combined corn and cotton	W. C. Sanders, Jr	526,000	Sept. 11	1181	270	68	1379
Planter. Combined cotton and corn	G. Wittich	520,872	June 5	213	48	67	1236
Planter. Corn	W. Ahlers	528,242	Nov. 6	590	139	69	753
Planter. Corn	A. Anderson	516,176	Mar. 13	711	167 168	66	1601
Planter. Corn	C. A. Beerstecher	522,040	June 26	2302	551	67	1667
Planter. Corn	F. L. Block	527,932	Oct. 23	2090	500	69	432
Planter. Corn	G. W. Campbell	515,046	Feb. 20	1761	444 445	66	1216
Planter. Corn	G. W. Campbell	530,326	Dec. 4	442	110 111	69	1295
Planter. Corn	B. F. Darby	520,669	May 29	3003	725 726	67	1154
Planter. Corn	B. Deardorff	512,646	Jan. 9	1524	366	66	300
Planter. Corn	J. A. Dodd	528,901	Nov. 6	684	164 165	69	772
Planter. Corn	G. D. Frederick	515,329	Feb. 27	2243	555 556	66	1318
Planter. Corn	H. H. Gunner and F. O. Shirley	529,167	Nov. 13	1153	278	69	876
Planter. Corn	M. L. Hall	518,840	Apr. 24	2426	601	67	486
Planter. Corn	A. Klink	527,429	Oct. 16	1238	304	69	257
Planter. Corn	G. P. Kuhn	518,459	Apr. 17	1780	442	67	358
Planter. Corn	J. and J. Kurt	518,960	May 1	37	10	67	543
Planter. Corn	A. Linton and C. Schick	514,943	Feb. 20	1601	402	66	1188
Planter. Corn	G. W. Packer	525,359	Sept. 4	62	17, 18	68	1163
Planter. Corn	E. E. Schlosser	526,749	Oct. 2	132	31	69	26
Planter. Corn	J. Selby	523,414	July 24	2143	538	68	449
Planter. Corn	U. Shaeffer	512,626	Jan. 9	1480	357	66	291
Planter. Corn	B. F. Smith	517,245	Mar. 27	2532	565	66	1976
Planter. Corn	C. O. Weltzin	524,430	Aug. 14	813	198 199	68	827
Planter. Corn and cotton	H. H. Pieper	514,868	Feb. 13	1481	372 373	66	1151
Planter. Corn or cotton	M. Brown	530,256	Dec. 4	316	79	69	1273
Planter. Cotton	J. Harper and F. Clingfast	524,760	Aug. 21	1358	331	68	939
Planter. Cotton-seed	S. P. Sawyer	516,613	Mar. 13	1456	344	66	1740
Planter. Double-row corn	P. M. Weisel	526,646	Sept. 25	2297	550	68	1611
Planter drill attachment	A. L. and D. L. Baughman	513,664	Jan. 30	3240	795	66	743
Planter furrow-closing attachment. Corn	A. W. Trotter	516,067	Mar. 6	543	127	66	1554
Planter. Hand	J. Chadwell	520,726	May 29	3102	751	67	1172
Planter. Hand corn	G. L. Hudson	516,537	Mar. 13	1331	317	66	1716
Planter. Hand corn	P. Schendzelos	517,487	Apr. 3	120	27	67	25
Planter. Hand seed	J. M. Basket	515,643	Feb. 27	2742	684	66	1414
Planter. Hand seed	W. Dulin	521,763	June 19	1807	428	67	1557
Planter or fertilizer-distributor. Seed	J. R. Hunter	511,890	Jan. 2	280	64, 65	66	55
Planter. Potato	D. M. Baldwin	523,954	July 31	3114	775	68	643
Planter. Potato	F. Gaunt	525,893	Sept. 11	1010	227 228	68	1348
Planter. Potato	A. D. George	512,370	Jan. 9	1055	258	66	210
Planter. Potato	T. L. Good	518,141	Apr. 10	1202	301	67	235
Planter. Potato	M. F. Myers	525,918	Sept. 11	1047	238	68	1353
Planter ridging attachment. Corn	L. Runyan	527,160	Oct. 9	791	193	69	161
Planter. Seed	L. D. Benner	519,692	May 15	1355	327 328	67	819
Planter. Seed	V. G. Richey	526,744	Oct. 2	126	30	69	25
Planter. Seed	J. A. Thompson	518,014	Apr. 10	998	250 251	67	201
Planter. Seed	A. Wade	524,474	Aug. 14	880	217	68	840
Planter. Seed	G. H. Willetts	512,079	Jan. 2	587	140	66	112
Planter, seed-drill, and cultivator. Combined corn	M. P. Simpson and E. P. Williams	529,423	Nov. 20	1621	385 386	69	982
Planter seed-dropping mechanism	N. S. Burch	514,411	Feb. 6	722	183	66	989
Planter. Tobacco	W. M. Kuhns	520,187	May 22	2199	535 536	67	988
Planters. Anchor for check-row	J. Valentien	523,388	July 24	2095	527	68	440
Planters. Anchor for check-row	J. A. Whitson	526,424	Sept. 25	1947	465	68	1547
Planters. Feed-actuating device for	P. E. Johnson	530,532	Dec. 11	821	204	69	1381
Planters. Wireless check-row attachment for corn	W. J. Taylor	514,518	Feb. 13	906	230	66	1042
Planting corn. Method of and means for	J. W. Hill and L. D. Benner	529,492	Nov. 20	1762	419	69	1005
Planting-machine fertilizer attachment	L. A. Aspinwall	529,099	Nov. 13	1040	251	69	855
Planting seeds. Appliance for and method of	M. Weber, J. Perschl, and P. Weber	526,512	Sept. 25	2085	497	68	1572
Plaquets of india-rubber, &c. Forming tubular	W. Barr, Jr., and D. McKay	519,900	May 15	1688	411	67	882
Plaster	T. Jones	518,784	Apr. 24	2338	.....	67	472
Plaster-boards. Machine for manufacturing	E. C. Smith	529,535	Nov. 20	1838	438	69	1026
Plaster composition	J. H. Glenn	514,357	Feb. 6	643	164	66	974
Plaster. Composition of matter for	J. D. Prestou	519,548	May 8	1112	.....	67	762
Plaster. Manufacture of	H. C. Higginson	519,259	May 1	575	140	67	649
Plaster. Wall	J. Q. Chase	516,914	Mar. 20	1962	66	1850
Plaster. Wall	A. Hobbs	520,783	June 5	39	67	1204

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Plastering compound	A. W. Smith	528,995	Nov. 13	866	69	824
Plastering-retarder and making same	W. M. Dawson	523,658	July 31	2564	68	542
Plastering walls. Composition for	C. M. Armstrong	516,462	Mar. 13	1303	.....	66	1693
Plastic articles. Manufacture of	K. Witz	520,283	May 22	2360	573	67	1019
Plastic composition	J. Pattigier	529,876	Nov. 27	2394	.....	69	1133
Plastic compound and making same	W. M. Dawson	511,879	Jan. 2	263	.....	66	52
Plastic compounds. Press for molding	J. Hoffman	516,814	Mar. 20	1790	424	66	1817
Plastic material for replacing wood, metal, stone, &c.	L. P. Hemmer	520,824	June 5	125	.....	67	1220
Plastic material. Making indurated articles from	J. C. Peabody	517,011	Mar. 20	2117	.....	66	1880
Plate and cup and saucer holder	O. L. Miller	515,299	Feb. 20	2184	541	66	1296
Plate-holder	M. Flammang	530,100	Dec. 4	39	11	69	1222
Plate-holder. Magazine	A. Stegemann	519,276	May 1	602	{ 146 } 147	67	654
Plate-lifter	A. M. and H. L. Burnham	515,902	Mar. 6	268	62	66	1503
Plate-lifter	H. W. Markham	515,212	Feb. 20	2083	517	66	1276
Plate-lifter. Automatic	G. W. Best	516,342	Mar. 13	985	234	66	1653
Plate or platter	W. C. Gaskill	529,526	Nov. 20	1825	434	69	1017
Platform:							
<i>See</i> Window-platform.							
Platform-step	A. G. Leonard	517,282	Mar. 27	2593	608	66	1988
Platforms. Leveling mechanism for tank and dredge	E. S. Bennett	516,785	Mar. 20	1746	411	66	1808
Plating metallic surfaces with silver. Composition of matter for	J. W. Skinner	511,810	Jan. 2	97	.....	66	22
Plating metals with aluminium	E. C. Broadwell	527,478	Oct. 16	1324	.....	69	276
Plating one material with another	T. A. Edison	526,147	Sept. 18	1435	{ 335 } 336	68	1437
Pliers	J. V. Ashcraft	512,086	Jan. 2	597	143	66	114
Pliers	W. A. Bernard	526,479	Sept. 25	2039	485	68	1562
Pliers. Cutting	W. A. Bernard	526,480	Sept. 25	2040	485	68	1563
Pliers. Wire crimping and fastening	E. L. Williams	526,766	Oct. 2	162	38	69	31
Plow	J. L. Aldred	526,132	Sept. 18	1393	324	68	1429
Plow	W. A. Armstrong	530,061	Nov. 27	2745	658	69	1199
Plow	J. D. Burkhardt, C. H. Waterman, and J. D. Smith.	518,936	May 1	3	1	67	537
Plow	B. F. Cadenhead	512,678	Jan. 16	1572	378	66	324
Plow	M. P. M. Davis	515,752	Mar. 6	30	9	66	1461
Plow	G. Drovedal	531,167	Dec. 18	1916	456	69	1594
Plow	J. T. and J. A. Drummond	517,333	Mar. 27	2679	629	66	2005
Plow	J. S. Edge	517,215	Mar. 27	2492	586	66	1969
Plow	R. Finot	515,876	Mar. 6	226	53	66	1496
Plow	R. E. Hopkins	525,762	Sept. 11	764	177	68	1303
Plow	C. A. Johnson	514,552	Feb. 13	959	243	66	1051
Plow	T. J. Kelley	526,235	Sept. 18	1586	372	68	145
Plow	W. I. Manning	531,322	Dec. 25	2201	527	69	1662
Plow	C. Marsh	521,032	June 5	495	118	67	1286
Plow	G. Martin	520,870	Nov. 27	2386	570	69	1131
Plow	F. S. Moore	513,335	Jan. 23	2665	646	66	603
Plow	G. Moore	513,408	Jan. 23	2777	679	66	624
Plow	H. Oldendorph	528,107	Oct. 23	2413	584	69	490
Plow	H. A. W. Smith	525,867	Sept. 11	974	218	68	1340
Plow	G. B. St. John	512,455	Jan. 9	1225	296	66	243
Plow	G. W. Whatley	528,576	Nov. 6	91	23	69	662
Plow	H. Wiard	515,417	Feb. 27	2391	{ 592 } 593	66	1346
Plow	J. H. Wiles	514,978	Feb. 20	1656	414	66	1198
Plow and planter. Combined	J. F. and E. J. Williams	526,765	Oct. 2	161	38	69	31
Plow and subsoiler. Undercut	H. B. Martin	520,932	June 5	338	82	67	1258
Plow attachment	M. Culbertson and J. J. Burke	528,324	Oct. 30	2792	673	69	573
Plow attachment	O. T. Jensen	521,117	June 5	648	152	67	1314
Plow-beams. Weight for	J. A. L. Gist	531,027	Dec. 18	1658	393	69	1547
Plow. Cultivator	H. C. Otten and A. Kathmann	528,792	Nov. 6	477	116	69	733
Plow. Double-stock	J. T. Barber	524,774	Aug. 21	1383	337	68	944
Plow-fender	J. F. Greiner	513,918	Jan. 30	3631	895	66	819
Plow. Gang	W. H. Holsclaw	530,047	Nov. 27	2712	671	69	1194
Plow. Hand	R. Conway	516,521	Mar. 13	1311	312	66	1712
Plow. Hand garden	W. C. Gilmore	528,937	Nov. 13	768	181	69	807
Plow-holder attachment	G. B. St. John	512,456	Jan. 9	1226	296	66	243
Plow-iron clamp	W. A. Clark	519,806	May 15	1541	376	67	853
Plow or cultivator	H. Forman	521,022	June 5	478	114	67	1283
Plow planter attachment	J. W. Grubbs	527,683	Oct. 16	1656	399	69	335
Plow-point	T. Prentice	530,452	Dec. 4	646	161	69	1334
Plow-points. Mechanism for shaping the welding-edges of	H. G. Sawyer	530,204	Dec. 4	223	55, 56	69	1256
Plow. Reversible	W. W. Miller	516,743	Mar. 20	1692	400	66	1799
Plow. Riding	W. D. Hott	517,923	Apr. 10	830	208	67	174
Plow riding attachment	J. Kleihauer, Jr.	527,996	Oct. 23	2229	538	69	456
Plow riding attachment	W. E. Stafford	523,017	July 17	1457	{ 362 } 363	68	306
Plow. Rotary	J. W. Dunbar	526,806	Oct. 2	225	55	69	42
Plow. Rotary	L. D. Railsback	528,511	Oct. 30	3112	755	69	632
Plow. Rotary	N. H. Roberts	530,964	Dec. 18	1543	366	69	1526
Plow seed-sowing attachment	G. W. Johnson	521,542	June 19	1417	328	67	1486
Plowshare-sharpening machine	S. S. Morrill	513,811	Jan. 30	3466	{ 853 } 854	66	786
Plow-shovel	L. M. Meeter, H. and W. D. McClure	516,544	Mar. 13	1340	320	66	1718
Plow. Side-hill	G. Willard	520,281	May 22	2357	572	67	1018
Plow. Steam	C. F. Johnson	517,047	Mar. 27	2202	{ 521 } 522	66	1912
Plow-stock. Combination	A. E. Jones	526,784	Oct. 2	194	46	69	37
Plow. Submarine	J. Halton	525,897	Sept. 11	1015	229	68	1341
Plow. Sulky	C. Anderson	521,969	June 26	2174	522	67	1644
Plow. Sulky	E. C. Westervelt and C. W. Clapp	526,983	Oct. 2	511	125	69	96
Plow-sulky	H. Clawson	526,805	Oct. 2	224	54	69	42
Plow sulky attachment	H. K. Hoshouer	516,536	Mar. 13	1329	317	66	1716

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				Spec.	Dr'g.	Vol.	Page.
Plow-sweep	J. F. Reeder	513,417	Jan. 23	2789	683	66	627
Plow. Swivel	A. Gale and E. Tremblay	522,341	July 3	285	74	68	57
Plow. Wheel	F. Bunjes	529,479	Nov. 20	1733	413	69	1001
Plow. Wheel	S. D. Poole	523,176	July 17	1741	436	68	359
Plow. Wheel	J. W. Swickard	520,905	June 5	274	66	67	1247
Plow. Wheeled	L. H. Jones	520,645	May 29	2953	715	67	1145
Plow. Wheeled	H. Lindstrom	525,424	Sept. 4	182	46	68	1184
Plug. Fusible	C. G. Ludlow	523,437	July 24	2182	549	68	455
Plug strip. Multiple	H. G. Rounds	519,553	May 8	1119	269	67	763
Plug. Tube	A. L. Harrison	530,840	Dec. 11	1332	320	69	1473
Plumber's grappling-tool	W. Thomas	528,827	Nov. 6	553	132	69	747
Plume-fastener for helmets	L. A. Hayes	521,213	June 12	816	192	67	1358
Plunger-operating mechanism	C. Whitfield	522,279	July 3	187	51	68	39
Plush, &c. Means for preventing creasing of folded	A. Hox	523,528	July 24	2359	592	68	427
Pneumatic brake	F. M. Speed	512,233	Jan. 2	832	202	66	157
Pneumatic cash-carrier apparatus	O. Ames	527,040	Oct. 9	606	147	69	129
Pneumatic controller	E. H. Dewson, Jr.	524,541	Aug. 14	987	243 244 245	68	858
Pneumatic controller	E. H. Dewson, Jr.	524,542	Aug. 14	992	243 245	68	859
Pneumatic dispatch system	O. Konigslow	525,606	Sept. 4	475	114	68	1240
Pneumatic dispatch systems. Receiving and dispatch box for	L. G. Bostedo	523,457	July 24	2227	560	68	462
Pneumatic dispatch systems. Switch-rail for	S. F. Leake	520,064	May 22	1963	480	67	946
Pneumatic dispatch-tube	L. G. Bostedo	523,456	July 24	2225	559 560	68	462
Pneumatic dispatch-tube gate	S. F. Leake	519,718	May 15	1397	337	67	826
Pneumatic dispatch-tube system	S. F. Leake	519,719	May 15	1398	337	67	826
Pneumatic-dispatch-tube, systems. Valve for	A. W. Pearsall	527,073	Oct. 9	649	158	69	137
Pneumatic-dispatch-tube terminal	O. Ames	527,039	Oct. 9	605	147	69	129
Pneumatic dispatch-tubes. Receiving-box for	L. G. Bostedo and E. A. Fordyce	525,583	Sept. 4	443	106	68	1233
Pneumatic dispatch-tubes. Receiving-box for	E. A. Fordyce	525,584	Sept. 4	460	110	68	1237
Pneumatic elevator	J. H. Finley	512,873	Jan. 16	1942	460	66	394
Pneumatic jack	A. J. McDonald	512,313	Jan. 9	961	235	66	194
Pneumatic shears	C. O. Heggen	527,790	Oct. 23	1836	441	69	326
Pneumatic spring	A. C. Mather	530,999	Dec. 18	1605	381	69	1537
Pneumatic-tired wheel	W. Turner	520,504	May 29	2728	661	67	1103
Pneumatic-tired wheel	H. W. Verdon	529,001	Nov. 13	876	206	69	826
Pneumatic tool	J. G. Carlinet	526,342	Sept. 18	1767	419	68	1502
Pneumatic tool	D. Drawbaugh	530,934	Dec. 18	1488	352	69	1517
Pneumatic tool	C. B. King	513,911	Jan. 30	3664	903	66	826
Pneumatic transmitter or store-service	C. O. Yale and J. H. Ames	520,664	May 29	2923	721 722	67	1150
Pneumatic tube-fisher	W. C. Bloomer	526,141	Sept. 18	1423	333	68	1435
Pneumatic-tube systems. Station for	H. C. Kelley	513,236	Jan. 23	2504	604	66	572
Pneumatic tubing	C. W. S. Turner	522,278	July 3	185	50	68	38
Pocket-book	D. M. Read	512,565	Jan. 9	1388	335	66	274
Pocket-book	M. Scheuer	515,096	Feb. 20	1833	462	66	1230
Pocket-book and cigar-case. Combined	E. Waldeburger	522,747	July 10	1007	249	68	206
Pocket-book and head-rest. Combined	F. Denio	531,165	Dec. 18	1911	456	69	1593
Pocket-book and satchel lock. Combined	N. Emert	511,765	Jan. 2	38	10	66	10
Pocket-book. Coin	K. Tompkins	522,809	July 10	1101	271	68	224
Pocket-book guard or fastener	A. Saripkin	523,178	July 17	1746	438	68	360
Pocket-book holder	F. Holzhauser	520,431	May 29	2605	630	67	1081
Pocket-books, purses, or satchels. Frame for	S. Scheuer	527,512	Oct. 16	1376	335	69	224
Pocket-books, &c. Corner or frame for	L. B. Prahar	520,705	May 29	3074	744	67	1167
Pocket. Garment	P. T. Mahon	530,542	Dec. 11	841	207	69	13-5
Pocket-knife	C. C. Moritz and S. D. Greenwood	530,788	Dec. 11	1257	304	69	1459
Pocket-knife	J. P. Nordlow	530,792	Dec. 11	1261	305	69	1460
Pocket-knife	D. A. Stiles	526,167	Sept. 18	1468	343	68	1443
Pocket-knife	B. von Bultzingslöwen	515,045	Feb. 20	1760	444	66	1216
Pocket-knife	B. von Bultzingslöwen	515,742	Mar. 6	15	4	65	1457
Pocket-knife	B. von Bultzingslöwen	515,743	Mar. 6	16	4	66	1458
Pocket register and indicator	T. Stocker	518,797	Apr. 24	2357	584	67	475
Point and switch	J. E. Billups	514,537	Feb. 13	935	236	66	1047
Poison-distributor	F. Splittstoser	525,632	Sept. 4	515	124	68	1247
Poke. Animal	F. Fisher	519,994	May 15	1844	450	67	909
Pole and neck-yoke connection for vehicles	H. L. Kingsley	523,148	July 17	1688	422	68	350
Pole attachment. Vehicle	F. Queiszer	524,337	Aug. 21	1496	366	68	965
Pole. Carriage	N. L. Holmes	524,826	Aug. 21	1472	359	68	961
Pole coupling. Carriage	W. J. Kauffman	525,218	Aug. 23	2166	529	68	1100
Pole coupling. Vehicle	A. Stair	515,451	Feb. 27	2442	605	66	1356
Pole tip. Vehicle	E. Bailey	524,570	Aug. 14	1039	256	63	863
Pole. Vehicle	E. Clark	526,219	Sept. 18	1566	367	68	1461
Pole. Vehicle	W. R. Maxwell	514,951	Feb. 20	1613	405	66	1190
Pole. Vehicle	J. B. Struble	525,295	Aug. 23	2284	555	68	1124
Poles and shafts. Extension-piece for combined	H. Broome	522,962	July 17	1359	337	68	229
Police-signal	M. J. Burns	516,641	Mar. 20	1507	359	66	1766
Polishing and staining machine	L. and A. Schmolli	527,889	Oct. 23	2014	483	69	416
Polishing articles of manufacture. Apparatus for automatically	E. L. Carrington	528,852	Nov. 6	604	143	69	756
Polishing-machine	E. Berglund and A. Reuterdaahl	529,102	Nov. 13	1044	252	69	856
Polishing-machine	M. D. Wayman	514,528	Feb. 13	921	233	66	1044
Polishing-machine expanding cylinder	E. S. Everts	528,554	Nov. 6	16	6	69	649
Polishing-machines. Article-holding table for	F. H. Barnard	515,966	Mar. 6	411	94, 95	66	1529
Polishing-machines. Cylinder-adjusting mechanism for	F. E. Schmitt	525,472	Sept. 4	262	63, 64	68	1200
Polishing-mitt and dauber	T. P. Hebblewhite and F. Harvey	518,144	Apr. 10	1207	303	67	236
Polishing or buffing wheel	T. J. Cleary	520,515	May 29	2743	664	67	1105
Polishing table-knives, &c. Machine for	E. F. Kuechler and H. Starck	518,148	Apr. 10	1212	304	67	237
Polyantograph	L. Kleritj	512,718	Jan. 16	1638	393 394	66	337
Polyantograph	L. Kleritj	512,719	Jan. 16	1640	394	66	337
Poo'-balls. Constructing	V. B. Hubbell	522,791	July 10	1075	266	68	219

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Pool-balls. Manufacturing	V. B. Hubbell	522,792	July 10	1076	266	68	219
Pool-register	G. J. Wainwright	524,123	Aug. 7	283	61, 62	68	710
Portable elevator	W. M. S. Garrison	522,252	July 3	132	31, 32	68	26
Portable furnace	W. I. Castleman	519,236	May 1	536	129	67	642
Portable heater	J. Graves	516,010	Mar. 6	447	103	66	1535
Portable motor	A. H. Tyler and J. S. E. de Vesian.	512,527	Jan. 9	1334	322	66	263
Portfolio	W. Jeschke	515,687	Feb. 27	2823	703	66	1430
Post:							
<i>See</i> Bumping-post. Lamp-post.							
Directory-post. Metal post.							
Fence-post. Tubular metallic post.							
Hitching-post.							
Post-driver	C. T. Cannon	513,379	Jan. 23	2733	{ 661 665 }	66	615
Post-driver	R. Heaton	516,649	Mar. 20	1524	{ 362 363 }	66	1768
Post-hole digger	W. Daugherty and J. S. Hill	515,731	Feb. 27	2886	720	66	1442
Post or column	O. André	527,310	Oct. 9	1040	252	69	207
Post or pole hole machine	J. P. Morris	515,245	Feb. 20	2086	518	66	1276
Postal-card. Return	J. G. Wallace	520,816	June 5	109	24	67	1216
Pot:							
<i>See</i> Coffee-pot. Glue-pot.							
Flower-pot. Watering-pot.							
Pot chain and scraper. Combined	N. R. Streeter	514,840	Feb. 13	1443	362	66	1144
Pot or kettle	E. Gerber	519,764	May 15	1465	355	67	839
Potash alum and alumina. Making	J. Heibling	521,712	June 19	1703	400	67	1540
Potato-cutter	L. A. Aspinwall. (Reissue)	11,417*	Apr. 24	2601	{ 643 644 }	67	519
Potato cutter. Seed	H. C. Odell	523,750	July 31	2748	682	68	574
Potato-cutting machine	C. V. Jones	513,510	Jan. 30	2965	{ 730 731 }	66	694
Potato-digger	J. A. Buck	517,516	Apr. 3	164	37	67	33
Potato-digger	A. H. Dodd	514,065	Feb. 6	138	33, 34	66	880
Potato-digger	T. Donoho	530,263.	Dec. 4	328	81	69	1275
Potato-digger	G. D. N. Edie	513,769	Jan. 30	3402	839	66	773
Potato-digger	C. H. Hall	529,122	Nov. 13	1070	{ 258 259 }	69	861
Potato-digger	D. Y. Hallock	515,120	Feb. 20	1874	470	66	1237
Potato-digger	J. F. W. Henck	512,442	Jan. 9	1200	290	66	239
Potato-digger	M. Klema	527,863.	Oct. 23	1965	472	69	408
Potato-digger	W. F. McNamire	526,868	Oct. 2	332	81	69	63
Potato-digger	G. W. Phipps	525,361	Sept. 4	71	20	68	1164
Potato-digger	B. A. Reynolds	521,940	June 26	2115	{ 507 508 }	67	1635
Potato-digger	A. Smethurst	520,902	June 5	270	65	67	1246
Potato-digger	N. Sturdy	521,057	June 5	543	{ 127 128 }	67	1295
Potato separating and cleaning machine	I. C. Butler and G. S. Shepard	530,086	Dec. 4	17	4	69	1218
Pottery. Decorating	M. L. McLaughlin	526,669	Sept. 25	2349		69	1621
Pottery-kiln	J. Hawthorn	515,221	Feb. 20	2047	510	66	1269
Pottery-machine for forming oval ware	A. Lowry	519,610	May 8	1213	292	67	780
Pouncing-pad. Flexible	G. E. Brush	515,992	Mar. 6	423	97	66	1531
Powder:							
<i>See</i> Bleaching-powder. Smokeless powder.							
Metallic powder. Soap powder.							
Powder-box	C. P. Thomas	520,343	May 22	2464	597	67	1038
Powder distributor	C. H. Leggett	519,720	May 15	1399	{ 337 338 }	67	827
Powder-divider	R. E. McClelland	526,728	Oct. 2	96	24	69	20
Powder-folding machine	W. A. Hill	529,908	Nov. 27	2445	{ 588 589 }	69	1142
Powder holding and delivering device	J. C. Michael	519,387	May 8	828	202	67	711
Powder. Manufacture of smokeless	F. G. du Pont	519,702	May 15	1371	331	67	822
Powder or shot feeding mechanism	C. S. Hisey	523,097	Oct. 23	2396	579	69	486
Powder-receptacle	A. P. Thompson and W. B. Murray	523,184	July 17	1756	440	68	361
Powders, &c. Device for dividing	R. Walsh	531,237	Dec. 18	2043	487	69	1616
Powders. Manufacturing metallic	J. Sachs and E. Huber	521,991	June 26	2325	535	67	1653
Powders. Manufacturing metallic	J. Sachs and E. Huber	521,992	June 26	2326		67	1653
Powdered materials. Apparatus for agitating and blending	J. S. Detwiler	525,138	Aug. 28	2035	497	68	1078
Powdered materials. Apparatus for blending	J. S. Detwiler	525,095	Aug. 28	1961	{ 479 480 }	68	1064
Powdering plates, &c. Machine for	B. Baugh	519,786	May 15	1508	{ 367 368 }	67	847
Power:							
<i>See</i> Churn-power. Water-power.							
Foot or hand power. Wave and current power.							
Power. Apparatus for regulating hydraulic	R. H. Thorpe	523,419	July 24	2149	{ 539 540 }	68	450
Power-applying mechanism	H. F. Parker and M. G. Gillette	529,875	Nov. 27	2392	573	69	1133
Power-converter	E. Carlson	531,408	Dec. 25	2344	559	69	1669
Power distribution and regulation. System of	J. W. Gibboney	524,361	Aug. 14	1727	176	68	811
Power. Electrical transmission of	C. S. Bradley	514,586	Feb. 13	1022	257	66	1063
Power. Electrical transmission of	R. M. Hunter	514,228	Feb. 6	434	105	66	933
Power. Electrical transmission of	C. F. Scott	515,885	Mar. 6	236	56	66	1498
Power. Electrical transmission of	N. Tesla	511,915	Jan. 2	318	75	66	62
Power-press. Adjustable	F. M. Leavitt	518,847	Apr. 24	2436	603	67	488
Power-shears	G. Sears and W. H. Underwood	522,622	July 10	774	196	63	166
Power-storage apparatus	A. G. Page	521,768	June 19	1814	{ 430 431 }	67	1558
Power-transmitter	J. A. Johnson	523,429	July 24	2164	546	62	453
Power-transmitter	L. L. Miller	520,336	May 22	2425	590	67	1031
Power-transmitting apparatus	G. J. Altham	526,887	Oct. 2	360	90, 91	69	67
Power-transmitting device	J. Evans	529,252	Nov. 13	1310	314	69	903

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Power-transmitting device.....	W. Schofield.....	524,354	Aug. 14	681	166	68	802
Power-transmitting mechanism.....	D. C. Frazeur.....	521,108	June 5	636	{ 149 150 }	67	1312
Power-transmitting or driving mechanism.....	C. Pauthonier.....	527,249	Oct. 9	936	227	69	189
Power-wheel.....	A. J. B. Berger.....	528,518	Oct. 30	3119	756	69	633
Power-wheel for endless conveyers or elevators.....	A. Bienkowski.....	519,226	May 1	516	125	67	637
Precious metal. Ornamenting and etching.....	A. J. B. Berger.....	528,357	Oct. 30	2847	690	69	584
Precious metals out of their solutions. Precipitating.....	H. Goodwin.....	517,275	Mar. 27	2583	.....	66	1986
Precious metals. Recovering.....	C. Moldenhauer.....	512,046	Jan. 2	525	.....	66	101
Precious ores. Converting and smelting.....	W. P. Miller.....	514,157	Feb. 6	300	72	66	910
Precious stones. Machine for cutting.....	C. M. Allen.....	519,217	May 1	506	.....	67	635
Precious stones. Tool for grinding or polishing.....	G. Armeny.....	523,504	July 24	2317	583	68	478
Precipitates. Vessel for collecting.....	A. Neydeck.....	523,002	July 17	1424	{ 355 356 }	68	300
Preserving apparatus. Fruit.....	H. N. Fraser.....	512,874	Jan. 16	1943	460	66	395
Preserving articles or structures.....	S. S. Savage.....	531,067	Dec. 18	1719	409	69	1558
Preserving case.....	E. M. Caffall.....	520,819	June 5	113	.....	67	1217
Preserving citrous fruits.....	H. D. Streater.....	518,286	Apr. 17	1467	367	67	301
Preserving food.....	D. A. Walker, Jr.....	524,008	Aug. 7	69	.....	68	675
Preserving food by cold, &c.....	H. Paulsen.....	526,735	Oct. 2	111	.....	69	23
Preserving food compounds.....	F. M. Peck.....	515,789	Mar. 6	101	24	66	1472
Preserving hams, &c. Apparatus for.....	F. Anker.....	521,694	June 19	1673	393	67	1534
Preserving-jar.....	A. H. Hatch.....	522,939	July 10	1308	326	68	263
Preserving vegetables.....	H. A. Robinson.....	520,338	May 22	2455	595	67	1037
Press:	G. Dupont-Dennis.....	517,267	Mar. 27	2573	603	66	1984
See Arbor-press. Jeweler's press.							
Baling-press. Lead-press.							
Brick-press. Perfecting-press.							
Cheese-press. Photographic embossing-press.							
Cider-press. Power-press.							
Cigar-press. Printing-press.							
Copying-press. Proof-press.							
Cotton-press. Rail-bending press.							
Die-press. Roller-press.							
Double-acting press. Screw-press.							
Drill-press. Signature-press.							
Drop-press. Stamping-press.							
Filter-press. Stereotyping-press.							
Frnil or lard press. Toggle-press.							
Glass-press. Veneer-press.							
Gun-carriage recoil-press. Wine-press.							
Hay-press.							
Press.....	V. D. Anderson.....	525,525	Sept. 4	342	84	68	1214
Press.....	V. D. Anderson.....	525,526	Sept. 4	345	85	68	1215
Press.....	J. E. Delarue.....	525,647	Sept. 4	538	131	68	1251
Press.....	E. Jordan.....	512,251	Jan. 2	860	208	66	162
Press.....	M. Swenson.....	530,914	Dec. 11	1450	344	69	1495
Press.....	E. C. Williams.....	523,802	July 31	2837	{ 705 706 }	68	590
Press for finishing molded articles.....	G. W. Laraway and J. E. West.....	526,717	Oct. 2	80	21	69	17
Press for plastic material.....	E. Jordan.....	523,430	July 24	2167	{ 546 547 }	68	453
Press for riveting, &c., metal.....	L. W. Noyes.....	529,565	Nov. 20	1888	449	69	1028
Press for veneers, &c.....	J. J. Hayes.....	516,012	Mar. 6	451	{ 103 104 }	66	1536
Presses. Means for pressure-limiting in.....	W. Simon.....	512,844	Jan. 16	1880	445	66	383
Pressed-steel seat.....	G. H. Wadsworth and H. W. Avery.....	526,273	Sept. 18	1646	388	68	1477
Pressure-accumulator.....	C. C. Worthington.....	524,013	Aug. 7	74	16, 17	68	676
Pressure. Apparatus for indicating and regulating fluid.....	J. H. Gartrell.....	517,451	Apr. 3	66	14	67	15
Pressure brake. Fluid.....	F. Thalmueller, Jr.....	517,901	Apr. 10	794	199	67	167
Pressure brake mechanism. Automatic fluid.....	H. Goels.....	524,759	Aug. 21	1356	{ 330 331 }	68	939
Pressure-gage.....	W. H. Bristol.....	514,255	Feb. 6	487	119	66	944
Pressure-gage.....	H. Rauser, C. Wieber, and A. Sokoloff.....	515,611	Feb. 27	2694	670	66	1405
Pressure-gage. Bourdon.....	W. H. and E. H. Bristol.....	514,256	Feb. 6	488	{ 119 120 }	66	944
Pressure-gage electric alarm.....	W. H. Bradt.....	514,697	Feb. 13	1205	300	66	1099
Pressure gage. Recording steam.....	W. H. Bristol.....	514,257	Feb. 6	489	120	66	945
Pressure-gage register.....	C. M. Bronson.....	512,799	Jan. 16	1802	428	66	368
Pressure-recorder.....	J. Naylor, Jr.....	520,073	May 22	1982	{ 485 486 }	67	949
Pressure-regulator.....	F. V. Matton.....	524,970	Aug. 21	1706	{ 418 419 }	63	1002
Pressure-regulator.....	W. G. Taafel.....	527,902	Oct. 23	2035	488	69	422
Pressure-regulator.....	W. Werlé.....	516,251	Mar. 13	849	198	66	1627
Pressure-regulator and stop-valve. Automatic.....	I. N. Gaskill.....	530,765	Dec. 11	1220	296	69	1452
Pressure regulator. Fluid.....	M. S. Hopkins and C. H. Dickson.....	526,320	Sept. 18	1736	410	68	1496
Pressure regulator. Fluid.....	J. Olson.....	530,200	Dec. 4	216	54	69	1255
Pressure regulator. Fluid.....	C. H. Veeder and E. D. Priest.....	523,873	July 31	2964	738	68	614
Pressure regulator. Fluid.....	G. H. Walker.....	522,683	July 10	869	215	68	183
Pressure regulator. Fluid.....	J. Wilson.....	530,872	Dec. 11	1382	329	69	1482
Primary battery.....	C. W. De Mott.....	530,260	Dec. 4	322	80	69	1274
Primary battery.....	G. H. Gardner.....	530,764	Dec. 11	1219	{ 295 296 }	69	1432
Primary battery.....	C. J. Hubbell.....	515,432	Feb. 27	2419	199	66	1351
Primary battery.....	C. J. Hubbell.....	530,485	Dec. 4	725	178	69	1347
Primary battery.....	W. Walker, Jr., and F. R. Wilkins.....	530,867	Dec. 11	1376	328	69	1481
Primary battery.....	W. Walker, Jr., F. R. Wilkins, and J. Lones.....	524,229	Aug. 7	444	104	68	742
Primary battery and portable electric lamp.....	S. W. Maquay.....	527,436	Oct. 16	1249	307	69	259
Primer. Electrical.....	W. Mason.....	520,116	May 22	2054	502	67	963

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. cr.	Vol.	Page.
Printed matter Method of and apparatus for producing copied effect on	C. E. Adamson	531,294	Dec. 25	2148	514	69	1651
Printed matter. Producing copied effects on	C. E. Adamson	522,133	Oct. 30	2467	597	69	515
Printer. Sign	W. E. Rose	518,118	Apr. 10	1171	293	67	230
Printer's chase	J. W. Osborne	516,106	Mar. 6	597	140	66	1564
Printer's galley	E. Lau	514,757	Feb. 13	1369	326	66	1118
Printers' galleys. Apparatus for securing type or matter in	F. Ross	531,568	Dec. 25	2630	630	69	1744
Printer's make-ready	C. Sears	530,310	Dec. 4	411	103	69	1290
Printer's metal furniture	F. B. Emery	528,660	Nov. 6	250	62	69	691
Printers' plates. Machine for trimming	J. E. Caps	513,031	Jan. 16	2190	523	66	439
Printer's quoin	O. A. Amundson	528,756	Nov. 6	411	99	69	721
Printer's quoin	D. C. Breed	522,504	July 3	558	142	68	110
Printer's quoin	J. F. Perry	530,124	Dec. 4	86	23	69	1231
Printer's quoin	C. Reitter	531,332	Dec. 25	2216	530	69	1664
Printer's quoin	R. Warg and A. Lindemann	527,638	Oct. 16	1582	382	69	322
Printing and dividing endless lengths of paper. Machine for	C. E. Preusse	520,010	May 15	1865	456	67	913
Printing attachment. Bicycle	E. Redmond	520,803	June 5	80	18	67	1212
Printing-block	F. I. Getty	523,307	July 17	1958	493	68	399
Printing-block	F. I. Getty	523,310	July 17	1968	495	68	401
Printing block. Chromatic	F. I. Getty	523,308	July 17	1962	494	68	400
Printing carpet-yarn. Apparatus for	W. Shaw	514,222	Feb. 6	528	130	66	953
Printing device. Chromatic	F. I. Getty	523,309	July 17	1964	494	68	400
Printing device. Chromatic	T. J. Tinley	530,865	Dec. 11	1373	327	69	1480
Printing device. Hand	C. M. Fowler and W. Whitney	530,304	Dec. 4	401	101	69	1288
Printing device. Hand	R. H. Smith and W. F. Tripp	518,515	Apr. 17	1872	464	67	374
Printing from stencils. Machine for	T. H. Stackhouse	513,212	Jan. 23	2460	594	66	562
Printing indigo	A. Blanchon and A. Allegret	522,042	June 26	2304	301	67	1667
Printing letters or other indications for indexes of books, &c. Apparatus for use in	E. A. Goddin	522,890	July 10	1209	301	68	244
Printing-machine	T. Bartholomew	531,088	Dec. 18	1763	420	69	1566
Printing-machine	L. C. Crowell	512,606	Jan. 9	1448	350	66	285
Printing-machine	C. P. Cottrell	517,622	Apr. 3	451	109	67	87
Printing-machine	C. P. Cottrell	517,973	Apr. 10	920	230	67	188
Printing-machine	J. L. Firm	529,680	Nov. 20	2061	493	69	1061
Printing-machine	C. A. Teal	524,031	Aug. 7	106	22, 23	68	681
Printing-machine	M. Vierengel	528,830	Nov. 6	557	133	69	748
Printing-machine	H. A. W. Wood	516,386	Mar. 13	1074	255	66	1667
Printing-machine	M. Wright	522,502	July 3	554	141	68	110
Printing-machine. Bed and cylinder	J. Brooks	529,850	Nov. 27	2357	562	69	1125
Printing-machine. Bed and cylinder	W. Scott	530,357	Dec. 4	495	122	69	1305
Printing-machine. Cylinder	J. Brooks	527,941	Oct. 23	2108	506	69	435
Printing-machine. Cylinder	J. Brooks	529,702	Nov. 27	2103	504	69	1079
Printing-machine. Cylinder	C. Potter, Jr.	527,880	Oct. 23	1998	479	69	414
Printing-machine feeder	G. R. Clarke	530,089	Dec. 4	22	6, 7	69	1219
Printing-machine for copper or steel plates	J. Lariviere	519,915	May 15	1708	417	67	885
Printing machine. Multicolor	J. L. Davies	515,821	Mar. 6	148	36	66	1480
Printing machine. Multiple-color	W. H. R. Toye	522,128	June 26	2439	587	67	1692
Printing-machine offset mechanism	E. H. Cottrell	527,774	Oct. 23	1803	435	69	380
Printing-machine offset mechanism	E. H. Cottrell	527,775	Oct. 23	1805	435	69	380
Printing machine. Oil-cloth	W. H. Schoenberg	518,120	Apr. 10	1173	294	67	230
Printing machine. Plate	E. S. Bradford	518,134	Apr. 10	1191	298	67	233
Printing-machine. Platen	F. Harrild and J. F. Buckland	517,040	Mar. 27	2185	517	66	1906
Printing-machine. Platen	J. Winterton	513,357	Jan. 23	2699	655	66	609
Printing-machine printing-plates. Registering attachment for	W. H. R. Toye	522,129	June 26	2442	587	67	1693
Printing-machine. Rotary	J. Michaud	528,233	Oct. 30	2639	636	69	546
Printing-machine. Rotating letter-press	F. X. Hölzle	519,956	May 15	1774	434	67	897
Printing machine. Stencil	W. G. Fuerth	521,464	June 19	1282	299	67	1462
Printing machine. Ticket	W. B. Gray and D. F. Bowen	521,438	June 12	1919	288	67	1433
Printing-machine. Traveling-cylinder	C. Butterfield	516,913	Mar. 20	1958	461	66	1850
Printing machine. Wall-paper	W. H. Waldron	531,075	Dec. 18	1734	413	69	1560
Printing machine. Wall-paper	W. H. Waldron	531,076	Dec. 18	1736	414	69	1561
Printing-machine. Web-perfecting platen	F. Meisel and H. L. Chapin	514,563	Feb. 13	977	415	66	1055
Printing-machines. Apparatus for cleaning the forms of rotary	E. H. Cottrell	511,934	Jan. 2	353	82	66	67
Printing machines. Stretching apparatus for calico block	W. Westwell	530,373	Dec. 4	523	130	69	1310

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Printing on glass, &c. Apparatus for	A. Brookman	526,557	Sept. 25	2153	515	68	1584
Printing on glass. Machine for	J. Budd	516,799	Mar. 20	1764	416	66	1812
Printing plate and base	A. G. Wade	530,371	Dec. 4	521	129	69	1310
Printing-plate holder	E. T. Wheed	516,672	Mar. 20	1565	372	66	1777
Printing-plates. Manufacture of	R. J. Sachers	518,826	Apr. 24	2409	596	67	483
Printing-plates. Preparing aluminium	O. C. Strecker	516,238	Mar. 13	826	.....	66	1622
Printing-plates. Preparing surface	J. Mullaly	522,719	July 10	931	.....	68	194
Printing-press	P. Brady	513,555	Jan. 30	3052	752	66	710
Printing-press	R. Clark and L. M. Cron	530,505	Dec. 11	762	187	69	1371
Printing-press	J. L. Cox	525,137	Aug. 28	2032	497	68	1077
Printing-press	W. H. Golding	529,489	Nov. 20	1753	{ 416 417 132 133 }	69	1004
Printing-press	W. B. Lawrence. (Reissne)	11,434	Aug. 7	557	{ 417 133 }	68	761
Printing-press	D. Manver	526,248	Sept. 18	1609	377	68	1469
Printing-press	J. J. Pederson	513,136	Jan. 23	2349	{ 566 567 }	66	541
Printing-press	W. C. Wendt6	530,812	Dec. 11	1287	312	69	1466
Printing-press color attachment	G. L. Lawrence	523,358	July 24	2049	515	68	432
Printing-press counting attachment	H. La Fountain	521,318	June 12	1005	236	67	1393
Printing-press delivery apparatus	S. G. Goss	513,678	Jan. 30	3259	{ 800 801 }	66	747
Printing-press delivery apparatus	S. G. Goss	518,241	Apr. 17	1393	349	67	287
Printing-press delivery apparatus	S. G. Goss	518,242	Apr. 17	1395	{ 349 350 753 754 755 }	67	288
Printing press. Embossed	J. Y. Johnston and B. F. Bergh	523,914	July 31	3032	{ 754 755 }	68	626
Printing-press inking apparatus	R. Miehle	527,391	Oct. 9	1173	287	69	233
Printing-press inking apparatus	W. C. Wendt6	520,345	May 22	2467	598	67	1039
Printing-press inking apparatus	W. C. Wendt6	520,346	May 22	2469	{ 598 599 }	67	1039
Printing press. Multicolor	W. C. Wendt6	517,907	Apr. 10	803	202	67	169
Printing press. Multicolor	W. C. Wendt6	517,908	Apr. 10	806	{ 202 203 }	67	169
Printing press. Multicolor	W. C. Wendt6	519,461	May 8	941	228	67	732
Printing press. Multicolor	W. C. Wendt6	519,462	May 8	943	228	67	732
Printing-press paper-dampening device	E. P. Allhe	514,637	Feb. 13	1109	276	66	1080
Printing-press perforating attachment	C. L. Smith	516,317	Mar. 13	945	222	66	1646
Printing-press. Platen	W. H. Price, Jr.	523,006	July 17	1430	{ 357 358 216 217 }	68	301
Printing-press. Rotary	J. P. Luhn	521,268	June 12	914	{ 216 217 483 484 }	67	1376
Printing-press. Rotary	J. Michaud	520,069	May 22	1975	{ 483 484 470 451 }	67	918
Printing-press. Rubber-type	J. H. Barr	516,885	Mar. 20	1908	{ 470 451 430 431 432 }	66	1841
Printing press. Single-acting sheet	J. L. Cox	529,519	Nov. 20	1808	{ 431 432 }	69	1014
Printing-press web-supporting device	C. Potter	527,878	Oct. 23	1994	478	69	413
Printing-press web-supporting device	C. Potter	527,879	Oct. 23	1996	479	69	413
Printing-presses. Adjustable roll for	P. Splithoff	516,127	Mar. 6	629	147	66	1570
Printing-presses. Device for operating reciprocating beds of	E. A. Blake	513,554	Jan. 30	3050	751	66	710
Printing-presses. Disk-cover for job	C. E. Adamson	531,293	Dec. 25	2147	514	69	1651
Printing-presses. Perforating mechanism for cylinder.	E. Kellner	518,505	Apr. 17	1854	460	67	371
Printing-presses. Two-color attachment for	C. E. Adamson	528,060	Oct. 23	2325	561	69	474
Printing sheets. Perfecting-press for	W. C. Wendt6	530,813	Dec. 11	1288	312	69	1466
Printing solid ground colors on wall-paper and making same. Roller for	J. Paravicini	513,822	Jan. 30	3480	857	66	729
Printing-surface and making same	A. Ten Winkel	522,567	July 3	669	170	68	130
Printing-surfaces. Producing	A. Ten Winkel	522,566	July 3	666	169	68	130
Printing wads on both sides. Machine for	C. R. Richards	524,610	Aug. 14	1095	{ 270 271 272 273 }	68	879
Printing wall-paper. Machine for	C. F. W. Lehmann	518,324	Apr. 17	1531	381	67	312
Program-holder. School	E. E. Douglass	516,301	Mar. 13	924	216	66	1642
Projectile	F. M. Ashley	517,560	Apr. 3	238	55	67	47
Projectiles and apparatus therefor. Hardening	H. A. Brustlein	519,232	May 1	596	127	67	639
Projectiles. Means for measuring the penetrative force of	H. Brunswig	523,510	July 24	2325	585	68	480
Proof-press. Printer's	F. Wesel	512,780	Jan. 16	1774	421	66	363
Propeller	A. W. Case. (Reissue)	11,399	Jan. 23	2290	712	66	645
Propeller	O. B. Genty	520,563	May 29	2826	682	67	1122
Propeller	J. B. Jones	529,916	Nov. 27	2460	593	69	1144
Propeller	D. H. Welch and J. L. Lovell	524,624	Aug. 14	1131	278	68	886
Propeller. Boat	F. P. McElfresh	518,072	Apr. 10	1094	276	67	216
Propeller. Buoyant screw	A. W. Getchell	512,186	Jan. 2	760	185	66	145
Propeller for boats. Oar	H. Hurlburt	518,605	Apr. 24	2020	502	67	415
Propeller for boats. Wave-power	S. S. Smith	529,882	Nov. 27	2404	{ 575 576 316 317 }	69	1134
Propeller for vessels. Reciprocating	W. K. Hogan	516,535	Mar. 13	1328	{ 316 317 }	66	1716
Propeller. Marine	A. H. Carpenter	516,261	Mar. 13	865	201	66	1630
Propeller. Paddle	A. Beers	518,830	Apr. 24	2415	{ 597 598 }	67	484
Propeller. Pneumatic	L. H. Mayer	520,004	May 15	1856	454	67	911
Propeller-rail. Canal-boat	A. E. Schatz	511,911	Jan. 2	313	73	66	60
Propeller. Screw	A. W. Case	517,025	Mar. 27	2158	511	66	1904
Propeller. Screw	A. W. Case	527,045	Oct. 9	615	149	69	130
Propeller. Screw	S. G. Hudes	524,506	Aug. 14	920	227	68	847

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Propeller. Screw.....	W. H. Jay.....	528,253	Oct. 30	2671	643	69	552
Propeller. Screw.....	M. O. Miltzaff.....	515,479	Feb. 27	2484	614	66	1363
Propeller. Screw.....	J. D. Muller.....	525,664	Sept. 4	578	138	68	1257
Propeller. Screw.....	F. Otte.....	517,233	Mar. 27	2517	591	65	1973
Propeller-shaft bearing.....	A. J. Beaudette.....	530,991	May 22	2372	576	67	1021
Propeller-shaft for vessels. Outboard.....	C. H. Schultz, Jr.....	536,751	Oct. 2	137	32, 33	69	27
Propeller. Steering.....	S. Seabury.....	511,806	Jan. 2	92	23, 24	66	21
Propeller. Vessel.....	S. S. Whipps.....	528,265	Oct. 30	2687	648	69	556
Propeller-wheel.....	M. Schmaltz.....	512,751	Jan. 16	1706	407	66	349
Propeller-wheel.....	C. Sintz.....	512,627	Jan. 9	1481	357	66	291
Propellers. Construction of couplings for screw.....	J. Verity.....	527,632	Oct. 16	1571	379		
Propelling apparatus.....	B. Bernstein.....	511,990	Jan. 2	437	103	66	83
Propelling apparatus.....	B. Bernstein.....	528,138	Oct. 30	2474	598	69	516
Propelling apparatus. Boat or vessel.....	H. Barcroft.....	515,642	Feb. 27	2740	682	66	1414
Propelling boats. Foot-power for.....	G. Bold and J. E. Oldham.....	514,640	Feb. 13	1111	277		
Propelling boats. Means for.....	P. Higgins.....	527,605	Oct. 16	1527	370	69	311
Propelling boats. Means for.....	H. W. Hocft.....	515,682	Feb. 27	2812	701	66	1428
Propelling canal-boats. Electrical means for.....	J. Sachs.....	513,466	Jan. 23	2882	709	66	644
Propelling canal-boats. Means for.....	B. C. Scott.....	518,680	Apr. 24	2151	538	67	443
Propelling device.....	B. Bernstein.....	511,989	Jan. 2	435	102	66	83
Propelling device. Boat.....	J. F. Bliss.....	511,748	Jan. 2	15	3	66	6
Propelling mechanism. Boat.....	A. H. Bacon.....	524,629	Aug. 14	1138	280	68	888
Propelling mechanism. Boat.....	C. P. Dieco.....	521,405	June 12	1158	274	67	1322
Propelling mechanism for canal-boats.....	H. W. Hildebrand.....	521,146	June 5	696	163	67	1428
Propelling mechanism for carousels, &c.....	C. Braaf.....	523,879	July 31	2975	740	68	616
Propelling mechanism. Vessel.....	A. Thomas.....	516,747	Mar. 20	1698	402	66	1800
Propelling vessels. Hydraulic method of.....	J. Widmer.....	525,881	Sept. 11	995	224	68	1345
Propulsion. Marine.....	J. S. Martin.....	527,798	Oct. 23	1850	444	69	388
Propulsion of vessels. Hydraulic.....	J. C. Walker.....	512,591	Jan. 9	1429	344	66	281
Propulsion of vessels. Means for the.....	W. H. Witte.....	516,419	Mar. 13	1124	267	66	1678
Protector:					268		
See Hub-protector. Tree-protector.							
Neck-protector. Watch-protector.							
Pantaloons-protector.							
Protractor.....	C. H. Chunn.....	526,023	Sept. 18	1219	281	68	1398
Protractor.....	J. B. Riddle.....	513,828	Jan. 30	3494	860	66	792
Protractor and bevel.....	T. J. Lumis.....	528,729	Nov. 6	357	87	69	711
Pruning implement.....	J. L. Joyce.....	517,385	Mar. 27	2804	654	66	2029
Pruning implement.....	T. E. B. Mason.....	518,649	Apr. 24	2096	523	67	428
Pruning-knife.....	L. C. and B. Bosley.....	531,358	Dec. 25	2268	540	69	1674
Pruning-shears.....	A. Effinger and W. H. Metzger.....	530,221	Dec. 4	257	63	69	1262
Pruning-tool.....	G. Klinefetter and J. W. Nash.....	527,116	Oct. 9	719	176	69	148
Pug-mill mixer.....	D. L. Keeler.....	513,018	Jan. 16	2176	518	66	437
Puller:							
See Cork-puller. Stopper-puller.							
Flax-puller. Stump-puller.							
Spike-puller. Well-pipe puller.							
Pulley.....	P. Conyngham and W. R. Gibbons.....	519,493	May 8	1002	242	67	741
Pulley.....	F. Girr.....	529,628	Nov. 13	917	218	69	853
Pulley.....	O. W. Ketchum.....	527,065	Oct. 9	640	155	69	135
Pulley.....	M. B. Lora.....	530,282	Dec. 4	368	90, 91	69	1282
Pulley.....	S. H. St. John.....	516,688	Mar. 20	1590	379	66	1781
Pulley and building same. Wood.....	H. J. Gilbert.....	527,965	Oct. 23	2158	519	69	444
					520		
Pulley-block.....	A. W. Browne.....	519,984	May 15	1823	447	67	906
Pulley-block.....	H. V. Hartz.....	527,425	Oct. 16	1228	302	69	256
Pulley-block.....	W. Loudon.....	524,177	Aug. 7	357	84	68	726
Pulley-block.....	O. M. Movat.....	522,078	June 26	2361	568	67	1679
Pulley-block.....	J. L. Pope.....	512,990	Jan. 16	2130	506	66	429
					507		
Pulley-blocks. Automatic brake for.....	J. W. Powell.....	528,646	Nov. 6	229	57	69	627
Pulley-blocks. Convertible bearing for screw.....	H. R. Towne.....	512,071	Jan. 2	571	135	66	109
Pulley. Clutch.....	H. Bunker.....	521,281	June 12	935	221	67	1379
Pulley-clutch and shaft-coupling. Automatic.....	L. W. Elliott.....	530,301	Dec. 4	396	100	69	1287
Pulley. Differential.....	E. D. Gleason.....	514,888	Feb. 13	1520	380	66	1158
					381		
Pulley. Differential.....	L. Kleritj.....	516,098	Mar. 6	584	137	66	1562
Pulley. Expanding.....	A. Given and C. B. Smith.....	516,197	Mar. 13	758	177	66	1610
Pulley. Expansible.....	B. B. Farnham.....	522,658	July 10	824	206	68	175
Pulley. Expansible differential.....	W. Roney.....	517,532	Apr. 3	188	43	67	38
Pulley. Friction-clutch.....	T. E. Kirkbride and C. E. Ouram.....	521,240	June 12	863	203	67	1367
Pulley. Friction-clutch.....	J. McCahey.....	522,531	July 3	604	155	68	119
Pulley. Friction-clutch.....	W. W. Wallace.....	516,882	Mar. 20	1902	449	66	1840
Pulley. Grip.....	A. E. Brown.....	524,478	Aug. 14	887	219	68	841
Pulley. Guide.....	G. H. Geyer.....	525,319	Aug. 28	2330	564	68	1132
Pulley-lines. Rope-clamp for.....	T. Bevan.....	518,132	Apr. 10	1188	298	67	233
Pulley. Sash.....	W. R. Fox.....	529,256	Nov. 13	1318	317	69	905
Pulley. Separable.....	A. C. Hodge.....	519,331	May 8	717	177	67	690
Pulley. Sheave.....	F. Günther.....	522,466	July 3	504	128	68	100
Pulley. Split.....	L. S. Bache.....	513,359	Jan. 23	2703	657	66	610
Pulley. Split.....	J. F. W. Fawcett.....	528,662	Nov. 6	256	63	69	692
Pulley. Split.....	H. F. Kuhlmann.....	513,118	Jan. 23	2322	559	66	536
Pulley. Split.....	W. R. Patten.....	531,216	Dec. 18	2007	476	69	1610
Pulley-turning machine.....	A. Wood.....	521,353	June 12	1079	253	67	1408
Pulleys. Compound for covering belt.....	A. L. and W. J. Huston.....	520,992	June 5	432	103	67	1275
Pulleys, shafts, &c. Slip-collar for.....	C. W. Skartle.....	521,055	June 5	541	127	67	1295
Pulp, &c. Apparatus for pressing or stamping articles from wood.....	E. Saltzkorn and L. Nicolai.....	529,753	Nov. 27	2186	521	69	1092
Pulp burial-casket and making same.....	G. E. Shaw.....	528,612	Nov. 6	152	37	69	674
Pulp-compression apparatus.....	G. E. Shaw.....	528,613	Nov. 6	155	38	69	674
Pulp-compressing machine.....	F. B. Howard.....	513,017	Jan. 16	2174	518	66	436

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Pulp couching and drying machine	H. Fairbanks and H. Parker	522,589	July 10	711	182	68	155
Pulp-digesters. Blow-off pipe for	C. Curtis and N. M. Jones	513,892	Jan. 30	3598	826	66	813
Pulp-engine	L. A. Thomas	521,300	June 12	976	231	67	1387
Pulp-engine roll-bar	J. H. Horne	520,960	June 5	377	92	67	1266
Pulp from liquids. Machine for separating	G. Seiler and F. Emig	514,780	Feb. 13	1345	336	66	1124
Pulp-grinding machine	A. Karger	525,846	Sept. 11	932	208	68	1333
Pulp. Machine for molding spools or similar forms from	E. Hubbard	517,924	Apr. 10	832	209		
Pulp. Manufacture of wood	E. Nolon	530,898	Dec. 11	1426		69	1490
Pulp. Method of and apparatus for producing wood	C. W. Roberts	527,812	Oct. 23	1867	449	69	391
Pulp or paper mills. Suction-roll for	H. Niesan	516,507	Mar. 13	1282	305	66	1707
Pulp. Press for making spools from fibrous	E. Hubbard	524,680	Aug. 14	1216	297	68	901
Pulp-screen	J. J. Flanders	522,463	July 3	498	127	68	99
Pulp-screen	E. M. Hall and F. Pearse	521,409	June 12	1164	276		
Pulp-screen cleaning attachment	E. A. Richardson	529,193	Nov. 13	1204	291	69	884
Pulp separator. Wood	E. F. Millard	522,997	July 17	1418	354	68	299
Pulp-stock-grinding machine	F. Hickman	529,907	Nov. 27	2443	566	69	1141
Pulp-strainer	W. N. Cornell and J. W. McCulloch	513,454	Jan. 23	2864	703		
Pulping and grinding machine	G. Hibbert	520,680	May 29	3030	733	67	1159
Pulverizer	A. Fiscus	517,138	Mar. 27	2356	556	66	1942
Pulverizer	T. Parker	529,874	Nov. 27	2390	572	69	1132
Pulverizer and harrow	A. D. Powers	522,489	July 3	533	136	68	106
Pulverizer and planter. Combined	E. Showell	520,454	May 29	2640	638	67	1088
Pulverizer. Land	H. C. Brookens	518,363	Apr. 17	1620	399	67	329
Pulverizer. Manure	J. F. Haygood and J. H. Roach	519,629	May 8	1253	301	67	786
Pulverizing and amalgamating apparatus	A. Tornaghi	515,453	Feb. 27	2445	606	66	1356
Pulverizing apparatus	J. M. Schutz	522,945	July 10	1319	328	68	266
Pulverizing-machine	W. M. Fuller	517,381	Mar. 27	2759	649		
Pulverizing-machine	J. H. Traver	512,635	Jan. 9	1492	360	66	294
Pulverizing-mill	J. K. and E. C. Griffin	515,671	Feb. 27	2789	695	66	1424
Pulverizing-mill	F. J. Judd	522,377	July 3	346	89	68	69
Pulverizing-mill roll	E. C. Griffin	520,958	June 5	374	91	67	1265
Pulverizing-mill. Roller	E. H. Hurry	524,089	Aug. 7	203	46	68	698
Pulverizing rock. Machine for	P. McKellar	526,788	Oct. 2	199	47	69	38
Pump	T. W. Bleach	512,534	Jan. 9	1341	323	66	265
Pump	C. H. Chandler	523,657	July 31	2563	642	68	512
Pump	S. M. Chase	526,070	Sept. 18	1303	302	68	1413
Pump	W. H. Feters	519,081	May 1	244	57	67	523
Pump	H. Field	513,966	Jan. 30	3707	913	66	835
Pump	E. E. Frizell	531,175	Dec. 18	1928	459	69	1596
Pump	C. E. Funk	513,315	Jan. 23	2633	639	66	597
Pump	C. E. Funk	513,316	Jan. 23	2636	639	66	597
Pump	W. R. George	531,111	Dec. 18	1807	429	69	1574
Pump	A. E. Goodspeed and J. Edson	512,611	Jan. 9	1456	352	66	286
Pump	A. F. Hall	531,528	Dec. 25	2562	613	69	1731
Pump	M. W. Hall	523,161	Oct. 30	2504	605	69	522
Pump	F. E. Herdman	530,618	Dec. 11	969	237		
Pump	J. F. Hess	514,991	Feb. 20	1671	419	66	1201
Pump	H. Jones	523,436	Oct. 30	2951	721	69	607
Pump	J. S. Losch	516,162	Mar. 6	688	162	66	1582
Pump	E. M. McGee	528,378	Oct. 30	2880	698	69	589
Pump	H. Mortensen	525,714	Sept. 11	686	159	68	1289
Pump	J. F. Palmer	524,184	Aug. 7	366	87	68	728
Pump	T. Parker	523,173	July 17	1735	434	68	358
Pump	V. S. Reed and D. Apgar	525,998	Sept. 11	1177	268	68	1378
Pump	J. Rieppel	514,336	Feb. 6	618	157	66	969
Pump	C. Rumley	526,944	Oct. 2	456	112		
Pump	C. A. Sellon	522,857	July 10	1166	291	68	236
Pump	D. F. and H. Selzer	518,356	Apr. 17	1601	396	67	326
Pump	A. W. Shidler and W. P. Hendrickson	529,966	Nov. 27	2552	615	69	1160
Pump	J. C. and E. A. Tom	517,902	Apr. 10	795	200	67	167
Pump	C. C. Worthington	523,282	Oct. 30	2720	656	69	561
Pump. Air	R. C. Barbour	523,175	Sept. 18	1480	346		
Pump. Air	F. Black	514,900	Feb. 20	1542	386	66	1177
Pump. Air	J. Dickens	511,590	Feb. 13	1032	259	66	1064
Pump. Air	A. Heller	530,106	Dec. 4	52	14, 15	69	1225
Pump. Air	E. Savill	513,535	Jan. 30	3018	745	66	704
Pump. Air	A. Wolf and T. R. Hyde, Jr.	518,302	Apr. 17	1489	372	67	305
Pump. Air-compressor beer	J. Braun	515,740	Mar. 6	7	2, 3	66	1456
Pump and faucet. Beer	R. N. Lowe and F. C. Gnyser	511,962	Jan. 2	395	92	66	75
Pump and motor therefor	A. T. Welch	519,825	May 15	1566	383	67	858
Pump attachment	J. W. Clark	531,508	Dec. 25	2528	604		
Pump attachment	A. Menser	530,193	Dec. 4	205	50, 51	69	1252
Pump attachment for windmills	C. F. West	512,595	Jan. 9	1437	346	66	282
Pump. Automatic hydraulic	T. A. Walther	523,731	Sept. 11	717	166	68	1295
Pump belt-shifting device. Air	C. W. Nason	529,404	Nov. 20	1589	378	69	973
Pump. Centrifugal	H. A. Barber	526,339	Sept. 18	1761	418	68	1501
Pump. Centrifugal	G. W. Price	517,529	Apr. 3	182	41	67	37
Pump. Centrifugal	M. Wagner	531,074	Dec. 18	1733	413	69	1560
Pump. Combined steam and power	G. de Laval	528,783	Nov. 6	464	114	69	731
Pump. Compression or exhaust	H. A. Flenns	517,337	Mar. 27	2687	631	66	2007
Pump. Compressor	J. C. Ruby and M. E. Frey	512,664	Jan. 9	1547	372	66	305
Pump. Deep-well	C. A. Kelley	515,475	Feb. 27	2480	613	66	1362

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Pump. Deep-well	D. B. Stevenson	529,209	Nov. 13	1234	297	69	889
Pump. Direct-acting steam	F. A. Burnham	519,857	May 15	1621	{ 394 395	{ 67	868
Pump. Double-acting	F. J. Brown, A. and S. Allen	530,922	Dec. 18	1470	348	69	1514
Pump. Double-acting	C. Rodenbaugh	523,240	July 17	1845	{ 464 465	{ 68	378
Pump. Double-acting	H. C. Stouffer	516,411	Mar. 13	1113	264	66	1676
Pump. Ejector	W. B. Nevill	513,412	Jan. 23	2784	{ 680 681	{ 66	625
Pump. Electric	F. W. Merritt and A. R. Roe	524,044	Aug. 7	123	27	68	655
Pump. Electrically-operating	C. Robinson	516,840	Mar. 20	1837	434	66	1827
Pump. Electromagnetic reciprocating	C. J. Van Depoele	523,622	July 31	2869	713	68	507
Pump. Fluid	J. Liming	512,978	Jan. 16	2115	502	66	425
Pump. Foot	C. L. Bardick	522,726	July 10	953	237	68	197
Pump for compressing air or gases	G. E. Belliss and A. Moreom	519,225	May 1	514	125	67	637
Pump for drilled wells	D. Lippy	521,720	June 19	1718	405	67	1543
Pump for forcing beer. Air	J. L. Steitz	516,410	Mar. 13	1109	264	66	1675
Pump for water systems	E. Neff	512,727	Jan. 16	1664	{ 399 400	{ 66	342
Pump. Force	H. Bender	524,237	Aug. 7	454	106	68	744
Pump. Force	J. H. Stoll	516,318	Mar. 13	946	222	66	1646
Pump. Force	J. W. Thompson	526,759	Oct. 2	154	37	69	30
Pump. Force	J. K. Van Pelt	529,432	Nov. 20	1648	{ 392 393	{ 69	926
Pump. Gas-compressing	T. Farnsworth	530,097	Dec. 4	35	9.10	69	1221
Pump governor. Air	J. T. Hayden	513,106	Jan. 23	2291	554	66	529
Pump governor. Feed	J. Thomas	519,360	May 8	780	191	67	702
Pump governor. Steam	J. R. Nixon	523,423	Oct. 30	3067	743	69	623
Pump. Hand	J. Clark	519,444	May 8	914	220	67	727
Pump. Hydraulic air	E. H. Weatherhead	512,419	Jan. 9	1148	279	66	223
Pump. Hydraulic air	E. H. Weatherhead	512,776	Jan. 16	1770	420	66	362
Pump. Hydraulic air	E. H. Weatherhead	513,254	Jan. 23	2545	{ 612 613	{ 66	580
Pump. Hydraulic air	E. H. Weatherhead	514,608	Feb. 13	1062	{ 265 266	{ 66	1070
Pump. Hydraulic air	E. H. Weatherhead	515,183	Feb. 20	1979	494	66	1257
Pump. Hydraulic air	E. H. Weatherhead	520,466	May 29	2662	644	67	1091
Pump. Hydraulic air	E. H. Weatherhead	526,762	Oct. 2	158	37	69	30
Pump. Irrigating	M. and J. N. McCay	527,707	Oct. 16	1691	407	69	342
Pump. Lift	J. Wock	518,981	May 1	75	19	67	549
Pump. Measuring	T. G. McConnell	512,587	Jan. 9	1421	343	66	280
Pump-motor	L. H. Lloyd	519,608	May 8	1209	291	67	779
Pump-motor	B. Mellor of Mark	530,848	Dec. 11	1345	322	69	1475
Pump-motor. Electric	J. F. Blake	520,722	May 29	3096	749	67	1171
Pump. Oil	R. O. Graham	527,421	Oct. 16	1223	300	69	255
Pump. Oil	R. O. Graham	527,422	Oct. 16	1224	300	69	255
Pump. Oil-can	H. F. and R. H. Roberts	512,220	Jan. 2	814	197	66	154
Pump. Oil-well	A. Rosenkranz	530,350	Dec. 4	487	120	69	1303
Pump. Oil-well	S. C. Turner	525,728	Sept. 11	711	164	68	1294
Pump. Oscillating	A. Geiger	526,127	Sept. 18	1398	325	68	1430
Pump-pipes. Vent attachment for	L. Adams	518,934	May 1	1	1	67	537
Pump. Plumber's suction and force	J. H. Lawless	525,556	Sept. 4	401	97	68	1226
Pump. Portable barrel	M. B. Brooks	523,757	July 31	2758	685	68	575
Pump-regulator	W. B. Mason	523,900	July 31	3005	748	68	622
Pump-regulator	J. Rothchild	518,927	Apr. 24	2577	637	67	516
Pump regulator. Hydraulic steam	T. J. Davis	521,365	June 12	1096	{ 257 258	{ 67	1411
Pump-rods. Brace and guide for windmill	A. S. Tragethon	519,514	May 8	1032	250	67	747
Pump-rods. Grip for polished	M. Turton	520,716	May 29	3029	748	67	1170
Pump. Rotary	V. Bries	514,060	Feb. 6	131	31	66	878
Pump. Rotary	S. N. Eisler	513,901	Jan. 30	3609	889	66	815
Pump. Rotary	S. N. Eisler	522,518	July 3	566	150	68	115
Pump. Rotary	C. Rumley	516,406	Mar. 13	1104	263	66	1674
Pump. Rotary	E. F. Smith	527,082	Oct. 9	662	162	69	139
Pump. Rotary force	S. C. Shepard	528,347	Oct. 30	2225	683	69	570
Pump. Saliva	A. R. Lawshe	522,842	July 10	1150	285	68	232
Pump. Screw	W. E. Quimby	529,837	Nov. 27	2333	{ 554 555	{ 69	1121
Pump. Sinking	J. Renshaw	512,091	Jan. 16	2131	507	66	429
Pump-spout strainer	G. Gauntz	514,924	Feb. 20	1576	396	66	1183
Pump. Spraying	C. H. James	527,794	Oct. 23	1845	443	69	387
Pump. Steam	E. C. Johnson	519,065	May 1	215	50.51	67	577
Pump. Steam vacuum	L. Hussey	526,652	Sept. 25	2307	552	68	1613
Pump. Steam vacuum	G. H. Zschech and W. H. Sunbling	526,067	Sept. 18	1297	{ 300 301	{ 68	1412
Pump. Vacuum	R. P. Ashwell and J. A. Vandegrift	512,788	Jan. 16	1784	424	66	365
Pump. Vacuum	E. D. Chaplin	521,432	June 12	1203	{ 285 286	{ 67	1430
Pump-valve	T. S. La Franco	526,975	Oct. 2	499	132	69	93
Pump-valve	T. C. Munger	530,442	Dec. 4	630	157	69	1330
Pump-valve	C. Zies	520,349	May 22	2473	600	67	1040
Pump valve-gear	C. C. Worthington	526,429	Sept. 25	1955	{ 466 467	{ 68	1548
Pump valve. Steam	J. Farley	526,149	Sept. 18	1439	{ 336 337	{ 68	1438
Pump-valve. Steam-actuated	J. T. Hayden	519,843	May 15	1594	390	67	864
Pumps. Means for operating	J. V. Hogan and D. McGrath	525,148	Aug. 28	2052	501	68	1080
Pumps, &c. Power mechanism for	J. Wagner	525,373	Sept. 4	99	25	68	1168
Pumps. Puppet-valve for pistons of air or gas	W. F. Garrison	525,541	Sept. 4	321	93	68	1221
Pumping	M. E. B. Du Marais	530,754	Dec. 11	1201	...	69	1448
Pumping and compressing air. Apparatus for	C. W. and B. A. Buerkle, Jr.	514,880	Feb. 13	1504	377	66	1155
Pumping apparatus	W. B. Nevill	517,229	Mar. 27	2511	590	66	1972
Pumping apparatus for gas, air, water, &c	G. P. Schneider	521,675	June 19	1640	384	67	1527

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Pumping apparatus for sprinkling systems	B. L. Stowe	528,822	Nov. 6	545	130	69	745
Pumping apparatus. Portable	D. Noble	517,821	Apr. 10	758	189	67	161
Pumping apparatus. Portable	D. Noble	519,871	May 15	1644	400	67	873
Pumping-engine	E. E. Clark	512,010	Jan. 2	468	{ 111 112 }	{ 66 66 }	90
Pumping-engine	J. Cochrane and W. Walker	529,678	Nov. 20	2058	493	69	1061
Pumping-engine	A. F. Hall and B. O. Gage	522,938	July 10	1306	{ 325 326 }	{ 68 68 }	263
Pumping-engine	G. B. Whiting and F. M. Wheeler	526,913	Oct. 2	414	102	69	77
Pumping-engine. Direct-acting	G. de Laval	520,237	May 22	2282	555	67	1003
Pumping-engine governor	T. Shaw	515,371	Feb. 27	2314	574	66	1332
Pumping fluids. Suction and force apparatus for	W. M. Morgan	514,659	Feb. 13	1140	284	66	1086
Pumping liquids from gas-producing wells. Means for	J. S. Klein	531,537	Dec. 25	2577	616	69	1733
Pumping machinery	M. Foster	517,449	Apr. 3	63	13.14	67	14
Pumping mechanism for oil-wells, &c.	H. W. Pickett	529,804	Nov. 27	2267	541	69	1107
Pumping oil-wells. Electric device for	H. F. Waite	516,713	Mar. 20	1630	383	66	1788
Punch	W. Hill	520,900	June 5	420	103	67	1275
Punch	W. J. Plecker	518,766	Apr. 24	2310	574	67	466
Punch and fare-register	J. M. Black	517,944	Apr. 10	861	217	67	179
Punch and process of and means for making same. Die	H. S. Schaadt	531,600	Dec. 25	2684	644	69	1755
Punch, belt-cutter, and pliers. Combined belt	J. A. House	525,460	Sept. 4	242	59	68	1195
Punch. Check	J. C. Robinson	528,280	Oct. 30	2717	655	69	560
Punch for checks or other papers. Figure	J. B. Backus	521,358	June 12	1067	255	67	1409
Punch. Gang	F. D. Swaney	530,560	Dec. 11	873	215	69	1380
Punch machine. Center	R. S. Peabody	528,559	Nov. 6	57	15	69	656
Punch. Metal	T. E. Clark	519,240	May 1	547	133	67	643
Punch. Stamping	E. Saltzkorn and L. Nicolai	517,171	Mar. 27	2421	569	66	1954
Punch. Ticket	J. M. Black	518,518	Apr. 17	1877	465	67	375
Punch. Ticket	J. Dudley and R. E. Gibson	522,977	July 17	1377	343	68	292
Punch. Ticket	G. F. Matteson	517,053	Mar. 27	2218	526	66	1914
Punches or presses. Means for operating	E. B. Stimpson	525,871	Sept. 11	978	219	68	1341
Punching and cutting tool	D. G. Urquhart	524,473	Aug. 14	879	217	68	840
Punching and forming machine	C. P. Higgins	521,858	June 26	1955	{ 471 472 }	{ 67 67 }	1603
Punching and pinking machine	E. B. Stimpson	515,927	Mar. 6	303	72	66	1510
Punching and riveting machine. Combined	J. Baum	523,393	July 24	2103	529	68	442
Punching-bags. Apparatus for sustaining	J. P. MacLearn	519,918	May 15	1713	421	67	886
Punching-machine	W. E. Bennett	528,502	Oct. 30	3096	751	69	628
Punching-machine	P. L. Johnson	513,933	Jan. 30	3651	900	66	823
Punching-machine	T. A. Norris	520,215	May 22	2245	547	67	997
Punching-machine	E. B. Stimpson	525,872	Sept. 11	979	{ 219 220 }	{ 68 68 }	1341
Punching-machine	R. Walsh	524,623	Aug. 14	1130	273	68	886
Punching-machine and stripper therefor	F. Sotter	528,039	Oct. 23	2291	552	69	467
Punching machine. Eyelet-hole	H. Wright	521,068	June 5	565	{ 132 133 }	{ 67 67 }	1299
Punching machine. Metal	J. B. McLane	524,691	Aug. 14	1232	301	68	904
Punching-machines, &c. Apparatus for feeding plates or bars to	G. B. Hunter	512,829	Jan. 16	1855	{ 439 440 }	{ 66 66 }	378
Punching-tool	F. P. Brooks	519,626	May 8	1247	299	67	725
Purifier and aerator	J. and T. F. Newby	530,445	Dec. 4	634	158	69	1331
Purifier and dust-collector	N. W. Holt	513,788	Jan. 30	3428	{ 846 847 }	{ 66 66 }	778
Purifier and separator. Combined	E. Hards and W. A. Woodard	529,788	Nov. 27	2239	534	69	1102
Purifier, separator, and grader	D. J. Davidson	527,635	Oct. 23	1902	457	69	397
Purse. Coin-registering	M. H. Metal	528,910	Nov. 6	722	170	69	778
Purse-frame	S. Nathan	524,908	Aug. 21	1598	391	68	983
Purse or bag frame	J. E. Mergott and C. Hering	515,918	Mar. 6	291	69	66	1507
Purse or coin-receptacle	A. Goertz	519,765	May 15	1468	356	67	839
Push-bar plate	D. L. Barnes	514,638	Feb. 13	1110	277	66	1080
Push-button	C. D. Hunking	511,953	Jan. 2	383	89	66	72
Push-button	J. F. McLaughlin	521,808	June 26	1877	449	67	1588
Push-button for floors. Bell	N. J. Busby	513,705	Jan. 30	3309	815	66	757
Puttying-tool	T. Witte	512,930	Jan. 16	2037	482	66	411
Puzzle	A. W. Bartholomew	527,925	Oct. 23	2076	497	69	429
Puzzle	T. P. Briody	520,155	May 22	2145	522	67	978
Puzzle	M. W. Brooks	528,141	Oct. 30	2478	600	69	517
Puzzle	H. L. Cassard	519,989	May 15	1836	449	67	908
Puzzle	C. A. Emerson	522,250	July 3	130	31	68	25
Puzzle	J. M. Fuller	518,061	Apr. 10	1077	272	67	213
Puzzle	A. E. Harker	513,105	Jan. 23	2290	554	66	529
Puzzle	F. Hesse	530,774	Dec. 11	1237	299	69	1456
Puzzle	B. Kern, Jr.	511,895	Jan. 2	287	66	66	56
Puzzle	M. A. Klein	525,767	Sept. 11	775	180	68	1305
Puzzle	C. B. Macneal	524,258	Aug. 7	429	113	68	750
Puzzle	C. A. Meadows	511,904	Jan. 2	303	70	66	58
Puzzle	L. L. Porter	524,212	Aug. 7	422	100	68	738
Puzzle	L. P. Shriver	526,544	Sept. 25	2131	511	68	1520
Puzzle	W. E. Timmerman	526,637	Sept. 25	2020	481	68	1550
Puzzle	H. Walton	516,035	Mar. 6	496	114	66	1544
Puzzle apparatus	E. E. Blanchard	514,901	Feb. 20	1543	386	66	1177
Puzzle. Educational	S. P. Ferree	523,067	July 17	1530	382	68	320
Puzzle or game	J. A. Kirk	528,675	Nov. 6	281	68	69	697
Puzzle or solitaire game	T. F. Mingen	512,658	Jan. 9	1541	370	66	304
Pyrometer	E. Brown	520,875	June 5	217	49	67	1237
Pyrometer	E. A. Uehling and A. Steinbart. (Reissue.)	511,413	Apr. 17	1979	490	67	392
Pyrotechnic compound	J. Agostini	523,614	July 24	2487	.....	68	510
Pyrotechnic device	H. J. Pain	519,159	May 1	395	95	67	613
Pyroxilin compound and making same	R. S. Schuppphaus	528,212	Nov. 6	515	69	740
Pyroxilin labels. Making	R. R. Lansing	513,791	Jan. 30	3435	847	66	779

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Pyroxylin. Manufacture of solid compounds of	J. H. Stevens.....	517,987	Apr. 10	949	67	193
Pyroxylin solvents and their products. Manufactur-	G. O. Zeller.....	518,386	Apr. 17	1659	.....	67	336
Pyroxylin solvents and their products. Manufactur-	G. O. Zeller.....	518,387	Apr. 17	1659	.....	67	336
Pyroxylin solvents and their products. Manufactur-	G. O. Zeller.....	518,388	Apr. 17	1660	.....	67	336
Quarrying-tool.....	J. M. Crouch.....	512,605	Jan. 9	1446	349	66	284
Quartz-mill.....	T. C. McCleery.....	512,208	Jan. 2	793	193	66	150
Quill-strip-cutting machine.....	E. Blüthchen.....	519,659	May 8	1301	311	67	795
Quilting-frame.....	J. P. Banker.....	516,423	Mar. 13	1132	269	66	1679
Quilting-frame.....	T. W. Broadfoot.....	529,640	Nov. 20	2003	479	69	1050
Quilting-machine.....	W. B. and I. A. Click.....	529,518	Nov. 20	1807	430	69	1014
Race bulletin and displaying device.....	J. W. Fleming.....	522,980	July 17	1388	346	68	294
Race-course.....	W. Hallock.....	524,482	Aug. 14	894	220	68	842
Race-track.....	J. B. Dodge.....	529,162	Nov. 13	1143	276	69	875
Race-track-leveling machine.....	W. T. Newport.....	528,890	Nov. 6	668	161	69	768
Rack:							
<i>See</i> Barrel or cask rack. Hay and stock rack.							
Book-rack. Jar-rack.							
Bottle-rack. Lamp-chimney rack.							
Clothes-rack. Music-rack.							
Display-rack. Pen-rack.							
Dress-goods rack. Pie-rack.							
Dumping-rack. Scythe-rack.							
Extensible rack. Seed-rack.							
Harness-rack. Towel-rack.							
Hat-rack. Wall-paper display-rack.							
Hay-rack.							
Rack.....	A. J. Northcraft.....	512,739	Jan. 16	1668	400	66	342
Racking apparatus. Beer.....	H. Torchiani.....	519,513	May 8	1031	249	67	747
Racking beer. Method of and apparatus for.....	A. Werner.....	519,558	May 8	1425	270	67	764
Racking fine beer. Means for and method of.....	H. J. Wolters.....	516,324	Mar. 13	953	224	66	1648
Racking-off apparatus for storage-vat devices.....	H. J. Wolters.....	516,323	Mar. 13	952	224	66	1647
Radial drill.....	A. J. F. Mill.....	513,128	Jan. 23	2336	562	66	538
Radiator.....	T. Holland.....	511,843	Jan. 2	151	38	66	32
Radiator.....	J. Johnson.....	521,618	June 19	1549	362	67	1509
Radiator.....	L. H. Prentice and G. Mehring.....	524,733	Aug. 21	1313	321	68	932
Radiator.....	A. V. M. Sprague.....	512,234	Jan. 2	834	202	66	158
Radiator.....	C. Zitko.....	528,058	Oct. 23	2323	560	69	474
Radiator attachment.....	W. J. Baldwin.....	518,801	Apr. 24	2368	586	67	475
Radiator-coupling.....	T. C. Joy.....	524,804	Aug. 21	1431	350	68	934
Radiator. Electric.....	S. B. Jenkins.....	516,095	Mar. 6	582	136	66	1561
Radiator. Electric.....	W. D. Hough and E. Z. Burns.....	513,109	Jan. 23	2297	555	66	530
Radiator. Gas.....	L. Strimban.....	522,358	July 3	312	80	68	62
Radiator. Heat.....	C. I. Dangler and H. Ruppel.....	516,920	Mar. 20	1972	464	66	1852
Radiator. Heat.....	C. I. Dangler and H. Ruppel.....	521,139	June 5	638	161	67	1320
Radiator-loops. Machine for milling and tapping.....	J. E. Bidwell.....	511,872	Jan. 2	203	51	66	42
Radiator. Oil.....	H. Ruppel.....	517,242	Mar. 27	2528	594	66	1976
Radiator. Steam.....	H. W. Stone.....	521,832	June 26	1919	460	67	1596
Radiator. Steam.....	J. Walton.....	511,826	Jan. 2	122	30	66	26
Radiator. Steam or hot-water.....	J. D. Young.....	530,317	Dec. 4	423	106	69	1292
Radiator, stovepipe-shelf, and towel-rack. Combined.	G. Laube.....	526,628	Sept. 25	2261	541	62	1606
Rail.....	W. T. Manning.....	523,222	July 17	1818	456	68	373
Rail-bender.....	H. W. Armstrong.....	527,100	Oct. 9	690	169	69	144
Rail-bending press.....	J. E. Billups.....	512,857	Jan. 16	1916	452	66	389
Rail-bending tool.....	W. H. Phillips.....	520,073	May 22	1992	487	67	951
Rail-bond.....	W. A. Granten.....	527,785	Oct. 23	1827	439	69	385
Rail-bond. Electric.....	J. G. Hallas.....	523,278	July 17	1913	481	68	390
Rail bond or connector.....	C. J. Reed.....	530,651	Dec. 11	1036	253	69	1419
Rail-brake.....	G. Sands.....	526,001	Sept. 11	1183	270	68	1379
Rail-brake.....	H. L. Simmons.....	513,207	Jan. 23	2454	593	66	561
Rail-brake.....	E. T. Wilson.....	512,140	Jan. 2	680	163	66	130
Rail-cambering apparatus.....	H. C. Ryding.....	520,865	June 5	202	45	67	1234
Rail-chair.....	G. H. Sellers.....	514,243	Feb. 6	473	115	66	941
Rail chair and tie.....	E. N. Higley.....	531,263	Dec. 18	2089	500	69	1625
Rail chair and tie. Combined.....	J. Albrecht.....	526,603	Sept. 25	2229	532	68	1598
Rail chair and tie. Combined.....	J. Albrecht.....	526,604	Sept. 25	2230	532	68	1599
Rail chair and tie. Combined.....	J. Albrecht.....	529,097	Nov. 13	1038	259	69	854
Rail chair and tie. Combined.....	J. Albrecht.....	530,496	Dec. 11	744	184	69	1369
Rail clamping or fastening device.....	M. A. Possons.....	517,236	Mar. 27	2521	592	66	1974
Rail-cleaner and car-fender.....	J. S. Tomer.....	530,807	Dec. 11	1321	309	69	1464
Rail connection.....	T. C. Paulsen.....	517,884	Apr. 10	763	190	67	161
Rail-fastening.....	G. A. Weber.....	531,349	Dec. 25	2246	536	69	1670
Rail. Flanger guard.....	C. H. Sherwood.....	526,873	Oct. 2	340	84	69	64
Rail. Guard.....	G. B. Ames.....	522,038	June 26	2299	551	67	1666
Rail-joint.....	E. P. Caldwell.....	513,081	Jan. 23	2254	544	66	521
Rail-joint.....	E. P. Caldwell.....	519,904	May 15	1694	413	67	883
Rail-joint.....	W. C. Cranmer.....	518,834	Apr. 24	2419	599	67	485
Rail-joint.....	R. Herman.....	514,224	Feb. 6	430	104	66	932
Rail-joint.....	M. C. Niles.....	513,275	Jan. 23	2578	624	66	587
Rail-joint.....	M. C. Niles.....	529,044	Nov. 13	945	223	69	838
Rail-joint.....	M. O. Perkins.....	521,667	June 19	1628	381	67	1525
Rail-joint.....	J. Phelan.....	512,392	Jan. 9	1100	266	66	220
Rail-joint.....	C. L. Wheeler.....	512,781	Jan. 16	1777	422	66	363
Rail-joint.....	C. L. Wheeler.....	512,851	Jan. 16	1903	449	66	387
Rail-joint.....	C. L. Wheeler.....	512,852	Jan. 16	1905	450	66	387
Rail joint or coupling.....	J. G. Miller.....	516,870	Mar. 20	1282	445	66	1836
Rail joint or coupling.....	C. E. Miller and P. M. Haas.....	512,733	Jan. 16	1657	398	66	340

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Rail-joint-securing device.....	J. L. Pope.....	513,340	Jan. 23	2672	647	66	604
Rail-joint support.....	F. P. Stiker.....	518,634	Apr. 24	2069	{ 514 515 }	67	423
Rail-joint. Suspended.....	O. H. Lang.....	523,796	July 31	2324	701	65	588
Rail or bar bender.....	M. H. Brown.....	520,876	June 5	219	49	67	1237
Rail-sanding apparatus.....	W. L. Truland.....	527,630	Oct. 16	1567	379	69	319
Rail-straightening machine.....	H. Wick, Jr.....	523,496	July 24	2301	{ 579 580 }	68	475
Rail-tie plate and brace.....	A. L. Starke.....	520,276	May 22	2350	570	67	1017
Rails, bars, &c. Implement for straightening.....	A. Meuser.....	519,920	May 15	1715	421	67	886
Rails or other metal bars. Machine for straightening.....	A. J. Moxham.....	518,197	Apr. 10	1314	329	67	257
Rails. Renewing old steel.....	E. W. McKenna.....	522,228	July 3	91	21	68	18
Rails to metal sleepers. Appliance for securing flanged.....	E. H. Stone.....	513,838	Jan. 30	3507	864	66	795
Railway.....	C. F. Laib.....	528,884	Nov. 6	660	{ 158 159 }	69	767
Railway annunciator.....	C. R. Alsop.....	527,098	Oct. 9	686	169	69	143
Railway battery system. Electric.....	L. B. Rowley.....	512,907	Jan. 16	1993	{ 472 473 }	66	404
Railway block-signal.....	C. H. Sherwood.....	530,311	Dec. 4	412	103	69	1290
Railway bond. Electric.....	D. D. Book.....	526,142	Sept. 18	1425	333	68	1435
Railway bond. Electric.....	J. Meyer.....	515,478	Feb. 27	2483	614	66	1363
Railway bond. Electric.....	J. Meyer.....	518,414	Apr. 17	1700	421	67	344
Railway bond. Electric.....	H. B. Nichols and F. H. Lincoln.....	528,788	Nov. 6	470	115	69	732
Railway bonding-joint. Electric.....	A. L. Johnston.....	523,284	July 17	1921	483	68	392
Railway-brake.....	R. H. Bulloch and J. W. Mallard.....	524,037	Aug. 7	113	24	68	683
Railway-brake-operating apparatus.....	R. A. Kiskadden.....	519,688	May 8	1348	325	67	804
Railway bridle-rod.....	H. A. Morin.....	518,348	Apr. 17	1584	392	67	322
Railway brush. Street.....	P. A. and A. R. Coonradt.....	513,858	Jan. 30	3594	885	66	812
Railway. Cable.....	C. W. Hunt.....	520,644	May 29	2952	714	67	1145
Railway. Cable.....	C. W. Hunt.....	522,713	July 10	918	223	68	192
Railway. Cable.....	N. D. Polites.....	524,788	Aug. 21	1401	342	68	948
Railway. Cable street.....	F. Hoch.....	521,500	June 19	1349	314	67	1474
Railway-carriages. Ventilating.....	S. Hughes.....	521,316	June 12	1001	{ 235 236 }	67	1392
Railway-carriages. Ventilating.....	S. Hughes.....	521,795	June 26	1859	445	67	1585
Railway cattle-guard.....	P. L. Brady.....	526,124	Sept. 18	1395	325	68	1430
Railway cattle-guard.....	E. Cook.....	520,178	May 22	2162	531	67	985
Railway cattle-guard.....	E. Cook.....	520,179	May 22	2183	332	67	985
Railway cattle-guard.....	A. J. Gwin.....	527,684	Oct. 16	1657	399	69	336
Railway cattle-guard.....	J. M. Lee.....	514,152	Feb. 6	291	70	66	908
Railway-chair.....	G. A. Bartholomew.....	527,926	Oct. 23	2077	497	69	429
Railway-chair.....	C. Chenn.....	530,925	Dec. 18	1475	349	69	1515
Railway-chair.....	A. F. Naylor.....	520,534	May 29	2773	671	67	1111
Railway-chair.....	E. Nennstiel.....	527,712	Oct. 16	1696	409	69	343
Railway-chair.....	C. H. Read.....	515,363	Feb. 27	2301	571	66	1329
Railway check and indicator.....	J. Lord and T. R. Leason.....	523,859	July 31	2941	733	68	610
Railway. Closed-conduit.....	C. J. Kintner.....	512,444	Jan. 9	1204	{ 291 292 }	66	239
Railway. Closed-conduit electric.....	F. M. Ashley.....	514,112	Feb. 6	212	49	66	894
Railway. Closed-conduit electric.....	E. H. Brown.....	516,626	Mar. 13	1482	352	66	1745
Railway. Closed-conduit electric.....	C. G. Burke.....	529,704	Nov. 27	2107	505	69	1079
Railway. Closed-conduit electric.....	F. L. King.....	516,374	Mar. 13	1053	250	66	1664
Railway. Closed-conduit electric.....	J. F. McLaughlin.....	527,873	Oct. 23	1980	476	69	411
Railway. Closed-conduit electric.....	J. F. McLaughlin.....	527,874	Oct. 23	1983	477	69	411
Railway. Closed-conduit electric.....	J. F. McLaughlin.....	528,379	Oct. 30	2281	698	69	590
Railway collisions. Device for preventing.....	C. Holtmann and N. Schmidt.....	522,757	July 10	1025	254	68	208
Railway collisions. Device for preventing.....	G. F. Klaffky and F. Faltinowsky.....	514,083	Feb. 6	169	40	66	886
Railway-conductor support. Electric.....	J. C. Henry.....	519,115	May 1	299	71	67	592
Railway conduit. Electric.....	F. M. Ashley.....	514,114	Feb. 6	216	50	66	895
Railway conduit. Electric.....	P. P. Banholzer.....	518,540	Apr. 17	1912	473	67	321
Railway. Conduit electric.....	T. Armat.....	521,562	June 19	1446	{ 336 337 }	67	1491
Railway. Conduit electric.....	R. C. Beardsley.....	514,056	Feb. 6	127	30	66	877
Railway. Conduit electric.....	J. A. Cassidy and W. A. Butler.....	515,572	Feb. 27	2633	654	66	1393
Railway. Conduit electric.....	J. F. Cook.....	519,380	May 8	810	198	67	708
Railway. Conduit electric.....	W. R. De Voe.....	520,304	May 22	2389	581	67	1024
Railway. Conduit electric.....	J. W. Eisenhuth.....	523,271	July 17	1902	{ 478 479 }	68	388
Railway. Conduit electric.....	O. B. Finn.....	527,601	Oct. 16	1521	369	69	310
Railway. Conduit electric.....	H. A. Goreham.....	517,692	Apr. 3	468	113	67	90
Railway. Conduit electric.....	J. L. Hornig.....	528,205	Oct. 30	2586	627	69	536
Railway. Conduit electric.....	R. M. Hunter.....	524,025	Aug. 7	93	20	68	679
Railway. Conduit electric.....	W. F. Jenkins.....	517,804	Apr. 3	647	162	67	126
Railway. Conduit electric.....	C. D. Jenney.....	523,146	July 17	1685	{ 421 422 }	68	319
Railway. Conduit electric.....	W. C. Keithly.....	517,549	Apr. 3	218	50	67	43
Railway. Conduit electric.....	D. Mason.....	530,543	Dec. 11	842	{ 207 208 }	69	1385
Railway. Conduit electric.....	C. A. Maynard.....	518,695	Apr. 24	2177	544	67	443
Railway. Conduit electric.....	L. C. Pressley.....	529,636	Nov. 27	2331	551	69	1120
Railway. Conduit electric.....	C. J. Reed.....	521,891	June 26	2007	{ 484 485 }	67	1614
Railway. Conduit electric.....	C. J. Reed.....	521,892	June 26	2011	485	67	1615
Railway. Conduit electric.....	C. W. Siemens.....	520,856	May 22	2481	602	67	1041
Railway. Conduit electric.....	W. H. Swift.....	520,450	Dec. 25	2437	580	69	1707
Railway. Conduit electric.....	J. E. Toole.....	527,301	Oct. 9	1025	249	69	204
Railway. Conduit electric.....	J. H. Tyrrell.....	522,440	July 3	465	{ 117 118 }	68	92
Railway conduit. Electric.....	M. Cattori.....	526,963	Oct. 2	481	{ 118 119 }	69	91
Railway conduit. Electric.....	A. T. Fay.....	522,460	July 3	495	125	68	99
Railway conduit. Electric.....	D. F. Graham and W. P. Allen.....	526,392	Sept. 25	1876	{ 445 446 }	68	1534

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Railway condnit. Electric.....	R. I. Hampton.....	514,827	Feb. 13	1416	358	66	1139
Railway conduit. Electric.....	M. I. Martin.....	530,283	Dec. 4	370	91	69	1282
Railway conduit. Electric.....	H. A. F. Petersen.....	516,876	Mar. 20	1291	447	66	1838
Railway conduit. Electric.....	M. S. Towson.....	515,179	Feb. 20	1973	492	66	1256
Railway conduit. Electric.....	R. B. Wilson.....	526,767	Oct. 2	164	38	69	31
Railway conduit system. Electric.....	W. A. Butler.....	527,265	Oct. 9	960	233	69	193
Railway condnit system. Electric.....	J. B. Linn.....	528,330	Oct. 30	2799	676	69	574
Railway construction.....	J. L. Silsbee.....	527,891	Oct. 23	2016	484	69	417
Railway cross.....	A. J. Moxham.....	526,455	Sept. 25	2005	477	68	1557
Railway cross-tie.....	F. P. Fenebacher.....	521,158	June 12	723	171	67	1341
Railway cross-tie.....	R. R. McClellan.....	512,387	Jan. 9	1094	265	66	219
Railway cross-tie.....	J. Temple and J. C. Ward.....	517,369	Mar. 27	2743	645	66	2018
Railway-crossing.....	A. J. Moxham.....	530,197	Dec. 4	211	53	69	1254
Railway-crossing.....	C. H. White.....	514,343	Feb. 6	626	160	66	970
Railway-crossing. Automatic.....	D. L. McNamara.....	512,390	Jan. 9	1097	266	66	219
Railway-crossing danger-signal.....	S. Eyer and D. Smeltzer.....	517,097	Mar. 27	2296	541	66	1930
Railway-crossing danger-signal.....	M. W. Parrish.....	522,670	July 10	845	210	68	179
Railway-crossing electric-alarm system.....	A. J. Wilson.....	515,638	Feb. 27	2732	680	66	1412
Railway-crossing gate.....	G. C. and T. A. Corbin.....	517,792	Apr. 3	629	157	67	122
Railway-crossing gate.....	L. Harris.....	521,881	June 26	1992	421	67	1611
Railway-crossing gate.....	F. W. Mills.....	522,798	July 10	1085	268	68	221
Railway-crossing gate.....	G. W. Philippi.....	526,941	Oct. 2	454	112	69	85
Railway-crossing gate.....	J. Rutherford.....	531,066	Dec. 18	1717	408	69	1558
Railway-crossing gate.....	J. M. Swem.....	515,307	Feb. 20	2196	544	66	1298
Railway-crossing-gate tube.....	W. L. Dodge.....	523,624	July 24	2508	629	68	514
Railway-crossing signal. Electric.....	M. J. O'Sullivan.....	514,566	Feb. 13	923	249	66	1056
Railway crossing. Street.....	W. C. Wood.....	512,351	Jan. 9	1024	250	66	205
Railway-crossing track-cleaner.....	F. C. Stendel.....	520,192	May 22	2207	537	67	990
Railway-crossings. Electric-alarm signal for.....	J. J. Ross.....	522,431	July 3	455	115	68	90
Railway-crossings. Electric signal for.....	D. W. Smith.....	529,759	Nov. 27	2196	523	69	1094
Railway current-collector. Electric.....	E. M. Boynton.....	512,535	Jan. 9	1344	324	66	265
Railway danger-signal. Pyrotechnic.....	F. A. Fox and A. P. Yates.....	520,639	May 29	2944	712	67	1144
Railway. Electric.....	F. M. Ashley.....	514,113	Feb. 6	215	50	66	895
Railway. Electric.....	B. F. Comstock.....	515,654	Feb. 27	2759	6-8	66	1418
Railway. Electric.....	M. W. Dewey.....	516,188	Mar. 13	743	174	66	1607
Railway. Electric.....	H. A. Doty.....	523,306	July 17	1956	493	68	399
Railway. Electric.....	O. A. Enholm.....	514,120	Feb. 6	225	52	66	897
Railway. Electric.....	P. W. Leffler.....	514,561	Feb. 13	972	246	66	1054
Railway. Electric.....	C. H. Macloskie and H. M. Brinckorhoff.....	531,441	Dec. 25	2418	576	69	1704
Railway. Electric.....	H. S. Pruyn.....	517,886	Apr. 10	765	191	67	162
Railway. Electric.....	W. B. Purvis.....	519,291	May 1	631	154	67	659
Railway. Electric.....	H. E. Rider.....	525,864	Sept. 11	968	217	68	1339
Railway. Electric.....	E. W. von Siemens.....	520,274	May 22	2347	569	67	1016
Railway. Electric and gravity pleasure.....	C. A. Idler.....	527,990	Oct. 23	2214	534	69	454
Railway electric signaling apparatus.....	E. C. Wiley.....	514,398	Feb. 6	704	178	66	985
Railway electric switch.....	W. V. and J. H. Ash.....	528,898	Nov. 6	679	164	69	771
Railway electric switch.....	C. M. Fitch.....	529,164	Nov. 13	1146	277	69	875
Railway. Electrical.....	B. Bidwell.....	517,258	Mar. 27	2559	600	66	1981
Railway. Elevated.....	L. Anderson.....	518,170	Apr. 10	1253	315	67	244
Railway. Elevated.....	C. C. Burton.....	518,564	Apr. 17	1952	482	67	388
Railway. Elevated.....	J. C. des Granges.....	527,236	Oct. 9	912	220	69	185
Railway. Elevated.....	F. J. Korff.....	520,163	May 22	2156	525	67	980
Railway. Elevated.....	A. S. Pickett.....	529,749	Nov. 27	2179	519	69	1091
Railway. Elevated.....	B. Roberts.....	518,925	Apr. 24	2573	636	67	515
Railway. Elevated.....	T. J. Shorb.....	529,757	Nov. 27	2193	523	69	1094
Railway. Elevated.....	J. N. Valley.....	530,810	Dec. 11	1285	311	69	1465
Railway flag-signal. Automatic.....	D. M. Bailey.....	517,111	Mar. 27	2316	545	66	1931
Railway fog-signal apparatus.....	J. G. Dixon.....	520,671	May 29	3008	726	67	1155
Railway-frog.....	B. Blake.....	524,457	Aug. 14	859	210	68	836
Railway-frog.....	D. Horrie.....	519,577	May 8	1163	280	67	771
Railway-frog.....	D. Horrie.....	528,776	Nov. 6	449	110	69	728
Railway-frog.....	W. C. Meeker.....	511,784	Jan. 2	64	16	66	15
Railway-frog.....	H. O'Shea.....	520,861	June 5	195	43	67	1232
Railway frog.....	W. Rowlands.....	524,469	Aug. 14	873	215	68	839
Railway-frog.....	C. W. Speckin.....	528,348	Oct. 30	2826	683	69	579
Railway-frog.....	A. L. Stanford.....	522,240	July 3	112	26	68	21
Railway-frog.....	C. B. Stewart and T. L. Wedge.....	514,630	Feb. 13	1096	273	66	1077
Railway-frog.....	D. F. Vaughan.....	526,548	Sept. 25	2137	512	68	1581
Railway frog and switch.....	F. Hardy.....	531,030	Dec. 18	1661	394	69	1547
Railway-frog foot-guard.....	M. Riley.....	530,658	Dec. 11	1046	255	69	1420
Railway frog, switch, and guard-rail block.....	J. D. Green.....	526,442	Sept. 25	1981	472	68	1553
Railway-gate.....	C. A. Ball.....	531,087	Dec. 18	1761	420	69	1565
Railway-gate.....	A. Barré and E. Currier.....	523,783	July 31	2795	694	68	582
Railway-gate.....	F. Carlson.....	526,770	Oct. 2	168	39, 40	69	32
Railway gate and signal. Automatic.....	E. Death.....	529,250	Nov. 13	1304	313	69	902

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Railway-gate. Automatic.....	J. Baade.....	524,662	Aug. 14	1188	292	68	897
Railway-gate. Automatic.....	W. T. Crawford.....	529,637	Nov. 20	1997	{ 477 478	69	1049
Railway-gate. Automatic.....	G. D. Warren.....	514,795	Feb. 13	1369	344	66	1130
Railway-gate. Automatic pneumatic.....	C. H. Sherwood.....	526,872	Oct. 2	337	83, 84	69	64
Railway. Gravity.....	J. W. Cawdery.....	518,224	Apr. 17	1367	342	67	283
Railway. Gravity.....	A. Witschold.....	525,882	Sept. 11	997	224	68	1345
Railway grip mechanism. Cable.....	C. I. Earll.....	520,259	May 22	2320	{ 562 563	67	1010
Railway gripper. Cable.....	B. Brownstein.....	528,359	Oct. 30	2851	691	69	584
Railway-guard.....	O. Bates and G. W. Smith.....	527,192	Oct. 9	836	203	69	171
Railway guard-rail. Street.....	G. F. Starkweather.....	523,182	July 17	1750	439	68	361
Railway guard. Street.....	W. T. Vose.....	523,921	July 31	3047	761	68	630
Railway-head and drawing-frame.....	W. E. Sharples and F. J. Snell.....	530,358	Dec. 4	503	124	69	1306
Railway. Induction electric.....	C. E. Roehl.....	517,531	Apr. 3	185	42	67	38
Railway-joint bridge.....	C. C. Wells.....	526,954	Oct. 2	467	115	69	88
Railway-joint splice-bar.....	J. Tearney and J. T. O'Connell.....	516,665	Mar. 20	1554	370	66	175
Railway-joints. Automatic locking device for.....	J. L. Pope.....	515,415	Jan. 23	2788	682	66	626
Railway-motor gear-casing.....	N. C. Bassett.....	522,579	July 10	697	177	68	152
Railway motor. Street.....	W. H. H. Stineman.....	524,961	Aug. 21	1687	414	68	998
Railway oil-box jack.....	F. A. Moore.....	522,762	July 10	1034	255	62	210
Railway. Overhead electric.....	J. C. Henry.....	516,808	Mar. 20	1777	420	66	184
Railway overhead switch. Electric.....	M. A. Smith and W. Clabaugh.....	520,971	June 5	393	95	67	1269
Railway. Platform.....	T. Kennedy.....	515,756	Feb. 13	1307	325	66	1117
Railway pole. Electric.....	E. W. Serrell.....	514,665	Feb. 13	1151	287	66	1088
Railway pole-ratchet. Electric.....	T. J. McTighe.....	524,282	Aug. 7	524	123	68	756
Railway-rail.....	L. K. Devlin.....	531,290	Dec. 18	2140	513	69	1635
Railway-rail.....	C. H. Jenne.....	514,716	Feb. 13	1236	308	66	1104
Railway-rail.....	A. F. La Shells.....	528,950	Nov. 13	798	186	69	812
Railway-rail.....	A. J. Moxham.....	531,444	Dec. 25	2428	{ 577 578	69	1705
Railway-rail.....	S. A. Roake and F. G. Smith.....	518,679	Apr. 24	2151	533	67	439
Railway-rail.....	A. Schwarzschild.....	530,131	Dec. 4	95	25	69	1233
Railway-rail.....	H. L. Stillman.....	513,445	Jan. 23	2841	697	66	635
Railway rail and chair and uniting same.....	M. M. Suppes.....	517,075	Mar. 27	2256	534	66	1922
Railway rail and joint. Combination.....	W. H. McCormick.....	517,551	Apr. 3	223	51	67	44
Railway-rail chair.....	H. O'Shea.....	520,860	June 5	194	43	67	1232
Railway-rail chair and cross-tie combined.....	A. J. Moxham.....	513,712	Jan. 30	3322	{ 820 821	66	759
Railway-rail chairs. Making.....	A. J. Moxham.....	520,654	May 29	2966	717	67	1147
Railway-rail clamp.....	D. B. Ruffner.....	517,665	Apr. 3	424	103	67	81
Railway-rail girder-joint.....	J. M. Price.....	517,660	Apr. 3	416	101	67	80
Railway-rail joint.....	L. Anderson and L. M. Hosea.....	517,829	Apr. 10	681	170	67	147
Railway-rail joint.....	H. H. Fifield.....	527,367	Oct. 9	1134	276	69	225
Railway-rail joint.....	M. Hall and W. H. Baker.....	520,425	May 29	2592	627	67	1073
Railway-rail joint.....	C. B. Herman.....	523,837	July 31	2901	723	68	603
Railway-rail joint.....	A. J. Moxham.....	513,711	Jan. 30	3322	820	66	758
Railway-rail joint.....	K. B. Muehlfeith and C. J. Ibel.....	515,785	Mar. 6	96	22	66	1472
Railway-rail joint.....	H. Roberts.....	521,866	June 26	1969	476	67	1066
Railway-rail joint.....	J. N. Wilson.....	513,695	Jan. 30	3288	810	66	753
Railway-rail joint.....	L. C. Zollinger and W. H. Pattee.....	523,212	Sept. 18	1553	364	68	1458
Railway-rail joint and bond. Electric.....	J. Meyer.....	522,349	July 3	298	77	68	60
Railway-rail joint splice and brace.....	M. Martin.....	514,862	Feb. 13	1472	370	66	1149
Railway-rail joints. Splice or support for.....	L. H. Woolley.....	524,283	Aug. 7	550	131	68	760
Railway-rail joints. Truss for.....	W. F. Dimmick.....	527,198	Oct. 9	847	206	69	173
Railway rail or tie distributor.....	C. C. Gates.....	521,023	June 5	479	114	67	1283
Railway-rail support.....	G. W. Cady.....	514,179	Feb. 6	337	81	66	917
Railway-rail tie.....	J. C. Cowdrick.....	527,668	Oct. 16	1629	392	69	330
Railway-rails. Apparatus for leveling the meeting ends of.....	G. Norwood.....	527,805	Oct. 23	1858	446	69	390
Railway-rails. Electric connection for.....	A. Green.....	513,777	Jan. 30	3414	842	66	776
Railway-rails. Electrical connection for.....	A. J. Moxham.....	531,445	Dec. 25	2430	578	69	1706
Railway-rails. Fish-plate splice for connecting.....	W. J. Sheldon.....	521,441	June 19	1316	306	67	1468
Railway-rails in paved streets. Laying.....	G. C. Warren.....	512,343	Jan. 9	1013	248	66	203
Railway-rails. Self-acting cleaner for grooves or hollows of.....	D. C. Le Bras.....	522,761	July 10	1032	255	68	210
Railway-rails. Substructure for.....	J. M. Price.....	519,772	May 15	1480	359	67	841
Railway-rails. Substructure for bracing and supporting.....	J. M. Price.....	522,852	July 10	1159	{ 288 289	68	235
Railway safety system.....	W. H. Elkins.....	520,520	May 29	2752	666	67	1107
Railway sanding device.....	C. B. Andrews.....	528,500	Oct. 30	3093	750	69	628
Railway sanding device.....	W. Grunow, Jr.....	520,048	May 22	1933	474	67	941
Railway sanding device.....	J. Yeager.....	527,825	Oct. 23	1887	{ 452 453	69	395
Railway. Sectional electric.....	G. W. Demmick.....	513,894	Jan. 30	3600	887	66	813
Railway. Series electric.....	M. A. Cattori.....	514,303	Feb. 6	570	{ 142 143	66	960
Railway. Ship.....	A. M. G. Sébillot and F. Weidknecht.....	530,245	Dec. 4	298	{ 74 75	69	1270
Railway-signal.....	H. M. Abernethy.....	523,257	July 17	1885	{ 473 474	68	385
Railway-signal.....	G. F. Adams and J. S. Lynam.....	528,213	Nov. 13	733	172	69	801
Railway-signal.....	G. F. Adams and J. S. Lynam.....	528,914	Nov. 13	734	172	69	801
Railway-signal.....	R. Black and C. M. Havey.....	529,889	Nov. 27	2416	580	69	1136
Railway-signal.....	F. L. Dodgson.....	514,118	Feb. 6	221	51	66	896
Railway-signal.....	E. W. Harden.....	516,049	Mar. 6	517	120	66	1549
Railway-signal.....	C. M. Havey and R. Black.....	512,441	Jan. 9	1198	290	66	238
Railway-signal.....	A. H. Johnson.....	514,192	Feb. 6	361	86	66	921
Railway-signal.....	J. R. Jones.....	513,934	Jan. 30	3652	{ 900 901	66	824
Railway-signal.....	C. C. and G. F. Kahne and A. A. Adkins.....	517,751	Apr. 3	565	138	67	110
Railway-signal.....	F. E. Kinsman.....	523,723	July 31	2701	669	68	565

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Railway-signal.....	J. O. Pattee and C. W. Case.....	516,656	Mar. 20	1540	366	66	1772
Railway-signal.....	F. R. Payne.....	528,797	Nov. 6	490	119	69	735
Railway-signal.....	J. V. Richardson.....	530,798	Dec. 11	1269	306 307	69	1462
Railway-signal.....	C. Selden.....	512,754	Jan. 16	1718	410	66	352
Railway-signal.....	C. Selden.....	529,812	Nov. 27	2287	546 544 545 546	69	1111
Railway-signal.....	C. Selden and F. P. J. Patenall.....	529,811	Nov. 27	2280	544 545 546	69	1110
Railway-signal.....	F. G. Smith.....	525,367	Sept. 4	80	21, 22	68	1165
Railway-signal.....	C. A. Weller.....	527,914	Oct. 23	2057	493	69	426
Railway-signal.....	R. S. Wiles.....	515,807	Mar. 6	128	30, 31	66	1477
Railway-signal.....	R. S. Wiles.....	515,808	Mar. 6	130	31	66	1477
Railway-signal.....	G. C. Young.....	512,644	Jan. 9	1521	365 366 524 525	66	299
Railway signal and system.....	W. B. Gray and H. Shepley.....	520,161	May 22	2153	525	67	980
Railway-signal. Automatic.....	J. T. Carter.....	530,013	Nov. 27	2656	637	69	1183
Railway signal. Cable.....	G. F. Klaffky and F. Faltinowsky.....	529,920	Nov. 27	2465	594	69	1145
Railway-signal carrier.....	N. A. Faus.....	525,889	Sept. 11	1006	226	68	1347
Railway-signal case.....	U. G. Selby.....	526,820	Oct. 2	246	60	69	47
Railway-signal. Detonating.....	J. P. O'Donnell.....	516,219	Mar. 13	792	125	66	1617
Railway signal device.....	F. E. Kinsman.....	520,061	May 22	1954	478 479	67	945
Railway-signal. Electric.....	C. R. Alsop.....	521,455	June 19	1269	296	67	1459
Railway-signal. Electric.....	F. Beattie.....	519,932	May 15	1746	428 429	67	892
Railway-signal. Electric.....	C. A. Hammond.....	523,767	July 31	2773	687 689	68	578
Railway-signal. Electric.....	B. F. Rex.....	518,511	Apr. 17	1863	462 463	67	372
Railway-signal. Electric.....	B. Samuels.....	521,553	June 19	1435	334	67	1489
Railway-signal. Electric.....	C. Selden and H. V. Riley.....	530,661	May 29	2979	721	67	1149
Railway-signal. Electric.....	C. Selden and H. V. Riley.....	530,710	May 29	3080	745	67	1168
Railway-signal. Electric.....	R. M. Strong and C. F. Reed.....	519,932	May 15	1737	425 426	67	889
Railway-signal. Electric.....	A. J. Wilson.....	528,245	Oct. 30	2657	640	69	549
Railway-signal. Electric.....	A. J. Wilson.....	528,246	Oct. 30	2659	641	69	550
Railway-signal. Electrical.....	L. Dornberger.....	524,758	Aug. 21	1353	330	68	939
Railway-signal. Electrical.....	I. L. Green.....	516,596	Mar. 13	1424	378 339	66	1733
Railway-signal. Electrical.....	I. L. Green.....	516,598	Mar. 13	1430	340	66	1735
Railway-signal. Electrical.....	H. V. Riley and C. Selden.....	515,366	Feb. 27	2305	572	66	1330
Railway-signal. Electrical.....	W. F. Seymour.....	525,290	Aug. 28	2277	554	68	1123
Railway-signal. Electrically-controlled.....	F. McBrien.....	512,050	Jan. 2	531	125	66	102
Railway-signal. Electrically-controlled.....	F. McBrien.....	512,051	Jan. 2	534	126	66	102
Railway-signal. Electrically-controlled.....	J. Wayland.....	512,077	Jan. 2	584	138 139	66	111
Railway signal system. Automatic electric.....	C. P. Breese.....	515,648	Feb. 27	2750	685	66	1416
Railway-signals. Mechanical trip for.....	C. A. Hammond.....	530,414	Dec. 4	588	146	69	1322
Railway-signals. Pneumatic system of and apparatus for handling.....	J. W. Thomas, Jr.....	520,813	June 5	100	22, 23	67	1215
Railway-signals. Tension-adjusting device for.....	J. T. Hambay.....	520,397	May 22	2543	615	67	1054
Railway signaling and switching apparatus.....	J. D. Taylor.....	516,903	Mar. 20	1937	457 458	66	1846
Railway signaling apparatus.....	S. H. Harrington.....	515,469	Feb. 27	2469	611 612	66	1361
Railway signaling apparatus.....	P. Ribard.....	522,494	July 3	542	138	68	107
Railway signaling apparatus.....	W. G. Scott.....	522,676	July 10	855	213	68	181
Railway signaling apparatus.....	E. A. Winterhalder.....	513,376	Jan. 23	2728	662 663	66	614
Railway signaling apparatus. Electrical.....	P. Schwenke.....	525,866	Sept. 11	971	217 218	68	1340
Railway signaling apparatus. Self-acting.....	G. H. Wood.....	528,454	Oct. 30	3012	727 728	69	613
Railway signaling by means of detonating or explosive signals.....	H. Brocklehurst.....	525,584	Sept. 4	445	106 107	68	1234
Railway signaling. Detonator holder or clip for use in fog.....	J. G. Dixon.....	527,480	Oct. 16	1326	323	69	277
Railway signaling device.....	W. H. Allen.....	524,519	Aug. 14	958	235	68	853
Railway signaling device.....	W. Daves.....	524,038	Aug. 7	114	25	68	683
Railway signaling. Electric.....	W. Daves.....	530,093	Dec. 4	29	8	69	1220
Railway signaling. Electric torpedo apparatus and system for.....	J. W. Lattig.....	522,528	July 3	598	153	68	118
Railway signaling. Interlocking lever for.....	S. T. Dutton.....	511,884	Jan. 2	271	62	66	53
Railway signaling purposes. Detonator for.....	H. F. Clark.....	522,650	July 10	816	204	68	173
Railway signaling system.....	M. Corrington.....	528,593	Nov. 6	123	29, 30	69	668
Railway signaling. Torpedo machine or apparatus for.....	J. W. Lattig.....	522,473	July 3	511	130	68	102
Railway signaling. Treadle for use in.....	J. G. Dixon.....	527,481	Oct. 16	1327	323	69	277
Railway special work. Street.....	W. C. Wood.....	511,831	Jan. 2	132	33, 34	66	28
Railway-spike.....	G. W. Thompson.....	519,511	May 8	1027	248	67	746
Railway supply-circuit. Electric.....	R. M. Hunter.....	522,374	July 3	338	87	68	67
Railway supply system. Electric.....	W. A. Butler.....	523,104	July 17	1593	400 401	68	333
Railway supply system. Electric.....	J. F. Cummings.....	516,565	Mar. 13	1377	327 328	66	1725
Railway supply system. Electric.....	J. F. Cummings.....	524,976	Aug. 21	1716	420	68	1003
Railway supply system. Electric.....	Z. Foster.....	530,033	Nov. 27	2687	646	69	1189
Railway supply system. Electric.....	J. J. Green.....	522,711	July 10	911	225	68	101
Railway supply system. Electric.....	J. J. Green.....	530,462	Dec. 4	720	177	69	1346
Railway supply system. Electric.....	C. H. Harkins.....	528,477	Oct. 30	3055	741	69	621
Railway supply system. Electric.....	T. Harris.....	521,711	June 19	1699	400	67	1539

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Railway supply system. Electric.....	E. H. Johnson and R. Lundell.....	523,164	July 17	1713	{ 430	68	354
Railway supply system. Electric.....	E. H. Johnson and R. Lundell.....	523,165	July 17	1719	{ 431		355
Railway supply system. Electric.....	E. H. Johnson and R. Lundell.....	523,166	July 17	1723	432	68	355
Railway supply system. Electric.....	H. S. Prunyn.....	513,440	Jan. 23	2825	693	66	633
Railway supply system. Electric.....	M. Wheelless.....	524,773	Aug. 21	1381	{ 336	68	944
Railway-switch.....	J. F. Barrett.....	524,521	Aug. 14	960	{ 337		853
Railway-switch.....	H. O. Benagh.....	519,298	May 1	643	157	67	661
Railway-switch.....	E. Brombacher.....	527,547	Oct. 16	1433	349	69	295
Railway-switch.....	F. Brown.....	517,727	Apr. 3	525	127	67	102
Railway-switch.....	J. U. Butcher.....	529,245	Nov. 13	1291	{ 310	69	900
Railway-switch.....	H. B. Büttel.....	521,014	June 5	469	{ 311		1281
Railway-switch.....	D. M. Church. (Reissue).....	11,404	Feb. 13	1527	382	66	1159
Railway-switch.....	D. M. Church.....	520,254	May 22	2311	560	67	1009
Railway-switch.....	D. M. Church.....	522,951	July 10	1332	331	68	268
Railway-switch.....	S. F. Clouser.....	522,760	July 10	1059	261	68	216
Railway-switch.....	S. F. Clouser.....	522,782	July 10	1062	262	68	216
Railway-switch.....	S. F. Clouser and E. C. Seward.....	522,781	July 10	1061	261	68	216
Railway-switch.....	E. W. Coughlin.....	520,302	May 22	2385	580	67	1024
Railway-switch.....	S. H. Crampton.....	524,847	Aug. 21	1510	369	68	967
Railway-switch.....	J. R. Crow and J. H. Mulkey.....	526,993	Oct. 2	526	{ 129	69	99
Railway-switch.....	W. C. Dillman.....	522,684	July 10	1198	{ 130		242
Railway-switch.....	W. C. Dillman.....	522,885	July 10	1199	299	68	243
Railway-switch.....	W. Douglas.....	525,140	Aug. 28	2042	498	68	1079
Railway-switch.....	C. H. Eimke.....	530,404	Dec. 4	575	{ 142	69	1320
Railway-switch.....	H. Elliot.....	517,379	Mar. 27	2757	{ 143		2021
Railway-switch.....	C. Froelich.....	519,082	May 1	246	58	67	523
Railway-switch.....	W. Halliday and T. F. Rawls.....	515,675	Feb. 27	2797	697	66	1425
Railway-switch.....	G. W. Hanner.....	518,755	Apr. 24	2294	570	67	463
Railway-switch.....	E. W. Harden.....	516,050	Mar. 6	518	120	66	1549
Railway-switch.....	F. Hardy and L. W. McCants.....	516,599	Mar. 13	1432	340	66	1735
Railway-switch.....	L. N. Jägel, C. G. Smith, and A. B. Pruden.....	521,716	June 19	1710	403	67	1541
Railway-switch.....	J. R. Jones.....	513,935	Jan. 30	3654	901	66	824
Railway-switch.....	A. Kneip.....	513,944	Jan. 30	3672	904	66	828
Railway-switch.....	E. H. B. Knowlton.....	527,338	Oct. 9	1082	{ 261	69	215
Railway-switch.....	J. L. La Drière and S. I. Stone.....	525,423	Sept. 4	181	{ 262		1184
Railway-switch.....	M. Leary.....	512,887	Jan. 16	1963	466	66	399
Railway-switch.....	E. H. Leighton.....	515,122	Feb. 20	1877	471	66	1237
Railway-switch.....	G. E. Lemmon.....	531,439	Dec. 25	2414	575	69	1703
Railway-switch.....	C. L. Lincoln.....	526,978	Oct. 2	503	123	69	94
Railway-switch.....	B. F. Longmiller.....	529,126	Nov. 13	1080	261	69	863
Railway-switch.....	D. MacPherson.....	524,332	Aug. 14	619	150	68	793
Railway-switch.....	H. H. Matt.....	522,072	June 26	2352	565	67	1676
Railway-switch.....	J. N. Moehn.....	514,953	Feb. 20	1616	406	66	1191
Railway-switch.....	C. J. Mortimer.....	517,877	Apr. 10	752	188	67	150
Railway-switch.....	J. F. Ober.....	524,447	Aug. 14	901	222	68	844
Railway-switch.....	H. Polis.....	529,189	Nov. 13	1197	289	69	823
Railway-switch.....	C. B. Price.....	515,361	Feb. 27	2297	570	66	1328
Railway-switch.....	W. N. Santee and J. E. Ryan.....	524,395	Oct. 30	2913	705	69	595
Railway-switch.....	A. F. Schinner.....	514,037	Feb. 6	101	25	66	873
Railway-switch.....	A. F. Schinner.....	527,293	Oct. 9	1012	246	69	202
Railway-switch.....	E. C. Seward.....	522,603	July 10	1093	269	68	222
Railway-switch.....	W. F. Stedman.....	515,135	Feb. 20	1900	477	66	1242
Railway-switch.....	R. E. Terry.....	522,359	July 3	313	80, 81	68	62
Railway-switch.....	D. F. Vaughan.....	521,743	June 19	1756	416	67	1550
Railway-switch.....	J. I. Vernon.....	522,568	July 3	671	{ 170	68	130
Railway-switch.....	T. D. Willever.....	527,188	Oct. 9	831	{ 171		170
Railway-switch.....	C. F. Wilson.....	519,464	May 8	946	229	67	733
Railway-switch.....	J. C. Woolverton.....	517,090	Mar. 27	2284	538	66	1927
Railway-switch and car-replacing mechanism. Combined.....	A. S. Debose.....	530,022	Nov. 27	2670	641	69	1185
Railway-switch and locomotive attachment for operating same.....	W. Holliday and T. F. Rawls.....	528,880	Nov. 6	656	157	69	766
Railway switch and signal.....	S. S. Heim.....	521,611	June 19	1538	360	67	1507
Railway switch and signal apparatus.....	L. C. Norton and L. A. Devine.....	517,392	Mar. 27	2814	{ 657	66	2031
Railway switch and trolley. Electric.....	F. S. Perrin.....	522,388	July 3	369	{ 658		73
Railway-switch. Automatic.....	W. J. Coughlin.....	515,655	Feb. 27	2760	688	66	1418
Railway-switch. Automatic.....	C. Dietz.....	526,100	Sept. 18	1352	{ 314	68	1422
Railway-switch. Automatic.....	J. M. Dixon.....	528,533	Nov. 6	15	{ 315		649
Railway-switch. Automatic.....	C. F. Duval.....	528,867	Nov. 6	637	151	69	763
Railway-switch. Automatic.....	D. B. Hart.....	513,781	Jan. 30	3419	843	66	777
Railway-switch. Automatic.....	J. H. McDonough and R. S. Williams.....	513,716	Jan. 30	3328	822	66	760
Railway-switch. Automatic.....	O. E. Seifert.....	518,281	Apr. 17	1455	364	67	299
Railway-switch. Automatic.....	L. Washington and W. H. Roberts.....	521,518	June 19	1376	320	67	1479
Railway-switch. Automatic.....	F. W. Wittkowski.....	524,187	Aug. 7	370	88	68	729
Railway-switch. Automatically-operated.....	G. W. Carpenter.....	524,885	Aug. 21	1566	382	68	977
Railway switch. City.....	J. Shutt.....	519,741	May 15	1431	345	67	832
Railway-switch. Electric.....	R. A. Baldwin.....	529,011	Nov. 13	895	211	69	829
Railway-switch. Electric.....	C. M. Fitch.....	516,731	Mar. 20	1671	396	66	1795
Railway-switch. Electric.....	W. M. and W. C. Henderson.....	514,850	Feb. 13	1460	367	66	1147
Railway-switch. Electrically-operated.....	W. S. Gavey.....	517,743	Apr. 3	554	135	67	107
Railway-switch frog.....	R. T. Walldrep.....	529,983	Nov. 27	2582	622	69	1166
Railway-switch. Interlocking.....	J. Wrigley.....	511,921	Jan. 2	332	78	66	63
Railway-switch lock.....	W. H. Elliott.....	526,619	Sept. 25	2248	538	68	1603
Railway switch-point. Street.....	H. S. Smith.....	523,154	July 17	1695	424	68	351

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Railway switch-red	J. Carnes	518,020	Apr. 10	1008	253	67	202
Railway-switch. Shifting	H. E. Lowe	516,100	Mar. 6	5-6	137	66	1562
Railway-switch signal	J. Wayland	531,348	Dec. 25	2245	535	69	1670
Railway-switch stand	E. M. Robinson	525,159	Aug. 28	2067	504 } 505 }	68	1033
Railway switch. Street	C. Coughlin	529,646	Nov. 20	2009	481	69	1051
Railway switch. Street	J. C. Jacobs, A. Keil, and J. H. Roemer.	526,152	Sept. 18	1444	337	68	1439
Railway switch. Street	W. E. Murray, D. W. and G. W. Hatfield.	522,914	July 10	1264	313	68	254
Railway-switches by screw action. Apparatus for working	C. Moderegger	513,520	Jan. 30	2988	737	66	698
Railway switches. Device for operating street	C. E. R. Christensen	524,540	Aug. 14	986	242 } 243 }	68	858
Railway-switches. Pneumatic system of and apparatus for handling	J. W. Thomas, Jr	520,812	June 5	93	21, 22	67	1215
Railway switching device	H. L. Walton and W. A. Griffiths	531,080	Dec. 18	1747	417	69	1563
Railway system. Conduit electric	J. B. Brand	521,010	June 5	463	111	67	1280
Railway system. Conduit electric	O. A. Enholm	525,539	Sept. 4	376	92	68	1220
Railway system. Electric	F. B. Badt	525,490	Sept. 4	273	67	68	1202
Railway system. Electric	C. S. Bradley	525,690	Sept. 11	635	149	68	1281
Railway system. Electric	A. C. Crehore	523,396	July 24	2109	530 } 531 }	68	443
Railway system. Electric	R. M. Hunter	523,313	July 17	1973	496	68	402
Railway system. Electric	P. W. Leffler	514,718	Feb. 13	1240	308 } 309 } 310 }	66	1105
Railway system. Electric	D. Mason	519,794	May 15	1521	370 } 371 }	67	849
Railway system. Electric	D. Mason	530,192	Dec. 4	202	50	69	1252
Railway system. Electric	N. Tesla	514,972	Feb. 20	1619	413	66	1197
Railway system. Electric	E. Thomson	516,666	Mar. 20	1554	370	66	1775
Railway system. Electric	C. D. Tisdale	517,940	Apr. 10	855	215	67	178
Railway system. Electric	C. D. Tisdale	518,293	Apr. 17	1477	369	67	303
Railway system. Electric	T. B. and H. Wilcox	524,366	Aug. 14	702	171	68	806
Railway system. Electric	T. B. and H. Wilcox	524,368	Aug. 14	705	172	68	806
Railway systems. Electric machine for	E. Deming	523,465	Oct. 30	3039	737	69	617
Railway systems. Electromagnetic contact-making device for electric	T. B. and H. Wilcox	524,367	Aug. 14	704	172	68	806
Railway systems. Substructural support for	J. D. Reed	526,054	Sept. 18	1270	294	68	1408
Railway-terminal transfer and switch yard	J. D. Millar	517,110	Mar. 27	2314	545	66	1934
Railway-tie	N. Benjamin	524,999	Aug. 28	1780	434 } 435 }	68	1032
Railway-tie	R. Dinsmore	517,447	Apr. 3	60	13	67	14
Railway-tie	J. Dyson	516,001	Mar. 6	434	100	66	1533
Railway-tie	J. C. Lee	513,792	Jan. 30	3435	848	66	780
Railway-tie	J. Neafie	517,585	Apr. 3	274	63	67	54
Railway-tie	A. C. Petzman	515,551	Feb. 27	2602	614	66	1366
Railway-tie	S. A. Roake and F. G. Smith	515,409	Feb. 27	2374	589	66	1343
Railway-tie anchor. Metal	R. E. Daniels	522,974	July 17	1375	342	68	292
Railway-tie bower	J. A. Orr	517,014	Mar. 20	2121	501	66	1881
Railway-tie. Metal	A. E. Roberts	517,302	Mar. 27	2633	618 } 619 }	66	1996
Railway-tie. Metallic	E. L. Taylor	524,359	Aug. 14	687	167 } 168 }	68	803
Railway-tie. Metallic	E. L. Taylor	524,360	Aug. 14	688	168	68	803
Railway-tie. Metallic	E. L. Taylor	525,927	Sept. 11	1059	240	68	1356
Railway-tie plate	W. W. Holmes	514,465	Feb. 13	821	208	66	1025
Railway-tie plate	W. W. Holmes	514,466	Feb. 13	822	208	67	1026
Railway-tie plate	D. Servis	524,868	Aug. 21	1539	376	68	972
Railway-tie plate	W. H. Wilson	522,867	July 10	1179	294	68	239
Railway-tie plate	W. H. Wilson	523,601	Sept. 25	2219	530	68	1597
Railway-tie plate	B. Wolhaupter	530,738	Dec. 11	1174	226	69	1443
Railway-tie plate and making same	W. W. Holmes	514,467	Feb. 13	824	208	66	1026
Railway-tie puller	G. Emerling	526,520	Sept. 25	2099	500	68	1575
Railway-tie. Steel combination	J. R. Green	527,682	Oct. 16	1655	399	69	335
Railway-tie. Timber	L. C. Ingersoll	530,778	Dec. 11	1244	300	69	1457
Railway-ties. Machine for shearing wooden	E. I. Leighton	526,576	Sept. 25	2179	521	68	1529
Railway time-indicator	C. Worth	517,943	Apr. 10	859	216	67	179
Railway time-signal	A. C. Gordon	526,032	Sept. 18	1231	284 } 285 }	68	1401
Railway-torpedo	E. G. Shortt	530,906	Dec. 11	1437	341	69	1492
Railway-track	N. Gunderson	512,877	Jan. 16	1948	462	66	395
Railway-track	M. G. Hubbard	515,431	Feb. 27	2418	599	66	1351
Railway-track	A. C. Mather	530,113	Dec. 4	66	19	69	1227
Railway-track	A. J. Moxham	531,446	Dec. 25	2431	578	69	1706
Railway-track	W. R. Smith	528,309	Oct. 30	2770	669	69	570
Railway-track and car	C. C. Burton	518,565	Apr. 17	1955	483	67	388
Railway-track brace	H. Greer	527,429	Oct. 16	1337	326	69	278
Railway-track crossing-frog	V. N. McGee and M. W. Mansfield	528,786	Nov. 6	468	115	69	731
Railway-track jack	E. M. Robinson	512,750	Jan. 16	1703	407	66	349
Railway-track lifter. Adjustable	M. Lillis	512,726	Jan. 16	1648	396	66	338
Railway-track liner	D. Richardson	525,117	Aug. 28	1995	488	68	1070
Railway-track sander	W. G. Middleton	524,783	Aug. 21	1395	340	68	947
Railway-track-sanding apparatus	C. W. Sherburne. (Reissue)	11,424	July 3	680	173	68	132
Railway-track structure	P. Hevner	517,277	Mar. 27	2586	606	66	1957
Railway-track structure	E. Samuel	521,004	June 5	454	108	67	1278
Railway-track structure	J. H. White	520,469	May 29	2667	645	67	1092
Railway track-sweeper	G. M. Brill	513,230	Jan. 23	2438	601 } 602 }	66	568
Railway track-switch. Electric	A. F. Schinner	527,294	Oct. 9	1015	247	69	203
Railway-track tie-plate	J. A. Harris	514,828	Feb. 13	1418	358	66	1139
Railway-tracks. Construction of	T. H. Gibbon	523,340	July 24	2026	509	68	428
Railway tracks. Intersecting electric	M. Lowd	528,959	Nov. 13	809	189	69	814

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Railway-tracks. Preventing the creeping of rails on.	A. Gross.....	512,817	Jan. 16	1836	435	66	374
Railway-tracks, &c. Vegetation-burner for.....	E. Dawson and J. O. Thomas.....	526,300	Sept. 18	1700	400 401 642 643	68	1487
Railway-train gate.....	J. Wayland.....	520,464	May 29	2658	643	67	1091
Railway-train protecting device.....	W. Reeves.....	527,540	Oct. 16	1422	346	69	273
Railway-trains. Electric signaling apparatus for.....	W. H. Baker.....	523,847	July 31	2925	729	68	607
Railway-trains. Electric signaling between.....	J. J. Czepull.....	515,145	Feb. 20	1921	482	66	1246
Railway trains or vehicles. Apparatus for controlling the movement of.....	F. E. Kinsman.....	520,062	May 22	1958	479	67	945
Railway-trains. Steam-heating system for.....	G. H. Titcomb.....	522,681	July 10	867	214	68	183
Railway-trains. Water-service system for.....	J. McNaughton.....	525,025	Aug. 28	1826	445	68	1041
Railway trolley. Conduit.....	J. L. Creveling.....	522,655	July 10	821	205	68	174
Railway trolley. Conduit.....	W. E. Delabarre, F. M. Frazer, and R. A. Carrick.....	530,828	Dec. 11	1313	316	69	1470
Railway trolley. Conduit.....	J. C. Hawley and W. J. Black.....	530,688	Dec. 11	1093	265	69	1429
Railway trolley. Conduit.....	R. J. Hewett.....	525,835	Oct. 2	268	65	69	51
Railway trolley. Conduit.....	W. Lawrence.....	520,758	May 29	3157	764	67	1182
Railway trolley. Electric.....	T. M. Brown.....	520,156	May 22	2146	523	67	978
Railway trolley. Electric.....	F. S. Church.....	517,028	Mar. 27	2164	513	66	1905
Railway trolley. Electric.....	E. Dawson.....	525,886	Sept. 11	1001	225	68	1346
Railway trolley. Electric.....	R. A. Grant.....	526,897	Oct. 2	383	95	69	71
Railway trolley. Electric.....	G. W. Hooper.....	518,952	May 1	25	7	67	541
Railway trolley. Electric.....	G. W. Mackenzie.....	513,023	Jan. 16	2182	520	66	438
Railway trolley. Electric.....	W. Van Benthuyssen.....	512,923	Jan. 16	2026	480	66	410
Railway trolley. Electric.....	C. J. Van Depoele.....	515,308	Feb. 20	2198	545	66	1299
Railway-turntable. Electric.....	R. M. Hunter.....	520,527	May 29	2764	669	67	1109
Railway-turntable. Electrically-operated.....	H. E. Danzenbaker.....	517,000	Mar. 20	2100	497	66	1876
Railway. Underground-conduit.....	W. F. Jenkins.....	517,749	Apr. 3	563	137 138	67	109
Railway. Underground electric.....	H. B. Nichols and F. H. Lincoln.....	529,406	Nov. 20	1592	379	69	976
Railway-vehicle skid.....	J. Barthelmess.....	519,624	May 8	1244	298	67	785
Railway. Wagon.....	T. M. Galbreath.....	516,327	Mar. 13	965	227 228	66	1649
Railway water-tank.....	T. J. Prosser.....	528,110	Oct. 23	2417	585	69	491
Railway weed-mower.....	F. J. Case.....	511,732	Jan. 2	20	5, 6	66	7
Railway. Wire.....	C. G. Hutchinson.....	515,333	Feb. 27	2259	560	66	1321
Railway-work. Motor-suspension for.....	E. W. Rice, Jr.....	524,117	Aug. 7	249	58	68	707
Railways. Apparatus for automatic fog signaling on.....	H. F. Clark.....	523,424	July 24	2157	542 543	68	451
Railways. Automatic safety-grip for inclined.....	O. M. Smith.....	527,894	Oct. 23	2021	486	69	418
Railways. Automatic switch for electric.....	W. S. Wright and J. E. Venns.....	526,985	Oct. 2	515	126	69	97
Railways. Auxiliary signaling system for.....	M. S. Conly.....	528,122	Oct. 23	2437	590	69	494
Railways. Block system for electric.....	J. W. Gibboney.....	516,806	Mar. 20	1774	419	66	1814
Railways. Block system for trolley.....	W. F. Lewis.....	520,323	May 22	2421	589	67	1030
Railways. Carriage for elevated.....	J. N. Valley.....	530,809	Dec. 11	1284	310	69	1465
Railways. Closed conduit for electric.....	C. I. Greer.....	522,894	July 10	1225	304 305	68	248
Railways. Closed conduit for electric.....	F. L. King.....	529,797	Nov. 27	2257	538 539	69	1105
Railways. Closed conduit for electric.....	W. Lawrence.....	516,631	Mar. 13	1490	353 354	66	1746
Railways. Closed conduit for electric.....	P. Plodeck, Sr.....	520,938	June 5	346	84	67	1260
Railways. Closed conduit for electric.....	H. A. Seymour.....	514,134	Feb. 6	246	60	66	900
Railways. Closed conduit for electric.....	W. E. Stearns.....	528,494	Oct. 30	3024	748	69	626
Railways. Closed conduit for electric.....	C. D. Tisdale.....	526,463	Sept. 25	2021	452	68	1560
Railways. Conduit supply system for electric.....	H. Alexander.....	521,326	June 12	1017	240	67	1395
Railways. Conduit system for electric.....	W. G. Creighton.....	525,945	Sept. 11	1082	246 247	68	1360
Railways. Contact device for overhead electric.....	J. L. Blackwell.....	529,354	Nov. 20	1484	357	69	958
Railways. Contacting device for electric.....	D. F. Graham and W. P. Allen.....	519,328	May 8	711	175 176	67	689
Railways. Contrivance for diminishing the danger to foot-passengers from street.....	F. Jernetz and F. Jeniczek.....	519,911	May 15	1703	415 416	67	884
Railways. Controlling-switch for electric.....	P. Lange and B. G. Lamme.....	518,693	Apr. 24	2171	543 544	67	442
Railways. Converter system for electric.....	G. Westinghouse, Jr., and C. F. Scott.....	520,975	June 5	404	97	67	1270
Railways. Distribution system for electric.....	J. E. Goodhand.....	518,782	Apr. 24	2335	579	67	471
Railways. Electric cab-signal for.....	E. C. Wiley.....	526,598	Sept. 25	2214	529	68	1596
Railways. Electric danger-signal for.....	A. B. Murray.....	524,947	Aug. 21	1669	408 409	68	995
Railways. Electric safety appliance for.....	E. L. Orcutt.....	531,214	Dec. 18	2001	475	69	1609
Railways. Electric time-signal for.....	R. D. Patterson.....	525,277	Aug. 28	2258	550	68	1119
Railways. Metallic cross-tie for.....	C. Coleman and R. de Saussure.....	529,679	Nov. 20	2059	493	69	1061
Railways. Pointsman's indicator for.....	J. Lord and T. R. Leason.....	526,536	Sept. 25	2118	507	68	1578
Railways. Rail-bond connector for electric.....	H. R. Keithley.....	512,711	Jan. 16	1628	391	66	335
Railways. Self-lubricating contact-bar for electric.....	F. W. N. E. Hayn.....	530,416	Dec. 4	591	147	69	1323
Railways. Span-wire for overhead electric.....	S. H. Short.....	513,426	Jan. 23	2800	686	66	629
Railways. System of electric block-signals for.....	W. M. Cuthbert.....	527,267	Oct. 9	965	234 235	69	194
Railways. System of elevated and surface.....	C. H. Barrows.....	517,535	Apr. 3	191	43, 44	67	39
Railways. Transformer system for electric.....	M. Hutin and M. Leblanc.....	527,857	Oct. 23	1956	470	69	406
Railways. Wire-support for overhead electric.....	A. W. Jones.....	523,216	July 3	73	16	68	15
Rain-gage. Self-recording.....	A. J. Grover.....	530,338	Dec. 4	465	116	69	1293
Rain-water flowing from roofs of houses. Apparatus for separating air from.....	R. Habermann.....	513,429	Jan. 23	2803	687	66	629
Raisin-grader.....	J. Porteous.....	524,562	Aug. 14	1029	254	68	866
Raisin-seeder.....	S. B. Bliss.....	513,704	Jan. 30	3307	815	66	756
Raisin-seeder.....	W. S. Scales.....	511,803	Jan. 2	85	22	66	20
Raisin-seeding machine.....	C. L. Spencer.....	525,432	Sept. 4	194	49	63	1187
Raisin-seeding machine.....	C. W. Thompson.....	514,689	Feb. 13	1190	297	66	1095

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Rake:							
<i>See</i> Hand-rake.	Lawn-rake.						
Hay-rake.	Rattle rake.						
Horse-rake.	Stock-rake.						
Rake.....	A. R. Dickinson.....	518,001	Apr. 10	981	244	67	197
Rake.....	A. R. Dickinson.....	519,761	May 15	1460	354	67	838
Rake.....	C. C. Quigley.....	524,215	Aug. 7	425	101	68	739
Rake attachment. Hand.....	W. Ashby.....	531,295	Dec. 25	2149	514	69	1651
Rakes and loaders with wagons. Device for connect- ing hay.....	M. Mann.....	520,532	May 29	2771	670	67	1111
Ram. Hydraulic.....	C. B. Jones and J. S. Wetmore.....	509,914	Nov. 27	2458	592	69	1144
Ram. Hydraulic.....	G. Payne.....	516,657	Mar. 20	1542	367	66	1772
Ram or engine. Hydraulic.....	W. A. Rife.....	519,970	May 15	1800	{ 442 443 }	67	901
Rams. Machine for maintaining air-pressure in chambers of hydraulic.....	H. Ingham.....	521,167	June 12	735	174	67	1343
Ramie or like material to fiber. Reducing.....	J. P. A. Blaye.....	523,509	July 24	2324	.....	68	479
Ramie or other fibrous growths. Apparatus for treating.....	W. T. Forbes.....	519,422	May 8	882	214	67	721
Ramie-treating apparatus.....	W. T. Forbes.....	519,422	May 8	882	213	67	721
Range and gas-stove. Combined cooking.....	R. R. Finch and T. J. Hodgkins.....	514,919	Feb. 20	1570	{ 394 395 }	66	1182
Range-boiler.....	G. Booth.....	516,073	Mar. 6	550	128	66	1555
Range. Cooking.....	H. J. Wattles.....	515,415	Feb. 27	2385	591	66	1345
Range-finding. Method of and apparatus for.....	B. A. Fiske.....	523,721	July 31	2697	668	68	564
Range. Gas cooking and water-heating.....	B. S. Koll.....	522,903	July 10	1243	308	68	251
Range or cooking-cabinet. Gas.....	F. C. De Prengal.....	530,509	Dec. 11	783	193	69	1374
Range-tank.....	J. J. Malley.....	530,700	Dec. 11	1114	270	69	1432
Ranges, heaters, &c. Means for lighting gas.....	C. H. Page, Jr.....	521,915	June 26	2066	496	67	1625
Ranges, stoves, or heaters. Fire-box and grate for.....	A. R. Isaacs.....	518,457	Apr. 17	1778	442	67	353
Rasp.....	S. D. Hedge.....	524,141	Aug. 7	302	71	68	717
Rasp-making machine.....	J. H. Stokes.....	521,424	June 12	1189	{ 282 283 }	67	1428
Ratchet-drill.....	W. R. Bonham.....	515,395	Feb. 27	2355	575	66	1340
Ratchet-drill. Double-acting.....	J. Meahl.....	514,127	Feb. 6	235	54, 55	66	898
Ratchet mechanism.....	W. H. Young, Jr.....	528,353	Oct. 30	2831	685	69	580
Ratchet-wrench.....	W. G. Orcutt.....	528,044	Nov. 6	225	56	69	687
Ratchet-wrench. Adjustable.....	C. H. Bernheim.....	524,412	Aug. 14	791	193	68	822
Rattle rake.....	R. Keeling.....	517,865	Apr. 10	733	184	67	156
Razor.....	H. Wolferts.....	512,596	Jan. 9	1437	346	66	283
Razor-blades, &c. Machine for hollowing.....	J. Leresche.....	517,464	Apr. 3	86	18, 19	67	18
Razor-handle.....	O. E. Fearn.....	519,250	May 1	564	137	67	646
Razor-honing machine.....	W. H. Mather.....	523,438	July 24	2183	550	68	456
Razor. Safety.....	E. Scharif.....	512,125	Jan. 2	659	157	66	126
Razor. Safety.....	E. L. Schmitz.....	519,479	May 8	978	236	67	737
Razor-sharpening machine.....	C. L. Thornton.....	525,240	Aug. 28	2200	536	68	1106
Razor-stop.....	H. Bezer.....	528,650	Nov. 6	234	58	69	688
Razor-stop.....	F. R. and O. Kampfe.....	524,828	Aug. 21	1476	360	68	962
Razor-stop composition.....	J. Hesel.....	519,533	May 8	1092	262	67	758
Razor-strops. Machine for grooving.....	F. R. and O. Kampfe.....	520,851	June 5	177	38, 39	67	1229
Razor-stropping device.....	E. L. Schmitz.....	520,272	May 22	2344	569	67	1015
Razor-wiper.....	W. H. Bridgman.....	517,971	Apr. 10	918	230	67	188
Razors. Machine for concaving.....	J. J. Fiffeld.....	531,368	Dec. 25	2284	545	69	1677
Reading-case.....	T. W. McGrath.....	523,676	July 31	2609	650	68	549
Reading-stand.....	O. Nelson.....	525,356	Sept. 4	55	15	68	1161
Reamer.....	F. Hatmaker.....	530,841	Dec. 11	1333	320	69	1473
Reamer.....	C. D. Marsh and A. D. Hermance.....	525,466	Sept. 4	254	62	68	1198
Reaper.....	G. W. Murray.....	520,892	June 5	255	60	67	1244
Receipt-protector.....	A. Steiner.....	524,227	Aug. 7	439	104	68	742
Receptacle and adjustable seat. Combined.....	J. Boyd.....	530,469	Dec. 4	675	168	69	1339
Receptacle for small articles.....	T. D. Ingram.....	521,116	June 5	646	152	67	1313
Reciprocating engine.....	N. Tesla.....	514,169	Feb. 6	316	75	66	913
Reciprocating parts of machines. Way for.....	Z. G. Sholes.....	524,185	Aug. 7	368	87	68	728
Reclining-chair.....	J. C. Allen.....	514,403	Feb. 6	712	180	66	987
Reclining-chair.....	S. Chambers.....	518,751	Apr. 24	2229	569	67	461
Reclining chair.....	S. A. Chase.....	513,981	Feb. 6	13	3	66	857
Reclining chair.....	A. Hackman.....	524,716	Aug. 21	1287	315	68	927
Record. Multiple.....	K. Fenn.....	520,774	June 5	22	5	67	1200
Recorder:							
<i>See</i> Cash-recorder.	Sales-recorder.						
Electric-current re- corder.	Signal-recorder.						
Fare-recorder.	Speed-recorder.						
Manual recorder.	Telephone-call recorder.						
Pressure-recorder.	Time-recorder.						
Recorders. Actuating device for manual.....	H. M. Geiger.....	519,253	May 1	567	138	67	647
Recording device. Autographic.....	R. J. Copeland and C. H. Stoelting.....	513,558	Jan. 30	3058	{ 753 754 }	66	711
Reduction apparatus.....	T. Girvan.....	522,590	July 10	712	182	68	155
Reel:							
<i>See</i> Bolting-reel.	Flour-bolting reel.						
Clothes-line reel.	Hose-reel.						
Engineer's tape-reel.	Twine-reel.						
Fish-line reel.	Wire-reel.						
Fishing-reel.	Wire-holding ree						
Reel.....	C. S. Gooding and W. E. C. Goudey.....	527,368	Oct. 9	1135	277	69	226
Reel.....	M. E. Knight.....	521,413	June 12	1169	{ 277 278 }	67	1426
Reel.....	C. C. Partridge.....	521,245	June 12	873	206	67	1369
Reel and barrel-carrier. Combined.....	H. Miller.....	513,129	Jan. 23	2339	564	66	539
Reel and sprinkler. Combination.....	W. L. Van Horn.....	520,815	June 5	107	24	67	1216
Reel-carrier.....	E. N. Dunwiddie.....	526,692	Oct. 2	36	9	69	9
Reel-guide. Automatic.....	J. F. Wellington.....	516,715	Mar. 20	1634	389	66	1789
Reeling-machine.....	J. Carsten.....	513,083	Jan. 23	2258	545	66	522

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Reeving device.....	J. Hadfield	524,247	Aug. 7	468	110	68	747
Reflector. Adjustable.....	P. W. A. Paasch.....	519,589	May 8	1178	{ 283 234 }	67	774
Reflector and shade. Lamp.....	G. H. Bliss.....	529,105	Nov. 13	1049	253	69	857
Reflector for electric lamps.....	J. W. Turnbull.....	512,636	Jan. 9	1494	361	66	294
Reflector for electric or other lamps.....	E. Tilmann.....	524,075	Aug. 7	178	40	68	694
Reflector. Gas.....	T. Gill.....	518,594	Apr. 24	2008	499	67	413
Reflectors. Making.....	W. W. Pilkington.....	514,495	Feb. 13	871	222	66	1035
Refrigerating apparatus.....	E. W. Carleton and J. M. Odell.....	527,831	Oct. 23	1897	{ 455 456 }	69	396
Refrigerating apparatus.....	J. J. Faulkner.....	512,175	Jan. 2	743	181	66	142
Refrigerating apparatus.....	O. Kuphal.....	530,535	Dec. 11	826	205	69	1383
Refrigerating apparatus.....	W. Mild.....	511,857	Jan. 2	177	44	66	37
Reflector for lamps.....	E. Tilmann.....	521,076	Aug. 7	180	41	68	694
Refrigerating liquid.....	M. Wanner.....	522,812	July 10	1106	.....	68	225
Refrigerating-machine.....	L. Block.....	517,154	Mar. 27	2383	563	66	1947
Refrigerating-machine.....	L. Block.....	518,541	Apr. 17	1913	473	67	381
Refrigerating-machine.....	F. B. Hill.....	524,249	Aug. 7	473	{ 111 112 }	68	748
Refrigerating-machine.....	J. Levey, T. H. Butler, and C. A. MacDonald.....	520,930	June 5	336	82	67	1258
Refrigerating-machine.....	J. E. McLaughlin.....	519,730	May 15	1417	342	67	830
Refrigerating-machines. Lubricating.....	S. S. and C. W. Miles.....	525,224	Aug. 28	2174	531	68	1101
Refrigeration. Apparatus for dynamic.....	E. Hill.....	515,585	Feb. 27	2653	659	66	1397
Refrigerator.....	T. B. Ashford.....	513,860	Jan. 30	3547	874	66	804
Refrigerator.....	G. A. Bowen.....	515,647	Feb. 27	2748	685	66	1415
Refrigerator.....	R. Brand and W. Dichmann.....	523,655	Nov. 6	242	60	69	639
Refrigerator.....	T. R. Crean.....	514,914	Feb. 20	1563	392	66	1180
Refrigerator.....	J. R. Davis.....	518,096	Apr. 10	1134	256	67	223
Refrigerator.....	J. Denson.....	512,396	Apr. 17	1669	{ 412 413 }	67	338
Refrigerator.....	G. Fee.....	513,233	Apr. 17	1378	345	67	285
Refrigerator.....	G. A. Greene.....	526,225	Sept. 18	1574	369	68	1462
Refrigerator.....	J. T. Gurney and C. J. Medberry.....	514,586	Feb. 13	1046	262	66	1067
Refrigerator.....	R. Hirsh.....	519,711	May 15	1387	{ 334 335 }	67	824
Refrigerator.....	F. Jacoby.....	522,118	June 26	2427	583	67	1690
Refrigerator.....	F. Koehler, Jr.....	525,021	Aug. 28	1818	443	68	1039
Refrigerator.....	F. Lusche.....	526,812	Oct. 2	233	57	69	44
Refrigerator.....	L. B. McClanathan.....	520,685	May 29	3054	740	67	1163
Refrigerator.....	A. Schuyler.....	522,306	July 3	227	61	68	46
Refrigerator.....	L. C. Taylor.....	530,670	Dec. 11	1066	259	69	1424
Refrigerator and beer-cooler.....	L. Leyendecker.....	525,777	Sept. 11	811	185	68	1312
Refrigerator and filter. Combined.....	L. D. Sherwood.....	521,559	June 19	1443	336	67	1490
Refrigerator-car.....	F. E. Canda.....	522,105	June 26	2407	578	67	1666
Refrigerator-car.....	F. E. Canda.....	522,448	July 3	475	121	68	95
Refrigerator-car.....	F. E. Canda.....	523,512	July 24	2327	{ 585 586 }	68	480
Refrigerator-car.....	T. J. Gilmartin.....	522,112	June 26	2417	580	67	1688
Refrigerator-car.....	C. S. Hardy.....	526,969	Oct. 2	492	121	69	93
Refrigerator-car.....	M. S. Millard.....	513,194	Jan. 23	2437	589	66	558
Refrigerator-car.....	C. S. Miller and J. E. Du Bois.....	520,442	May 29	2619	634	67	1084
Refrigerator-car.....	H. B. Plant.....	523,374	July 24	2074	{ 521 522 523 }	68	436
Refrigerator-car ice-tank.....	E. R. Hutchins.....	516,352	Mar. 13	1002	238	66	1656
Refrigerator-car ventilator.....	G. F. Brown, Jr., and G. P. Hill.....	524,083	Aug. 7	192	43	68	697
Refrigerator-cars. Extensible vestibule for use in loading.....	H. C. Gardner.....	514,923	Feb. 20	1575	396	66	1183
Refrigerator. Display.....	F. U. Warner.....	515,182	Feb. 20	1977	493	66	1257
Refrigerator-door fastening.....	R. G. Chase.....	516,296	Mar. 13	911	214	66	1639
Refrigerator drip-trough.....	C. W. Hinrichs.....	525,901	Sept. 11	1021	{ 230 231 }	68	1349
Refrigerator-float.....	F. Schuberth.....	525,668	Sept. 4	583	139	68	1258
Refrigerator ice-rack.....	F. E. Ranney.....	519,432	May 8	897	216	67	724
Refrigerator-leak alarm.....	E. C. Pactow.....	531,557	Dec. 25	2612	625	69	1741
Refrigerator or butter-cooler.....	O. M. Whitman.....	525,148	Nov. 13	1120	271	69	870
Refrigerator-shelf.....	J. Schambroe.....	525,723	Sept. 11	697	162	68	1292
Refrigerators. Cooling.....	T. Scheffler.....	523,412	July 21	2140	537	68	448
Refuse. Means for treating city.....	E. L. Ransome.....	524,688	Aug. 14	1227	300	68	904
Regenerating-furnace.....	S. M. Trapp.....	523,083	July 17	1554	390	68	326
Regenerative furnace.....	A. Laughlin and J. Reuleaux.....	529,556	Nov. 20	1871	{ 445 446 }	69	1025
Regenerative furnace.....	W. Swindell.....	524,915	Aug. 21	1611	395	68	985
Regenerative furnace.....	M. Wanner.....	517,991	Apr. 10	962	240	67	194
Register:							
See Autographic register.	Hot-air register.						
Billiard or pool register.	Hotel-register.						
Billiard time-register.	Key-register.						
Car-register.	Lumber-register.						
Cash-register.	Odometer-register.						
Electrically-operated register.	Pocket-register.						
Fare-register.	Pool-register.						
Flare-register.	Pressure-gage register.						
	Sales-register.						
	Telephone-call register.						
	Type-writer word-register.						
Register.....	W. M. Dvas.....	525,887	Sept. 11	1002	226	68	1346
Register.....	C. C. Fields.....	528,509	Oct. 30	3108	754	69	631
Register.....	F. H. Lindington.....	519,130	May 1	340	80	67	603
Register for baskets, &c.....	A. B. Culver.....	522,455	July 3	436	123	68	97
Register for counting the strokes of pistons, &c.....	F. L. Wolfe.....	526,884	Oct. 2	356	88	69	67
Register for rotations of vehicle-wheels, &c.....	H. D. Studabaker.....	521,682	June 19	1657	389	67	1530

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Registers. Air moistening and purifying attachment for	H. Ilkowizi.....	526,653	Sept. 25	2309	552	68	1613
Registers. Air-moistening attachment for hot-air	H. Ilkowizi.....	526,923	Oct. 2	428	106	69	80
Registers. Mechanical movement for engine	F. L. Wolfe.....	526,885	Oct. 2	357	89	69	67
Registering device. Electrical	F. von Hofner-Altenack.....	513,612	Jan. 30	3144	772	66	726
Registering measures of liquids. Device for	F. Gerau.....	519,181	May 1	434	106	67	621
Registering mechanism	C. P. Gott.....	517,115	Mar. 27	2322	546 547	66	1935
Regulating device	R. Thury.....	529,570	Nov. 20	1895	451	69	1030
Regulating device. Automatic	J. W. Upson.....	523,250	July 17	1872	470	68	383
Regulator:							
<i>See</i> Belt-regulator.	Feed-regulator.						
Boiler water-regulator.	Feed-water regulator.						
Chimney-regulator.	Gas-regulator.						
Chute-regulator.	Heat-regulator.						
Current-regulator.	Lamp-wick regulator.						
Damper-regulator.	Locomotive draft-regulator.						
Draft-regulator.	Motor-regulator.						
Dynamo-regulator.	Piano-action regulator.						
Electric-circuit regulator.	Pressure-regulator.						
Electric-current-regulator.	Pump-regulator.						
Electric-current-regulator.	Speed-regulator.						
Electric-machine regulator.	Speed and power regulator.						
Electric-motor regulator.	Tank-regulator.						
Electric-motor regulator.	Temperature-regulator.						
Electric-motor regulator.	Windmill-regulator.						
Rein-guard	C. Allen.....	523,258	July 17	1888	474	68	386
Rein-holder	D. D. Horton.....	523,769	July 31	2779	689	68	579
Rein-holder	T. J. Weir.....	515,634	Feb. 27	2728	679	66	1412
Rein holder. Overcheck	C. L. Leonard.....	527,796	Oct. 23	1848	444	69	388
Rein-support	E. W. Craine.....	519,666	May 8	1309	312	67	796
Rein-support	C. E. Ford.....	531,173	Dec. 18	1926	458	69	1596
Rein-support	F. B. Van Loan.....	513,162	Jan. 23	2389	577	66	549
Rein-supporter	R. Stanhope.....	530,134	Dec. 4	98	26	69	1233
Relay	F. M. Locke.....	512,650	Jan. 9	1539	369	66	303
Relay	H. S. L. Verley.....	519,142	May 1	356	85	67	607
Relay. Quadruplex neutral	C. D. Haskins.....	523,119	July 17	1629	408	68	340
Release-hook. Safety	J. U. Beckeman.....	518,131	Apr. 10	1187	297	67	233
Releasing device	H. Lahann.....	519,815	May 15	1552	380	67	856
Relishing-machine	O. F. Amsden.....	518,017	Apr. 10	1002	251 252	67	201
Remedies. Preparing topical	O. Tropelowitz.....	527,906	Oct. 23	2042	...	69	423
Rendering lard by hot air. Apparatus for	A. Wild.....	524,012	Aug. 7	74	16	68	676
Rendering-tank	A. White.....	526,091	Sept. 18	1337	311	68	1419
Resiliometer	C. E. Hadley.....	524,546	Aug. 14	1004	247	68	862
Resonator. Tubular	E. M. Gerry.....	527,488	Oct. 16	1336	325	69	278
Respiration. Apparatus for producing artificial	W. F. Z. Desant.....	514,448	Feb. 13	777	199	66	1017
Respiration. Device for producing	J. M. Pressey.....	517,491	Apr. 3	111	25	67	23
Respirator	H. Simons.....	531,011	Dec. 18	1630	387	69	1542
Respirator holding-ring	H. N. Fraser.....	512,952	Jan. 16	2076	492	66	418
Retaining or lowering apparatus	T. H. and E. Gardner.....	519,110	May 1	290	69, 70	67	591
Retinuing bath-tubs	D. B. Hilton.....	526,836	Oct. 2	270	...	69	51
Retort. Inclined	K. M. Mitchell.....	524,857	Aug. 21	1533	372	68	969
Retorts. Bench for inclined	K. M. Mitchell.....	524,856	Aug. 21	1531	372	68	969
Retorts. Device for removing can-holding crates from	W. W. Abbott and J. Green.....	524,696	Aug. 21	1251	309	68	921
Reverberatory and regenerative furnace	E. F. Gray.....	518,523	Apr. 17	1883	467	67	376
Reverberatory furnace	M. J. Murdoch.....	525,113	Aug. 28	1990	487	68	1069
Revoluble screen	D. E. Phillips.....	520,571	May 29	2836	685	67	1123
Revoluble screen	D. E. Phillips.....	523,993	Aug. 7	45	10	68	670
Revolver	G. P. Blow.....	514,696	Feb. 13	1200	299 300	66	1098
Revolver	C. Foehl.....	530,759	Dec. 11	1207	294	69	1449
Revolver	J. T. Smith.....	530,730	Dec. 11	1161	281	69	1440
Revolver	O. E. Smith.....	528,263	Oct. 30	2685	647	69	555
Revolver-casings. Machine for counterboring barrels of	E. M. Couch.....	530,823	Dec. 11	1306	315	69	1469
Revolver-cylinder	J. Lamm.....	522,472	July 3	510	130	68	102
Revolver-cylinders. Machine for counterboring chambers of	E. M. Couch.....	530,824	Dec. 11	1307	315	69	1469
Revolver. Double-barreled	C. von Pecker.....	524,743	Aug. 21	1327	324 325	68	934
Revolver-lock mechanism	D. B. Wesson.....	520,468	May 29	2065	644	67	1092
Revolver with knife attachment	L. L. Picard.....	529,877	Nov. 27	2395	574	69	1133
Revolvers. Cylinder-actuating mechanism for	E. M. Conch.....	516,476	Mar. 13	1221	293	66	1696
Revolvers. Cylinder-pin catch for	J. Rourke.....	519,675	May 15	1651	402	67	874
Revolvers. Swinging cylinder and trigger-lock for	D. B. Wesson.....	517,152	Mar. 27	2377	562	66	1946
Revolving chair	J. M. Morgan.....	519,806	May 15	1636	398	67	871
Revolving chair	J. M. Morgan.....	526,045	Sept. 18	1257	291	68	1405
Rheostat	B. E. Baker.....	521,843	June 26	1933	463	67	1598
Rheostat	B. E. Baker.....	526,605	Sept. 25	2331	532	68	1599
Rheostat	J. T. Birch.....	514,301	Feb. 6	567	142	66	900
Rheostat	G. A. Brown.....	515,280	Feb. 20	2142	532	66	1288
Rheostat	A. C. Dinkey.....	518,365	Apr. 17	1625	400	67	329
Rheostat	J. P. B. Fiske.....	518,236	Apr. 17	1381	346 347	67	286
Rheostat	J. C. Fyfe.....	528,539	Nov. 6	24	7, 8	69	650
Rheostat	A. B. Herrick.....	524,382	Aug. 14	723	176	68	811
Rheostat	J. B. Lyon.....	515,241	Feb. 20	2081	517	66	1276
Rheostat	D. Macfarlan.....	526,867	Oct. 2	330	81	69	62
Rheostat	H. McNulta.....	516,217	Mar. 13	790	184	66	1616
Rheostat	W. Meredith.....	513,126	Jan. 23	2333	562	66	538
Rheostat	A. J. Shaw.....	515,254	Feb. 20	2101	522	66	1279

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Rheostat.....	A. J. Shaw.....	515,304	Feb. 20	2193	544	66	1297
Rheostat.....	A. J. Shaw.....	517,770	Apr. 3	598	147	67	116
Rheostat.....	A. J. Shaw.....	527,730	Oct. 16	1732	418	69	350
Rheostat.....	A. J. Shaw.....	528,893	Nov. 6	674	162	69	770
Rheostat.....	A. J. Shaw.....	528,894	Nov. 6	675	163	69	770
Rheostat.....	T. W. Shelton.....	530,727	Dec. 11	1157	221	69	1440
Rheostat.....	M. Waddell.....	528,243	Oct. 30	2653	640	69	549
Rheostat and heater.....	R. C. Mitchell.....	528,907	Nov. 6	718	169	69	778
Rheostat. Automatic.....	R. W. Hollis.....	531,617	Dec. 25	2712	650	69	1761
Rheostat. Automatic.....	C. J. Sturgeon.....	513,626	Jan. 30	3171	779	66	731
Rheostat. Automatic.....	B. C. Van Emon.....	513,350	Jan. 23	2687	652	66	607
Ribbon-feed-reversing mechanism.....	C. E. Johnson.....	526,783	Oct. 2	191	45.46	69	36
Ribbon-holder.....	A. E. Hartzell.....	516,051	Mar. 6	519	121	66	1549
Ribbon-reverse. Automatic.....	F. P. Stiles.....	530,365	Dec. 4	512	127	69	1308
Ribbons. Machine for reeling, measuring, and severing type-writer or other.....	R. G. Hopkins.....	524,068	Aug. 7	200	44.45	68	398
Riding, amusement, and instructing device.....	W. J. and F. E. Gordon.....	525,596	Sept. 4	462	111	68	1238
Riding-habit.....	F. Schafer.....	521,478	June 19	1305	304	67	1466
Rifle. Flume.....	S. A. Baggs.....	519,981	May 15	1819	446	67	905
Rifles. Method of and dies for the manufacture of band-forgings for military.....	C. E. Bailey and G. F. Bowen.....	526,266	Sept. 18	1666	394	68	1480
Ring:							
ee Clew-ring. Key-ring.							
Curtain-ring. Respirator holding-ring.							
Curtain-pole ring. Saddle girth-ring.							
Ear-ring. Suspension-ring.							
Finger-ring. Teething-ring.							
Galvanic ring. Thread-cutting ring.							
Ring-expanding tool.....	H. V. Bernhardt.....	516,180	Mar. 13	725	170	66	1603
Ring for exhibiting and judging dogs, &c.....	G. G. Cleather and P. J. Gibson.....	516,858	Mar. 20	1867	442	66	1833
Ring-frame spindle.....	E. Gessner.....	525,200	Aug. 28	2139	522	68	1094
Ring-gage.....	W. F. Doll.....	517,096	Mar. 27	2295	541	66	1930
Ring gage. Finger.....	E. Gruebel.....	524,589	Aug. 14	1064	263	68	873
Ring-making machine.....	F. Mossberg.....	525,961	Sept. 11	1124	255	68	1368
Rings. Manufacturing ornamented.....	H. V. Bernhardt.....	512,676	Jan. 16	1568	377	66	323
Ripping-knife.....	E. Van Valkenburg.....	525,477	Sept. 4	269	66	68	1201
Riprap-mattress.....	D. Neale.....	517,879	Apr. 10	755	189	67	160
Rivet-setting machine.....	H. H. Cummings.....	513,634	Jan. 30	3183	781	66	733
Rivet-setting machine.....	E. M. Pope.....	523,730	July 31	2709	671	68	566
Rivets, studs, &c. Manufacturing.....	W. S. Wilson.....	522,247	July 3	127	30	68	24
Riveting. Dolly-bar for.....	N. D. Yant.....	528,118	Oct. 23	2433	588	69	493
Riveting-machine.....	P. A. Cuenot.....	530,162	Dec. 4	146	38	69	1242
Riveting-machine.....	C. P. Higgins.....	524,325	Aug. 14	609	146	68	791
Riveting-machine.....	C. P. Higgins.....	524,326	Aug. 14	610	147	68	791
Riveting-machine.....	E. Saltzkorn and L. Nicolai.....	517,172	Mar. 27	2421	569	66	1955
Riveting-machine.....	J. J. Unbehend.....	519,782	May 15	1497	362	67	845
Riveting-machine.....	J. J. Unbehend.....	523,024	July 17	1469	363	68	308
Road-trap.....	S. P. Burgess.....	529,109	Nov. 13	1052	254	69	857
Road-cleaning machine. Pneumatic.....	J. J. Astor.....	514,805	Feb. 13	1380	347	66	1132
Road-crusts. Machine for breaking up.....	A. J. Henderson.....	513,708	Jan. 30	3316	819	66	758
Road-machine.....	J. F. Kimball.....	527,610	Oct. 16	1532	372	69	312
Road making and repairing machine.....	M. G. Bunnell.....	511,997	Jan. 2	445	104	66	85
Road-roller. Steam.....	E. T. Wright.....	524,628	Aug. 14	1138	279	68	888
Road worker and scraper.....	O. W. Stearns.....	518,473	Apr. 17	1805	447	67	362
Roads. Machine for making or repairing.....	M. G. Bunnell.....	515,744	Mar. 6	17	5	66	1458
Roads, streets, &c., and blocks therefor. Constructing.....	J. S. Winter.....	511,870	Jan. 2	199	50	66	42
Roadway and vehicle therefor.....	E. O' Evans.....	512,174	Jan. 2	742	180	66	142
Roaster:							
See Coffee-roaster. Ore-roaster.							
Meat-roaster. Peanut-roaster.							
Roaster.....	N. H. Jensen.....	525,905	Sept. 11	1026	232	68	1350
Roasting and calcining kiln.....	L. Houze.....	519,063	May 1	210	49	67	576
Roasting apparatus for peanuts, &c.....	C. Cretors.....	516,919	Mar. 20	1971	463	66	1851
Roasting coffee, cocoa, &c. Apparatus for.....	C. A. Otto.....	517,189	Mar. 27	2451	577	66	1960
Roasting-furnace.....	E. B. Goodwin.....	527,746	Oct. 16	1758	423	69	354
Roasting-furnace.....	F. Roger.....	523,650	July 24	2351	639	68	523
Robe-holder.....	F. E. Woodruff.....	519,399	May 8	847	205	67	714
Robe, towel, &c., for heating. Electric.....	H. G. O'Neill.....	530,053	Nov. 27	2735	656	69	1197
Rock-break and ore-granulator. Combined.....	H. P. Jones.....	520,317	May 22	2412	586	67	1028
Rock-breaker.....	S. Jackson.....	526,654	Sept. 25	2310	552	68	1614
Rock-breaker. Subaqueous.....	P. S. Ross.....	517,556	Apr. 3	230	52.53	67	45
Rock-crusher.....	H. L. Kent.....	513,114	Jan. 23	2314	557	66	534
Rock-crusher.....	C. E. Wyman.....	517,717	Apr. 3	512	124	67	99
Rock-drill.....	A. E. Buzzo and H. H. Thompson.....	512,154	Jan. 2	713	173	66	136
Rock-drill.....	E. S. Currier.....	527,669	Oct. 16	1630	392	69	331
Rock-drill.....	W. H. Dixon.....	524,993	Aug. 21	1760	429	68	1013
Rock-drill.....	H. P. and G. B. Jones.....	531,043	Dec. 18	1625	400	69	1552
Rock-drill.....	G. W. Pickett.....	519,202	May 1	469	114	67	628
Rock-drill.....	G. W. Pickett.....	519,290	May 1	627	115	67	659

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Rock-drill.....	J. H. Smith.....	520,619	May 29	2912	704	67	1138
Rock-drill tripod.....	S. W. Douglass and A. J. Sypher.....	512,016	Jan. 2	480	114	66	92
Rock-drills or broken or detached drill-rods, &c., from bore-holes. Grab for lifting cores formed by tubular.....	P. A. Craelius.....	529,781	Nov. 27	2230	531	69	1101
Rock-drills. Rotating device for.....	H. C. Sergeant.....	522,623	July 10	775	196	68	166
Rock-drills. Stand for supporting.....	J. McCulloch.....	513,365	Jan. 23	2712	658	66	611
Rock drilling and boring machine.....	I. N. Day.....	517,815	Apr. 3	664	166	67	129
Rock drilling and splitting.....	G. M. Githens.....	517,689	Apr. 3	464	112	67	89
Rock-drilling machine.....	M. Beal.....	531,431	Dec. 25	2385	570	69	1697
Rock or ore breaker.....	R. D. Gates.....	525,144	Aug. 28	2036	499 500	68	1080
Rock or ore crusher.....	R. D. and P. W. Gates.....	530,102	Dec. 4	41	12	69	1223
Rocker. Child's.....	J. Davis.....	516,368	Mar. 13	1047	249	66	1663
Rocking-chair.....	G. C. H. Kaltwasser.....	529,273	Nov. 13	1347	322	69	910
Rocking-chair.....	J. Kottmann.....	524,279	Aug. 7	522	122	68	755
Rocking-chair.....	J. R. McIlvried.....	516,548	Mar. 13	1345	321	66	1719
Rocking-chair.....	J. R. McIlvried.....	516,549	Mar. 13	1345	321	66	1719
Rocking-chair.....	T. W. Wigg.....	529,004	Nov. 13	879	207	69	826
Rod: See Curtain-rod. Violoncello-rod. Stadia-rod.							
Rod adjuster. Polished.....	F. M. Kennedy.....	531,264	Dec. 18	2090	501	69	1625
Rod and ring machine. Universal.....	J. Banwell.....	526,673	Oct. 2	5	2	69	4
Rod-mill floor.....	G. Leiberger.....	517,224	Mar. 27	2505	588	66	1971
Rod or pipe coupling. Hollow.....	S. M. Jones.....	528,167	Oct. 30	2517	609	69	524
Rod or slat machine.....	D. Hepp.....	514,750	Feb. 13	1298	393 324	66	1116
Rod-support for screw or other machines.....	C. E. Roberts.....	526,790	Oct. 2	201	47	69	38
Rods. Machine for straightening.....	P. M. Haas.....	518,403	Apr. 17	1680	415 416	67	340
Roll-holder.....	W. H. Lewis.....	525,786	Sept. 11	809	185	68	1312
Roll-holder camera.....	E. B. Barker.....	518,802	Apr. 24	2369	587	67	476
Roll-holders. Tension-spool for.....	T. M. Clark.....	530,327	Dec. 4	445	111	69	1295
Roll-holding camera.....	A. Delug.....	521,563	June 19	1448	337 338	67	1491
Roll-holding camera. Folding.....	D. H. Houston.....	526,445	Sept. 25	1985	473	68	1554
Rolls. Driving live.....	M. Garland.....	530,533	Dec. 4	454	114	69	1297
Rolls for side-bearing suspension-rails.....	P. Eckel.....	517,687	Apr. 3	462	111	67	89
Roller: See Antifriction-roller. Road-roller. Land-roller. Shade-roller. Paving-roller.							
Roller-mill.....	J. W. Vaughan.....	526,795	Oct. 2	209	50	69	39
Roller-mill feed device.....	J. Seiberth.....	528,037	Oct. 23	2249	552	69	467
Roller-press.....	S. Tuttle.....	522,243	July 3	116	27, 28	68	22
Rolling angle-bars. Machine for.....	A. L. Hammarberg and A. Berglöf.....	519,452	May 8	925	223 224	67	729
Rolling apparatus.....	L. D. York.....	528,200	Oct. 30	2574	623	69	534
Rolling apparatus. Beam.....	F. H. Kindl.....	520,060	May 22	1953	478	67	944
Rolling apparatus. Beam.....	F. H. Kindl. (Reissue).....	11,454	Nov. 20	2076	497	69	1064
Rolling brake-shoe key-blanks into shape. Machine for.....	G. H. Judy.....	522,717	July 10	927	232	68	194
Rolling car-wheel tires. Machine for.....	W. E. Williams.....	527,038	Oct. 2	600	145	69	113
Rolling machine. Metal.....	G. L. Hart.....	524,547	Aug. 14	1007	248	68	862
Rolling machine. Sheet-metal.....	W. R. Kinnear.....	515,402	Feb. 27	2364	587	66	1341
Rolling metal.....	T. Morrisou.....	522,763	July 10	1035	256	68	211
Rolling-mill.....	J. Fawell and J. Hemphill.....	525,263	Aug. 28	2228	542 543 544	68	1112
Rolling-mill.....	J. Hemphill, J. F. Wilcox, and J. Fawell.....	525,207	Aug. 28	2149	524 525	68	1096
Rolling-mill.....	S. V. Huber.....	529,124	Nov. 13	1075	259 260	69	862
Rolling-mill.....	S. Johnston.....	531,042	Dec. 18	1683	399	69	1552
Rolling-mill.....	J. G. Laurie.....	513,332	Jan. 23	2657	644	66	601
Rolling-mill.....	G. G. McMurtry and L. G. Stitt.....	526,195	Sept. 18	1521	356	68	1452
Rolling-mill.....	R. G. Wood.....	517,716	Apr. 3	510	123	67	99
Rolling-mill appliance.....	J. M. Price.....	525,027	Aug. 28	1829	445 446	68	1042
Rolling-mill. Continuous.....	W. H. Maddock.....	515,917	Mar. 6	288	67 68 69	66	1507
Rolling-mill coupling device.....	S. M. Guss.....	524,715	Aug. 21	1286	315	68	926
Rolling-mill edging-guide.....	T. Morrison.....	520,935	June 5	342	83	67	1259
Rolling-mill feed mechanism.....	S. V. Huber.....	526,447	Sept. 25	1992	474 475	68	1555
Rolling-mill guide.....	P. L. Day.....	514,447	Feb. 13	770	199	66	1017
Rolling-mill housing.....	S. T. Williams.....	522,641	July 10	801	200	68	170
Rolling mill. Metal.....	W. E. Harris.....	517,747	Apr. 3	560	137	67	109
Rolling mill. Plate.....	W. H. Maddock.....	530,112	Dec. 4	63	17, 18	69	1227
Rolling-mill roll-bearing.....	H. W. Thomas.....	526,466	Sept. 25	2019	481	68	1559
Rolling-mill rolls. Attachment for adjusting.....	C. Townsend.....	523,296	July 17	1944	489	68	396
Rolling mill. Taper.....	C. B. Andrews.....	517,322	Mar. 27	2066	625 626	66	2002
Rolling-mill transfer-table.....	F. H. Treat.....	516,460	Mar. 13	1198	287 288	66	1692
Rolling mill. Tube.....	C. G. Larson.....	526,157	Sept. 18	1450	339	68	1440
Rolling-mills. Automatic stop for.....	T. Morrison.....	512,207	Jan. 2	792	192	66	150
Rolling-mills. Bar-piling mechanism for.....	W. A. Sweet.....	512,458	Jan. 9	1929	297	66	244
Rolling-mills. Means for adjusting rolls for.....	O. Klatte.....	530,949	Dec. 18	1518	360	69	1522
Rolling mills. Support for mandrel-rolls of tube.....	C. G. Larson.....	528,676	Nov. 6	283	68, 69	69	697
Rolling-pin and dough-cutter. Combined.....	C. S. Goodnough.....	522,465	July 3	504	128	68	100
Rolling sheet metal. Method of and apparatus for.....	S. A. Davis.....	530,094	Dec. 4	30	9	69	1221

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. gr.	Vol.	Page.
Roof. Board	J. P. Brownlee	530,009	Nov. 27	2650	636	69	1182
Roof-covering and manufacture thereof. Waterproof.	W. D. Rohbé	512,520	Jan. 9	1324	320	66	262
Roof fastening. Metallic.	J. O. Pew	521,572	June 19	1468	343	67	1495
Roof-framing tool	J. Parkhill	516,575	Mar. 13	1393	331	66	1729
Roof or floor. Fireproof	T. A. Lee	513,795	Jan. 30	3439	849		
Roof or floor. Fireproof	T. A. Lee	517,576	Apr. 3	263	61	67	51
Roof-templet	H. W. Nichols	525,611	Sept. 4	483	115	68	1242
Roofs. Bracket for staging on shingle.	G. L. Wilder	527,572	Oct. 16	1470	358	69	301
Roofs. Grappling device for	D. J. Donovan	530,165	Dec. 4	150	39	69	1242
Roofs or masonry. Composition of matter for coating	J. Daymon	515,859	Mar. 6	204		66	1491
Roofing	L. H. Montross	511,859	Jan. 2	180	44	66	38
Roofing	J. C. H. Schultz	522,330	July 3	266	70	68	54
Roofing. Anchor for sheet-metal	G. M. Patton	517,963	Apr. 10	909	227	67	187
Roofing. Combination	C. H. Dana	526,994	Oct. 2	529	130	69	99
Roofing, &c. Composite material for	E. M. Pritchard	513,247	Jan. 23	2530	610	66	577
Roofing implement	F. G. Caldwell	524,594	Nov. 20	1930	460	69	1037
Roofing. Metallic	W. H. Mullins	520,370	May 22	2506	607	67	1047
Roofing. Metallic	W. H. Mullins	520,371	May 22	2508	607	67	1048
Roofing-plate	P. Norton	527,505	Oct. 16	1364	332	69	282
Roofing-plate. Metal	R. Friedel	525,098	Aug. 28	1966	481	68	1064
Roofing. Sheet-metal	E. D. Bevirt	518,089	Apr. 10	1121	283	67	220
Roofing. Sheet-metal	W. T. Holzbach	511,775	Jan. 2	52	13		
Roofing-tool	C. H. Dana	526,995	Oct. 2	530	130	69	100
Roofing. Vegetable-fiber	G. McTear	523,544	July 10	2378	597	68	490
Root-cutter	O. E. Thompson	529,219	Nov. 13	1249	300	69	892
Root-cutter and stump-extractor	E. E. Kirven	520,363	May 22	2498	604	67	1046
Rope-catch, fire-escape, and climbing apparatus. Automatic	A. W. Lewin	512,977	Jan. 16	2113	502	66	425
Rope-clamp	J. Allenson	522,575	July 24	689	175	68	151
Rope-clamp	G. M. Mullen	529,933	Nov. 27	2485	599	69	1148
Rope-coupling	A. Wenk-Volf and O. Strohbach	513,746	Jan. 30	3371	831	66	767
Rope-driving apparatus	J. H. Hoadley	525,209	Aug. 28	2153	526	68	1097
Rope-grip	C. N. Blood	525,481	Sept. 4	274	67	68	1202
Rope-grip	A. K. Evans	518,880	Apr. 24	2489	617	67	499
Rope-hauling machine	W. B. Lantz	512,040	Jan. 2	519	123	66	100
Rope-hauling machine	W. B. Lantz	531,318	Dec. 25	2196	525	69	1661
Rope. Jumping-	W. J. Patterson	512,483	Jan. 9	1273	306	66	252
Rope-laying device	E. M. Ivens	523,577	July 24	2428	609	68	500
Rope or wire holder	E. P. Slentz	523,292	July 17	1936	486		
Rope. Skipping-	E. E. Denler	512,815	Jan. 16	1833	434	66	374
Rope take-up	W. Smith	516,555	Mar. 13	1361	323	66	1722
Ropeway clip. Elevated.	W. R. Wiggins	526,092	Sept. 18	1339	311	68	1419
Rose and escutcheon. Combined	C. R. Uhlmann	530,562	Dec. 11	879	216	69	1391
Rosin-pad for use on bows of stringed instruments	H. H. Heskett	520,946	Dec. 11	1515	359	69	1521
Rotary bolt	T. Stevens	520,364	Dec. 4	511	126	69	1308
Rotary cutter	J. Ettinger	529,113	Nov. 13	1058	255	69	859
Rotary cutter	J. Ettinger	529,114	Nov. 13	1060	255	69	859
Rotary cutter	J. Ettinger	529,115	Nov. 13	1061	256	69	859
Rotary cutter	H. P. Fairfield	518,917	Apr. 24	2559	633	67	512
Rotary drier	H. Rich	522,767	July 10	1040	256	68	212
Rotary engine	W. G. Adams	530,982	Dec. 18	1578	374	69	1532
Rotary engine	D. F. Allen	530,874	Dec. 11	1384	330	69	1482
Rotary engine	A. R. Benn	520,554	May 29	2810	678	67	1118
Rotary engine	K. Billing	524,882	Aug. 21	1562	382		
Rotary engine	T. L. Blackwell	526,801	Oct. 2	215	52	69	41
Rotary engine	T. B. Boyle	527,933	Oct. 23	2091	500	69	432
Rotary engine	F. Brackemann	522,145	June 26	2480	594		
Rotary engine	J. V. Davis	516,431	Mar. 13	1143	274	66	1682
Rotary engine	A. Hampe	518,812	Apr. 24	2390	591	67	480
Rotary engine	T. Harding	513,232	Jan. 23	2497	603	66	570
Rotary engine	D. Hoagland	512,883	Jan. 16	1959	464	66	398
Rotary engine	H. P. Holland	521,541	June 19	1416	328		
Rotary engine	G. M. Hull	516,538	Mar. 13	1332	317	66	1716
Rotary engine	F. M. Mackey	525,558	Sept. 4	404	97	68	1226
Rotary engine	F. M. Mackey	525,559	Sept. 4	408	98	68	1227
Rotary engine	T. Martin, F. Priestley, and L. D. Pierson	516,542	Mar. 13	1337	319	66	1718
Rotary engine	J. F. McElroy	525,793	Sept. 11	819	187	68	1314
Rotary engine	F. B. Merrill	511,964	Jan. 2	398	93	66	76
Rotary engine	C. P. Moore and F. B. McGrew	515,350	Feb. 27	2279	565	66	1325
Rotary engine	O. E. Morse	529,289	Nov. 13	1369	329	69	914
Rotary engine	G. W. Morthland	518,465	Apr. 17	1793	444	67	361
Rotary engine	R. Nadeniczek	518,327	Apr. 17	1536	382		
Rotary engine	R. Z. Pooler	516,022	Mar. 6	469	108	66	1539
Rotary engine	L. Sivertson	528,493	Oct. 30	3081	747	69	626
Rotary engine	W. Smith	517,965	Apr. 10	945	237		
Rotary engine	F. D. Sweet	531,481	Dec. 25	2482	591	69	1715
Rotary engine	S. P. M. Tasker	518,635	Apr. 24	2070	516		
Rotary engine	J. C. Walker	515,631	Feb. 27	2724	678	66	1411
Rotary engine	G. H. Weston	516,385	Mar. 13	1072	254		

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Rotary engine.....	B. M. Wilkinson.....	518,436	Apr. 17	1741	432	67	351
Rotary engine or pump.....	C. C. Knauss and J. E. Krause.....	519,156	May 1	392	94	67	613
Rotary motor.....	O. Arnold.....	531,246	Dec. 18	2059	492	69	1619
Rotary motor.....	A. Clément.....	525,532	Sept. 4	353	87	68	1217
Rotary motor.....	A. Delattre and F. Brückert.....	530,220	Dec. 4	255	63	69	1362
Rotary motor.....	G. Heinicke.....	518,145	Apr. 10	1208	303	67	236
Rotary steam-engine.....	W. M. Barnes.....	517,513	Apr. 3	159	35	67	32
Rotary steam-engine.....	W. M. Byrd.....	516,729	Mar. 20	1667	395	66	1794
Rotary steam-engine.....	W. M. Byrd.....	517,790	Apr. 3	627	157	67	122
Rotary steam-engine.....	W. M. Byrd.....	523,958	July 31	3121	{ 776 777 }	68	645
Rotary steam-engine.....	C. V. Divan, Fils.....	521,950	June 26	2141	{ 512 513 }	67	1639
Rotary steam-engine.....	J. N. Hartzell.....	523,280	July 17	1915	482	68	391
Rotary steam-engine.....	R. N. Ink.....	524,763	Aug. 21	1363	332	68	940
Rotary steam-engine.....	J. A. Johnson.....	522,296	July 3	212	57	68	43
Rotary steam-engine.....	S. C. Shepard.....	525,121	Aug. 28	2000	489	68	1071
Rotary steam-engine.....	W. Smith.....	517,986	Apr. 10	948	338	67	192
Rotary steam-engine.....	H. Staub.....	530,908	Dec. 11	1441	{ 342 343 }	69	1493
Rotary steam-engine.....	H. Williams and T. L. Fisher.....	518,299	Apr. 17	1483	371	67	304
Rotary steam-engine. Compound.....	W. G. Florence and J. H. Bennett.....	525,341	Sept. 4	26	6	68	1156
Rotary steam-engine. Reciprocating.....	F. W. Reeves.....	523,053	July 17	1510	{ 377 378 }	68	317
Rotary trimmer.....	A. S. Vose.....	528,311	Oct. 30	2773	669	69	570
Rotating stand.....	A. Baldwin.....	530,877	Dec. 11	1394	332	69	1484
Roundabout.....	J. Armitage, A. and G. C. Herschell.....	531,403	Dec. 25	2338	{ 557 558 }	69	1688
Roundabout.....	H. D. Gardy.....	527,962	Oct. 23	2153	518	69	443
Roundabout.....	G. Kay, F. Wilkinson, and I. Rushworth.....	512,710	Jan. 16	1627	{ 390 391 }	66	334
Roundabout.....	W. G. Schafhirt.....	511,910	Jan. 2	310	72	66	60
Roundabout. Observation.....	W. Wyand.....	512,429	Jan. 9	1171	284	66	233
Routing-machine.....	C. Schraubstadter, Jr., and C. R. Schilling.....	527,025	Oct. 2	579	140	69	109
Roving-frame.....	M. Campbell.....	531,156	Dec. 18	1890	449	69	1539
Roving-frames. Adjusting means for belt-shifting mechanism of.....	M. Campbell.....	525,531	Sept. 4	351	86, 87	68	1216
Row-boat.....	M. F. Davis.....	521,536	June 19	1408	325	67	1484
Row-boat.....	G. Vogel.....	528,702	Nov. 6	319	78	69	704
Rowlock.....	J. T. Ish.....	524,171	Aug. 7	350	83	68	725
Rubber and stocking. Lumberman's.....	M. D. Girard.....	528,473	Oct. 30	3049	740	69	619
Rubber article. Hollow.....	E. L. Perry.....	521,246	June 12	874	207	67	1369
Rubber articles. Manufacturing hard.....	J. Thomson.....	520,196	May 22	2213	539	67	991
Rubber articles. Vulcanizing hard.....	H. Traun.....	528,264	Oct. 30	2686	.....	69	556
Rubber. Composition of matter for vulcanizing.....	J. M. Raymond.....	518,046	Apr. 10	1057	.....	67	210
Rubber compounds. Treating plastic.....	W. Cable.....	526,483	Sept. 25	2043	486	68	1563
Rubber-dam clamp.....	J. W. Ivory.....	513,328	Jan. 23	2651	643	66	600
Rubber-mixing mill.....	E. F. Bragg.....	530,157	Dec. 4	134	36	69	1240
Rubber mold or pattern and manufacturing same.....	M. Smith.....	516,028	Mar. 6	479	111	66	1541
Rubber molds and patterns. Apparatus for the manufacture of.....	M. Smith.....	516,029	Mar. 6	482	{ 111 112 }	66	1541
Rubber, &c. Process of and composition for manufacturing substitutes for india-rubber or polishing machine.....	A. A. Blandy.....	522,312	July 3	235	.....	68	47
Rubbering or polishing machine.....	C. S. Yarnell.....	528,199	Oct. 30	2573	622	69	534
Rudder-lock.....	H. L. Bowdoin.....	523,618	July 24	2498	628	68	512
Rugs, &c. Apparatus for making.....	R. J. Grubb.....	527,971	Oct. 23	2171	522	69	446
Rule and ruling device.....	G. Harvey.....	530,043	Nov. 27	2703	649	69	1192
Rule. Calculating.....	E. F. Steck.....	515,978	Mar. 6	394	92	66	1526
Rule. Calculating.....	E. F. Steck. (Reissne).....	11,450	Oct. 23	2463	596	69	499
Rule. Draftsman's.....	F. W. Altpeter.....	521,597	June 19	1513	354	67	1502
Rule. Draftsman's.....	F. W. Altpeter.....	530,741	Dec. 11	1178	287	69	1443
Rule. Extension-cane.....	T. E. Tracy.....	516,513	Mar. 13	1993	307	66	1709
Rule-gage.....	J. J. McManns.....	515,550	Feb. 27	2601	644	66	1356
Rule. Plumb.....	F. Holt.....	519,576	May 8	1161	280	67	771
Rule. Plumb.....	F. Holt.....	525,213	Aug. 28	2159	527	68	1099
Rule. Slide.....	T. H. Johnson.....	520,114	May 22	2050	501	67	963
Rule. T-square.....	M. R. Jewell.....	518,760	Apr. 24	2229	571	67	464
Ruler.....	F. Frank.....	515,522	Feb. 27	2553	633	66	1377
Ruler.....	M. R. Jewell.....	518,758	Apr. 24	2228	571	67	463
Ruler. Blackboard.....	B. W. Ahne.....	523,719	July 31	2694	667	68	564
Ruler. Parallel.....	C. H. Beeler, Jr.....	523,259	July 17	1889	475	68	386
Ruling device.....	J. Grundy.....	528,476	Oct. 30	3052	{ 740 741 }	69	620
Ruling device. Parallel.....	A. B. Dick.....	516,477	Mar. 13	1222	283	66	1696
Ruling-machine ink-fountain.....	R. N. B. Petersen.....	519,025	May 1	139	34	67	563
Running-gear.....	A. H. Sensenig.....	514,507	Feb. 13	892	{ 226 227 }	66	1039
Rust from iron or steel. Composition for removing.....	A. Buecher.....	524,085	Aug. 7	197	.....	68	397
Saccharine juices. Purifying.....	G. G. Tiemann.....	518,538	Apr. 17	1909	.....	67	680
Saccharine solutions. Process of and apparatus for defecating.....	E. W. Deming.....	531,460	Dec. 25	2451	{ 583 584 }	69	1710
Saccharine solutions. Purification and decoloration of.....	P. H. Vander Weyde and O. Lugo.....	512,133	Jan. 2	669	160	66	128
Sack-fastener.....	A. S. Procter.....	518,574	Apr. 17	1968	486	67	391
Sad-iron.....	H. B. F. Barker.....	525,579	Sept. 4	438	104	68	1232
Sad-iron.....	W. Blankner.....	524,304	Aug. 14	571	136	68	784
Sad-iron.....	H. M. Cooley.....	530,885	Dec. 11	1405	334	69	1426
Sad-iron.....	P. C. Greenawalt.....	528,366	Oct. 30	2262	693	69	586
Sad-iron.....	W. J. Platt.....	523,236	July 17	1840	463	68	377
Sad-iron.....	B. Rein.....	513,728	Jan. 30	3345	826	66	763
Sad-iron.....	B. Rein.....	530,653	Dec. 11	1039	253	69	1419
Sad-iron.....	M. V. Trube.....	520,583	May 29	2859	692	67	1128
Sad-iron.....	M. Tverdal.....	513,743	Jan. 30	3367	830	66	767

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Sad-iron handle	H. A. Sheffield	522,678	July 10	858	213	68	181
Sad-iron handles. Machine for making	J. Banwell	526,672	Oct. 2	3	1	69	3
Sad-iron heater	W. R. Lee	518,370	Apr. 17	1634	403	67	331
Sad-iron heater	E. L. Reid	516,338	Mar. 13	980	233	66	1652
Sad-iron seam-pressing attachment	N. G. Davis	524,133	Aug. 7	285	66	68	714
Sad-iron. Steam	J. Mandot	514,601	Feb. 13	1052	263	66	1068
Saddle	W. H. Hall	523,789	July 31	2808	698	68	585
Saddle attachment	C. W. Leupold	515,239	Feb. 20	2078	516	66	1275
Saddle-blanket	J. L. Torrey	530,864	Dec. 11	1370	327	69	1480
Saddle. Gig	C. A. White	518,435	Apr. 17	1739	432	67	351
Saddle girth-ring	I. H. Reed	521,552	June 19	1435	333	67	1489
Saddle. Harness	T. J. Houghton	513,396	Jan. 23	2762	673	66	621
Saddle. Harness	J. L. Koch	523,669	July 31	2598	647	68	548
Saddle. Harness	H. Lane	526,716	Oct. 2	79	21	69	17
Saddle. Harness	C. M. Lemke	522,185	June 26	2542	610	67	1713
Saddle. Harness	J. A. Miller and J. H. Warmoth	529,287	Nov. 13	1366	327	69	913
Saddle. Riding	J. M. Martin	526,133	Sept. 18	1411	329	68	1433
Safe	C. E. Clark	517,261	Mar. 27	2562	601	66	1982
Safe	G. J. H. Goehler	524,941	Aug. 21	1662	407	68	993
Safe	E. N. Gower, Jr	512,022	Jan. 2	487	116	66	94
Safe. Bank-	D. M. Rothenberger	523,946	July 31	3103	772	68	641
					773		
					348		
Safe boltwork	E. W. Fowler	526,181	Sept. 18	1488	349	68	1446
					350		
Safe-door book-rack	H. M. Schmidt	515,535	Feb. 27	2577	638	66	1381
Safe. Express-messenger's	J. Campbell	529,779	Nov. 27	2228	531	69	1100
Safe-lock	A. G. Burton and D. S. Covert	522,103	June 26	2402	577	67	1685
					578		
Safe-lock	G. L. Damon	522,153	June 26	2493	598	67	1703
					599		
Safe-lock	W. H. Hollar	518,453	Apr. 17	1771	439	67	357
Safe lock-box	J. E. C. Hill	516,650	Mar. 20	1527	363	66	1769
Safe-locking mechanism	C. O. Yale	521,842	June 26	1931	463	67	1598
Safes. Electrical protection for	C. F. A. Sturts	516,239	Mar. 13	827	193	66	1622
Safes. Electrical recording device for	R. A. Newlyn	529,938	Nov. 27	2491	601	69	1150
Safety apparatus	H. K. Whitner	519,365	May 8	788	193	67	704
Safety-bolt	P. Burns	521,458	June 19	1273	296	67	1460
Safety-brake	K. A. Maynard	513,432	Jan. 23	2808	688	66	630
Safety fender or trap	G. Blakistone	513,703	Jan. 30	3305	814	66	756
Safety-gate	F. W. Young	526,211	Sept. 18	1552	364	68	1458
Safety-lock	G. Bergevin	525,250	Aug. 28	2211	538	68	1108
					539		
Safety-pin	W. Bechtold	516,997	Mar. 20	2097	496	66	1876
Safety-pin	C. A. Bryant	531,458	Dec. 25	2448	583	69	1709
Safety-pin	M. Frisen	513,563	Jan. 30	3071	755	66	713
Safety-pin	M. J. Griffin	515,214	Feb. 20	2029	506	66	1266
Safety-switch	A. Johnson and W. S. Campbell	518,607	Apr. 24	2022	502	67	416
					503		
Safranin azo naphthol. Dimethyl	P. Julius	524,252	Aug. 7	480	.....	68	749
Safranin azo naphthol lake	P. Julius	524,254	Aug. 7	482	.....	68	749
Safranin azo naphthol. Soluble	P. Julius	524,251	Aug. 7	478	.....	68	749
Sagger	H. Brunt	523,928	July 31	3059	763	68	632
Sail for vessels	T. W. Ratsey	517,193	Mar. 27	2457	578	66	1961
Sails. Reefing	S. G. Martin	527,340	Oct. 9	1085	262	69	216
					263		
Sales-check case	W. M. Kinnard	531,551	Dec. 25	2599	622	69	1738
					623		
Sales-recorder and check-printer. Manual	J. P. Cleal	515,517	Feb. 27	2539	630	66	1374
					631		
Sales-recorder. Manual	H. C. Cooper	527,667	Oct. 16	1626	392	69	330
Sales-recorder. Manual	A. C. Hough	530,993	Dec. 18	1594	378	69	1535
Sales-register. Manifolding	W. Assheton	530,876	Dec. 11	1391	331	69	1484
					332		
Sales-slip	F. J. Shepherd and M. B. Flagg	526,002	Sept. 11	1185	271	68	1379
Sales-slip case. Memorandum	W. M. Kinnard	514,938	Feb. 20	1592	400	66	1186
Sales-slip case. Memorandum	W. M. Kinnard	514,939	Feb. 20	1595	401	66	1187
Sales-slip package. Memorandum	W. M. Kinnard	531,317	Dec. 25	2194	525	69	1661
Salicyl-anilid	S. Radlauer	526,258	Sept. 18	1626	.....	68	1473
Salt and pepper distributor	C. M. Berry	518,559	Apr. 17	1940	479	67	386
Salt-evaporator	T. Craney	525,757	Sept. 11	756	175	68	1302
Salt-holder for cattle	H. A. Lee	518,819	Apr. 24	2399	592	67	481
					593		
Sample-case	W. R. Parison	524,560	Aug. 14	1021	253	68	866
Sampler for grain, minerals, &c	T. Clarkson	518,915	Apr. 24	2554	631	67	512
					632		
Sand-band	W. M. Farr	526,075	Sept. 18	1312	304	68	1415
Sand-blast apparatus	J. E. Mathewson	531,379	Dec. 25	2301	549	69	1681
Sand-blast machine	J. A. Shoemaker	523,907	July 31	3016	750	68	624
					751		
Sand-distributer	H. Moorhouse	517,055	Mar. 27	2223	527	66	1915
Sand mold	S. J. Adams	521,448	June 19	1245	294	67	1455
Sand mold	S. J. Adams	521,449	June 19	1247	294	67	1455
Sand mold	S. J. Adams	521,451	June 19	1256	294	67	1456
Sand mold	S. J. Adams	521,452	June 19	1260	295	67	1457
Sand mold	S. J. Adams	521,453	June 19	1264	295	67	1458
Sand mold	S. J. Adams	521,454	June 19	1267	295	67	1458
Sand mold	S. J. Adams	521,753	June 19	1788	424	67	1554
Sand mold and runner	S. J. Adams	520,101	May 23	2026	495	67	958
Sand molds. Apparatus for forming	S. J. Adams	521,450	June 19	1250	294	67	1456
Sand molds. Apparatus for forming	S. J. Adams	523,502	July 24	2313	582	68	477
Sandpaper-cylinders. Device for adjusting	J. L. Perry	531,273	Dec. 18	2105	505	69	1627
Sandpapering-machine	H. N. Range	522,918	July 10	1269	314	68	256
Sandpapering-machine	C. L. Ruchs	526,845	Oct. 2	287	69	69	55

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Sandpapering-machines. Polishing-cylinder for	F. E. Schmitt	525,087	Aug. 28	1945	{ 475 476 881	{ 68	1061
Sanding and finishing machinery	M. E. Clark and M. Shebesta	513,880	Jan. 30	3582	{ 882 883	{ 66	810
Sanding device	W. Grunow, Jr.	521,467	June 19	1286	300	67	1462
Sanding device	J. Martin	527,437	Oct. 16	1251	307	69	260
Sanding device	T. J. Thomas	528,998	Nov. 13	870	206	69	825
Sanitary closet	H. H. Kendrick	525,346	Sept. 4	38	10	68	1158
Sash and blind fastener	W. H. Buckley	512,500	Jan. 9	1299	313	66	257
Sash and screen. Combined balanced window	Z. Pinard	512,624	Jan. 9	1478	356	66	290
Sash-balance	W. W. Abbott	527,760	Oct. 23	1785	430	69	377
Sash-balance	A. M. Howard	514,005	Feb. 6	48	12	66	863
Sash-balance	L. Huntington	523,473	July 24	2261	568	68	468
Sash-balance	G. Lusher	528,331	Oct. 30	2802	677	69	575
Sash-balance	W. K. Morgan	517,760	Apr. 3	580	143	67	112
Sash-balance	J. E. Parrish	513,823	Jan. 30	3481	257	66	739
Sash-balance	F. L. Rosentreter	513,278	Apr. 17	1452	363	67	298
Sash-balance	J. Sauerburger	526,945	Oct. 2	458	113	69	86
Sash-balance	V. Schirmer	516,667	Mar. 20	1587	379	66	1781
Sash-balance	D. Sinks	519,895	May 15	1681	410	67	820
Sash-balance	E. F. Smith	522,624	July 10	776	196	68	166
Sash-balance	S. B. Sutton	535,237	Aug. 28	2194	535	68	1105
Sash-balance	J. J. Totman	519,823	May 15	1562	382	67	853
Sash-balance. Electric	W. C. Hodgkins	524,250	Aug. 7	477	112	68	748
Sash-cord fastener	R. G. Barnes	515,186	Feb. 20	1983	495	66	1258
Sash-cord fastener	L. H. Mullikin	521,806	June 26	1875	449	67	1588
Sash-cord guide	C. Wolcott	514,982	Feb. 20	1660	416	66	1199
Sash-cord guide	C. Wolcott	515,809	Mar. 6	131	31, 32	66	1478
Sash-fastener	W. R. Abrams	528,059	Oct. 23	2324	{ 560 561	{ 69	474
Sash-fastener	C. C. Algeo	521,691	June 19	1670	392	67	1533
Sash-fastener	A. A. and C. P. Allen	528,707	Nov. 6	325	80	69	705
Sash-fastener	E. Ament	516,957	Mar. 20	2031	481	66	1864
Sash-fastener	U. H. Balcom	524,697	Aug. 21	1252	309	68	921
Sash-fastener	E. I. Blount	527,586	Oct. 16	1497	364	69	306
Sash-fastener	F. Burmeister	520,754	May 29	3150	763	67	1180
Sash-fastener	F. Burmeister	528,656	Nov. 6	243	60	69	690
Sash-fastener	W. E. Cline	513,882	Jan. 30	3588	883	66	811
Sash-fastener	J. F. Davis	519,905	May 15	1695	414	67	883
Sash-fastener	J. H. Dickson	528,769	Nov. 6	438	107	69	726
Sash-fastener	J. Dohal	512,647	Jan. 9	1527	366	66	301
Sash-fastener	P. C. Dolliver	517,605	Apr. 3	306	71	67	60
Sash-fastener	I. Elting	526,386	Sept. 25	1962	443	68	1532
Sash-fastener	E. R. Ferry and S. Halliwell	512,648	Jan. 9	1528	367	66	301
Sash-fastener	J. H. Foote	524,379	Aug. 14	725	176	68	810
Sash-fastener	J. G. Fox	530,266	Dec. 4	335	82	69	1277
Sash-fastener	G. C. Gardner	521,341	June 12	1063	249	67	1404
Sash-fastener	W. S. Grundy	525,599	Sept. 4	467	112	68	1239
Sash-fastener	J. H. Hottes	524,146	Aug. 7	308	73	68	718
Sash-fastener	U. A. Hoyt	526,563	Oct. 2	325	80	69	62
Sash-fastener	N. Johnson	523,530	July 24	2361	592	68	487
Sash-fastener	G. M. Kimball	518,253	Apr. 17	1409	353	67	290
Sash-fastener	J. B. Lashbrook	531,542	Dec. 25	2586	619	69	1736
Sash-fastener	J. B. Letonmean	528,728	Nov. 6	356	87	69	711
Sash-fastener	F. W. Mann	513,805	Jan. 30	3456	852	66	784
Sash-fastener	L. C. Miller	524,905	Aug. 21	1591	{ 389 390	{ 68	982
Sash-fastener	L. C. Miller	531,443	Dec. 25	2423	577	69	1705
Sash-fastener	J. F. Miltonberger, J. S. Wynant, and C. Schott	519,476	May 8	974	235	67	736
Sash-fastener	J. B. Morgan	523,227	July 17	1828	460	68	376
Sash-fastener	N. W. Mottinger	525,663	Sept. 4	577	138	68	1257
Sash-fastener	A. H. Parslow	528,208	Oct. 30	2594	626	69	537
Sash-fastener	J. and J. T. Paul	528,108	Oct. 23	2414	584	69	490
Sash-fastener	H. W. Rhoads	514,035	Feb. 6	95	25	66	872
Sash-fastener	C. H. Richter	513,418	Jan. 23	2790	683	66	627
Sash-fastener	C. Rolffes	526,262	Sept. 18	1630	383	68	1474
Sash-fastener	F. P. Sayer	512,330	Jan. 9	993	243	66	200
Sash-fastener	J. Seadler	526,268	Sept. 18	1638	386	68	1475
Sash-fastener	J. O. Sharp	526,118	Sept. 18	1387	323	68	1428
Sash-fastener	F. F. Unkrich	525,930	Sept. 11	1063	242	68	1356
Sash-fastener	G. Voll	523,090	July 17	1558	391	68	326
Sash-fastener	T. E. Wardwell	528,833	Nov. 6	577	136	69	751
Sash-fastener	T. E. Wardwell	531,453	Dec. 25	2441	581	69	1708
Sash-fastener	W. W. Webster and J. L. Hangi	512,593	Jan. 9	1433	345	66	282
Sash-fastener	D. B. Wesson	526,278	Sept. 18	1654	390	68	1478
Sash-fastener	L. Woodard	512,785	Jan. 16	1782	424	66	364
Sash-fastener	W. A. Zietzke	514,532	Feb. 13	928	235	66	1045
Sash fastener and operator	J. W. T. Gilliam	513,388	Jan. 23	2747	{ 669 670	{ 66	618
Sash fastener. Window	R. Kirsch	519,607	May 8	1207	291	67	779
Sash-holder	J. F. Bjurlund	516,173	Mar. 6	706	166	66	1585
Sash-holder	T. Choep	524,631	Aug. 14	1143	280	68	888
Sash-holder	J. Claypool	527,137	Oct. 9	752	185	69	155
Sash-holder	J. W. Evans	518,494	Apr. 17	1829	454	67	367
Sash-holder	C. E. Heil	517,695	Apr. 3	472	113	67	91
Sash-holder	C. Koeneemann	519,536	May 8	1095	263	67	759
Sash-holder	C. S. Lee	517,577	Apr. 3	265	61	67	52
Sash-holder	G. Leverett and J. Ramsay	514,328	Feb. 6	603	154	66	967
Sash-holder	T. C. Maris	525,851	Sept. 11	940	211	68	1334
Sash-holder	W. H. Masterman	518,413	Apr. 17	1699	421	67	344
Sash-holder	P. K. O'Lally	515,127	Feb. 20	1886	473	66	1239
Sash-holder	T. W. Parmele	513,439	Jan. 23	2823	693	66	632

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Draw.	Vol.	Page.
Sash-holder	G. E. Schairer	530,660	Dec. 11	1049	255	69	1421
Sash-holder	J. Weldon	526,764	Oct. 2	160	38	69	31
Sash holder and fastener	C. W. Ammerman	530,078	Dec. 4	4	2	69	1215
Sash-lift and ventilator	T. A. Blanchard	524,699	Aug. 21	1254	309	68	921
Sash-lock	J. A. Hasenpflug	527,626	Oct. 16	1659	400	69	336
Sash-lock	J. A. Hasenpflug	528,369	Oct. 30	2268	694	69	587
Sash-lock	C. A. Robert	528,892	Nov. 6	673	162	69	769
Sash-lock and burglar-alarm. Combined	J. F. Buschmann	523,459	July 24	2229	561	68	463
Sash lock and support	J. S. Henry	517,456	Apr. 3	72	15	67	16
Sash lock, lift, and balance	O. K. Gardner	522,889	July 10	1208	301	68	244
Sash lock, lifter, and holder	R. Guy and O. E. Reed	521,955	June 26	2156	517	67	1641
Sash mounting. Swinging	L. G. Abbott and T. D. Greene	531,244	Dec. 18	2056	491	69	1618
Sash. Removable window	J. Lehnbeuter	525,987	Sept. 11	1159	{ 263 364 }	68	1375
Sash. Revolving window	P. S. Riddelle	514,773	Feb. 13	1330	363	66	1122
Sash-securing device	A. Little	517,226	Mar. 27	2508	569	66	1971
Sash-weight	H. Marshall	527,151	Oct. 9	777	189	69	159
Sash-weight	G. S. Sergeant	522,498	July 3	547	140	68	108
Sash. Window	S. Fuchs	519,450	May 8	922	222	67	729
Sash. Window	C. F. Olcese	530,714	Dec. 11	1132	275	69	1435
Sashes or blinds. Frame or casing for window	P. McKenzie	528,733	Nov. 6	364	89	69	712
Satchel or bag	J. Limbacher	519,721	May 15	1401	{ 338 339 }	67	327
Satchel or bag frame	F. W. Heilmann	514,890	Feb. 13	1523	381	66	1158
Satchel. Sheet-metal	H. Macarthy	525,848	Sept. 11	935	{ 209 210 }	68	1333
Saucepan	R. B. Vanderburg	513,221	Jan. 23	2475	597	66	565
Sausages into links. Machine for forming	H. Lefebvre	526,080	Sept. 18	1318	{ 305 306 }	68	1416
Saw	J. Danielson	528,415	Oct. 30	2946	712	69	601
Saw	D. Hazard	521,343	June 12	1064	249	67	1405
Saw	E. C. Smith	526,642	Sept. 25	2226	548	68	1610
Saw	W. B. Vaughan	529,538	Nov. 20	1843	439	69	1021
Saw and resaw. Combined band rip	E. C. Mershon	526,100	Sept. 18	1453	340	68	1441
Saw attachment	R. McLane	526,255	Sept. 18	1622	381	68	1472
Saw-blades. Machine for cutting tooth-recesses in	F. J. G. Fromholt	530,407	Dec. 4	578	143	69	1321
Saw-buck	S. D. Palmer	530,601	Dec. 11	945	232	69	1404
Saw. Circular	J. E. Bott	514,207	Feb. 6	394	94	66	927
Saw. Circular	J. Little	528,602	Nov. 6	139	34	69	672
Saw-clamp	F. W. Seaver	513,831	Jan. 30	3497	861	66	793
Saw clamp. Circular	C. C. Newton	519,892	May 15	1678	{ 408 409 }	67	879
Saw. Combination hand	J. O. Johnson	514,080	Feb. 6	165	38	66	885
Saw. Drag	J. H. Blackman, Jr.	520,387	May 22	2531	612	67	1052
Saw. Drag	J. A. Geselius	520,640	May 29	2947	713	67	1144
Saw. Drag	J. B. Wetmore	516,418	Mar. 13	1122	266	66	1677
Saw-dressing machine	M. Covey	523,882	July 31	2981	{ 741 742 }	68	618
Saw-driving mechanism	C. C. Newton	530,791	Dec. 11	1260	304	69	1460
Saw filing and setting machine	J. McAllister	523,749	July 31	2746	{ 681 682 }	68	573
Saw-filing device	M. J. Wilson	531,456	Dec. 25	2145	582	69	1709
Saw-filing machine	W. B. Allen	524,234	Aug. 7	451	106	68	744
Saw-filing machine	J. N. Howard	527,332	Oct. 9	1074	259	69	213
Saw-filing machine	A. J. Neff	528,179	Oct. 30	2536	615	69	528
Saw-frame	J. Gélardin	527,845	Oct. 23	1926	463	69	401
Saw-frame	R. J. Moxley	518,420	Apr. 17	1708	425	67	345
Saw. Frame	N. H. Shaw	525,365	Sept. 4	78	21	68	1165
Saw frame. Buck	T. C. Knowles and W. J. Adams	522,470	July 3	509	129	68	101
Saw-guard	F. X. Cote and L. Corbeille	522,684	July 10	871	215	68	184
Saw-guard	C. G. Pickett	513,138	Jan. 23	2352	567	66	542
Saw-guide	A. M. Pineo	523,994	Aug. 7	47	11	68	670
Saw guide. Drag	G. M. Mize	524,964	Nov. 13	819	191	69	816
Saw guide. Gang-edger	C. H. Upton	523,298	July 17	1947	490	68	397
Saw-grinding machine	C. C. Newton	519,893	May 15	1679	409	67	879
Saw gummer or sharpener	J. E. Orlesby	529,299	Nov. 13	1388	334	69	918
Saw. Hand	W. H. Bedell	522,749	July 10	1009	250	68	206
Saw-handle	R. S. Carr	516,473	Mar. 13	1217	{ 291 292 }	66	1695
Saw-handle	M. M. Cope	529,063	Nov. 13	977	230	69	844
Saw-handle	E. J. Fulghum	522,558	July 3	653	165	68	128
Saw-handle	A. B. Van Campen	518,656	Apr. 24	2110	527	67	431
Sawhorse	C. D. Spell	522,862	July 10	1173	292	68	238
Saw-jointer	N. T. Hail	512,469	Jan. 9	1247	301	66	247
Saw machine. Drag	J. W. Calef	523,261	July 17	1891	475	68	386
Saw. Metal	C. C. Newton	523,662	July 31	2944	734	68	610
Saw. Metal	M. Odgers	530,793	Dec. 11	1262	305	69	1461
Sawmill	C. Edgar	524,135	Aug. 7	288	67	63	714
Saw mill. Band	J. Harley	512,107	Jan. 2	635	152	66	121
Sawmill-buffer	E. E. Thomas	529,218	Nov. 13	1246	300	69	892
Sawmill-carriage	M. Cox	523,227	Oct. 30	2729	659	69	563
Sawmill-carriage	E. E. Thomas	523,156	July 17	1700	427	68	352
Sawmill-carriage feed mechanism	G. M. Hinkley	515,429	Feb. 27	2144	{ 597 598 }	66	1350
Sawmill-carriages. Automatic offset mechanism for	C. Elvidge	534,779	Aug. 21	1378	338	68	945
Sawmill-carriages. Piston-rod connection for	C. H. Upton	523,299	July 17	1949	490	68	397
Saw mill. Circular	U. S. Sjöstrand and C. J. Andersson	323,241	July 17	1848	{ 465 466 467 }	68	378
Sawmill-dog	J. H. Miner	511,858	Jan. 2	178	44	66	37
Sawmill-dog	J. H. Miner	521,723	June 19	1723	408	67	1544
Sawmill-dog. Duplex	G. W. Lovrien	512,586	Jan. 9	1419	342	66	280
Sawmill-feed	C. Reiser	523,239	July 17	1844	464	68	377
Sawmill-guard	J. C. Horstmeier	525,603	Sept. 4	472	113	68	1239

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sawmills. Variable friction-feed mechanism for	W. Fleming	514,314	Feb. 6	587	146	66	963
Sawmills. Variable frictional feed for	W. E. Dillard	512,099	Jan. 2	617	148	66	119
Sawmills. Variable gear for	J. T. Oberdorfer	527,343	Oct. 9	1091	265	69	217
Saw-mitering device	J. Lumsden	512,561	Jan. 9	1381	334	66	273
Saw rounder. Circular	J. H. Lynch	523,078	July 17	1543	386	68	323
Saw safety-guard. Rip	G. A. Shields	523,262	Oct. 30	2684	647	69	555
Saw-set	D. A. Arnold	523,505	July 24	2320	584	68	479
Saw-set	J. T. Bernard	530,501	Dec. 11	756	185	69	1370
Saw-set	H. Marshall	518,260	Apr. 17	1419	355	67	292
Saw-set	W. H. Miller	519,583	May 8	1172	282	67	772
Saw-set	J. W. Packard	528,554	Nov. 6	50	13	69	655
Saw-set	C. Whitins and J. W. Wilks	519,366	May 8	790	193	67	704
Saw-set	F. X. Zahringer and J. B. Spaedy	522,869	July 10	1181	294	68	239
Saw-setting tool	J. A. Minger	524,641	Aug. 14	1158	285	68	891
Saw-sharpening machine	F. R. Bauer	518,731	Apr. 24	2256	561	67	456
Saw-sharpening machine	M. Covell	523,883	July 31	2983	742	68	618
Saw-sharpening machine	D. Hazard	518,187	Apr. 10	1280	324	67	249
Saw. Shop	W. W. Holmes	525,211	Aug. 28	2155	526	68	1098
Saw. Shop	W. W. Holmes	525,212	Aug. 28	2157	527	68	1098
Saw. Stone	M. Litchford	519,636	May 8	1262	304	67	788
Saw-straightening device	M. Covell	522,316	July 3	242	63	68	48
Saw-stretching machine. Band	W. Hollingsworth and J. Korbel	529,551	Nov. 20	1866	444	69	1024
Saw-swage	E. Apperson	516,693	Mar. 20	1597	381	66	1783
Saw-swage	C. A. Schoessel	531,222	Dec. 18	2018	481	69	1612
Saw-teeth. Device for side-dressing	G. Fritz	530,833	Dec. 11	1321	318	69	1471
Saw-teeth. Device for shaping swaged	J. F. Pribnow	514,963	Feb. 20	1632	409	66	1194
Saw-tooth. Insertible	R. Marquart	525,852	Sept. 11	942	211	68	1335
Saw-tooth. Insertible diamond	K. Marquart	519,475	May 8	973	235	67	736
Saw-tooth-sharpening machine	D. Hazard	529,789	Nov. 27	2243	534	69	1103
Saw-tooth-swaging device	D. Hazard	529,860	Nov. 27	2371	567	69	1128
Sawing apparatus. Cold	H. Ehrhardt	530,639	Dec. 11	1014	247	69	1415
Sawing blocks from logs. Machine for	F. L. Day	518,589	Apr. 24	1998	494	67	411
Sawing knife-handle blanks. Machine for	F. C. Feicker	521,608	June 19	1535	359	67	1506
Sawing-machine	F. D. Butzer	512,600	Jan. 9	1440	347	66	253
Sawing-machine	M. Garland	528,088	Oct. 23	2379	574	69	484
Sawing-machine	M. Garland and C. M. Prescott	515,734	Feb. 27	2889	721	66	1443
Sawing-machine	W. H. Geisler	535,456	Sept. 4	237	58	68	1194
Sawing-machine	J. Jilek	521,317	June 12	1004	236	67	1392
Sawing-machine	E. and L. Hedderick	525,544	Sept. 4	384	93	68	1222
Sawing-machine	J. S. Loomis	523,747	July 31	2741	680	68	572
Sawing-machine	J. H. Morrison	519,192	May 1	451	110	67	624
Sawing-machine	A. J. Robinson	529,839	Nov. 27	2337	555	69	1121
Sawing-machine	H. Young	526,477	Sept. 25	2035	485	68	1562
Sawing-machine. Circular	E. E. Thomas	518,432	Apr. 17	1735	431	67	350
Sawing-machine indicator. Veneer	W. M. Dickerson	520,037	May 22	1917	470	67	938
Sawing-machine. Log	A. L. Grinnell	530,942	Dec. 18	1504	357	69	1520
Sawing machine. Metal	C. C. Newton	524,556	Aug. 14	1021	251	68	865
Sawing machine. Pole	L. W. Noyes	529,566	Nov. 20	1889	449	69	1029
Sawing-machine. Portable	J. H. Langton	531,195	Dec. 18	1959	465	69	1602
Sawing-machine. Portable	J. A. Morrell	524,644	Aug. 14	1161	286	68	892
Sawing-machine. Twin circular	M. Garland	518,031	Apr. 10	1022	258	67	205
Sawing machine. Wood	M. C. Gilbert	512,876	Jan. 16	1947	462	66	395
Sawing-machines. Automatic feed for band	F. E. Cross	516,677	Mar. 20	1575	375	66	1778
Scaffold	E. Bonnlander	515,738	Mar. 6	4	1	66	1455
Scaffold	J. Jones	524,552	Aug. 14	1015	250	68	864
Scaffold. Adjustable	M. King	522,526	July 3	595	153	68	117
Scaffold. Adjustable bracket	R. O. Davis	530,682	Dec. 11	1083	263	69	1427
Scaffold. Adjustable portable	T. H. Wimbush	524,270	Aug. 7	505	117	68	753
Scaffold and scaffold-clamp	J. and J. G. McIntyre	529,745	Nov. 27	2174	512	69	1090
Scaffold-clamp	J. Hillengass	520,051	May 22	1942	476	67	942
Scaffold. Painter's	S. A. Brooks	530,389	Dec. 4	553	137	69	1316
Scaffold. Painter's	L. Mann and F. L. Anker	516,606	Mar. 13	1443	342	66	1737
Scalding-vats. Hog-conveyer and throw-out for	R. M. and J. Eagle	529,483	Nov. 20	1740	414	69	1002
Scale	S. S. Crompton	521,230	June 12	851	199	67	1364
Scale and coffee-case. Combined	J. T. Wheatstone and T. C. Baker	528,052	Oct. 23	2310	557	69	472
Scale and screw-jack. Combined spring	B. Lobbe	522,993	July 17	1410	352	68	297
Scale. Automatic grain	C. H. Cooley	523,246	Nov. 13	1293	311	69	900
Scale. Automatic weighing	L. Wommer	512,082	Jan. 2	592	142	66	113
Scale-beam	S. J. Austin	521,074	June 5	575	135	67	1301
Scale. Beam	F. M. Smiley	525,517	Sept. 4	328	81, 82	68	1212
Scale beam and poise for testing-machines	C. E. Buzby	529,160	Nov. 13	1139	275	69	874
Scale bearing. Platform	S. J. Austin	516,958	Mar. 20	2033	481	66	1865
Scale. Computing	H. Paddock and O. B. Johnson	528,793	Nov. 6	478	117	69	733
Scale. Computing	W. R. Stover	531,229	Dec. 18	2031	484	69	1614
Scale. Computing weighing	J. W. Cronan	524,164	Aug. 7	339	80	68	723
Scale. Druggist's weighing	E. Kelly	517,698	Apr. 3	475	114	67	91
Scale. Hydrostatic	J. H. Digeon	515,753	Mar. 6	31	9	66	1461
Scale. Letter-weighing	R. A. Dunning	512,168	Jan. 2	735	178	66	140
Scale. Micrometer	J. D. Benson	527,581	Oct. 16	1490	362	69	305
Scale. Pendulum	L. C. Farmer	513,177	Jan. 23	2411	582	66	553
Scale. Pendulum	W. J. Graves	518,545	Apr. 17	1920	474	67	382
Scale. Platform	H. L. Fisher	523,142	July 17	1677	420	68	348
Scale. Platform	M. H. Winslow	524,271	Aug. 7	507	118	68	753
Scale. Platform	L. Wommer	512,081	Jan. 2	589	141	66	112

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Scale. Postal.....	I. S. McGiehan.....	518,725	Apr. 24	2244	558	67	454
Scale. Price.....	L. F. Kepler.....	514,475	Feb. 13	836	213	66	1028
Scale. Price.....	H. E. Kottnerus.....	525,910	Sept. 11	1031	{ 233 234 }	68	1351
Scale. Price.....	O. O. Ozias.....	527,125	Oct. 9	738	181	69	152
Scale. Price.....	C. W. Smith.....	523,206	Nov. 13	1226	295	69	883
Scale. Price and weighing.....	O. O. Ozias.....	527,124	Oct. 9	734	180	69	151
Scale. Spring.....	M. H. Hansen.....	528,326	Oct. 30	2794	674	69	574
Scale. Spring.....	C. Spencer.....	530,362	Dec. 4	508	{ 125 126 }	69	1307
Scale. Weighing.....	J. Holtzhouser.....	527,427	Oct. 16	1232	302	69	257
Scale. Weighing.....	H. Paddock.....	521,623	June 19	1556	363	67	1510
Scale. Weighing.....	W. A. Wheeler.....	528,837	Nov. 6	581	138	69	751
Scale. Weighing.....	J. R. Witzel.....	530,980	Dec. 18	1576	373	69	1532
Scale. Weighing and price.....	R. A. Daniels.....	530,930	Dec. 18	1481	351	69	1516
Scales. Calculating attachment for weighing.....	E. B. Johnson.....	514,471	Feb. 13	828	210	66	1027
Scales. Check-rod for platform.....	H. Paddock.....	524,266	Aug. 7	498	115	68	751
Scales. Drop-jack for railway or platform.....	T. Gagnon.....	526,621	Sept. 25	2252	538	68	1603
Scales. Pivot-bearing for platform.....	E. Tannewitz.....	519,485	May 8	991	240	67	739
Scales. Self-register for weighing.....	O. Raney.....	523,546	July 24	2381	{ 597 598 }	68	491
Scales. Weigh-hopper for platform.....	F. W. Bond.....	523,454	July 24	2221	558	68	462
Scalpel.....	J. W. Jones.....	520,435	May 29	2609	631	67	1082
Scarf-pin.....	H. Bornstein.....	517,725	Apr. 3	522	126	67	101
Scarf-pin.....	C. C. Partridge.....	520,610	May 29	2901	701	67	1136
Scarf-pin safety device.....	M. Crohn.....	521,103	June 5	627	148	67	1310
Scholar's companion.....	F. D. Martin.....	526,110	Sept. 18	1372	320	68	1426
School-seat.....	L. Petzelt.....	513,413	Jan. 23	2785	{ 631 632 }	66	626
School seat and desk.....	L. E. Kretzmeier.....	530,950	Dec. 18	1520	360	69	1522
School seat and desk.....	T. Tobias.....	518,166	Apr. 10	1246	312	67	242
Scissors.....	C. A. Shultz.....	512,451	Jan. 9	1216	294	66	241
Scissors-holder and point-guard.....	W. Chandler.....	530,014	Nov. 27	2658	638	69	1183
Scissors or shears.....	P. Kamphaus.....	514,082	Feb. 6	169	39	66	886
Scoop.....	M. L. Schoch.....	514,038	Feb. 6	102	26	66	873
Scow. Dumping.....	P. Ciancimino and F. W. Mattocks.....	527,800	Oct. 23	1853	445	69	389
Scow. Dumping.....	W. Fallon.....	523,887	July 10	1206	300	68	244
Scow. Dumping.....	A. Williams.....	523,922	July 31	3049	761	68	630
Scraper.....	H. G. Butler.....	519,835	May 15	1583	387	67	862
Scraper.....	W. Davy.....	514,645	Feb. 13	1117	279	66	1082
Scraper.....	J. D. Libey.....	529,925	Nov. 27	2474	596	69	1146
Scraper.....	B. F. Shuart.....	520,085	May 22	2004	490	67	954
Scraper attachment. Wheeled.....	A. F. Bernard.....	526,677	Oct. 2	13	3	69	5
Scraper. Earth.....	J. Maes.....	531,128	Dec. 18	1836	436	69	1580
Scraper employed on tubes of fuel-economizers.....	E. Green.....	513,917	Jan. 30	3630	{ 894 895 }	66	819
Scraper. Kettle.....	H. F. W. Lemke.....	522,794	July 10	1079	266	68	220
Scraper-operating apparatus.....	H. G. Butler. (Reissue).....	11,435	Aug. 14	1246	308	68	906
Scraper. Road.....	M. G. Bunnell.....	520,479	May 29	2685	649	67	1095
Scraper. Road.....	M. G. Bunnell.....	520,480	May 29	2686	{ 649 650 }	67	1096
Scraper. Road.....	W. H. Diedrick.....	515,999	Mar. 6	431	99	66	1532
Scraper. Road.....	T. R. McKnight.....	518,268	Apr. 17	1438	359	67	295
Scraper. Road.....	T. R. McKnight.....	518,269	Apr. 17	1440	360	67	296
Scraper. Wheeled.....	A. F. Bernard.....	526,676	Oct. 2	11	3	69	5
Scraper. Wheeled.....	T. R. McKnight.....	529,564	Nov. 20	1885	{ 448 449 }	69	1028
Scraper. Wheeled.....	J. R. Williams.....	515,982	Mar. 6	402	93	66	1527
Scraper. Wheeled earth.....	W. E. Kilborn.....	513,464	Jan. 23	2880	708	66	643
Scraper. Automatic dumping-gear for wheeled.....	T. J. Kelly.....	529,501	Nov. 20	1774	423	69	1007
Scraper. Lock and dumping mechanism for wheeled.....	A. F. Bernard.....	516,044	Mar. 6	512	119	66	1548
Scraping machine. Earth.....	A. F. Bernard.....	526,675	Oct. 2	8	2	69	4
Scraping machine. Road.....	J. H. Hawkins.....	515,679	Feb. 27	2804	699	66	1427
Scraping or digging apparatus.....	C. Vivian.....	522,443	July 3	469	119	68	93
Screen:							
See Adjustable screen. Pulp-screen.							
Centrifugal screen. Revolvable screen							
Coal-screen. Stone-screen.							
Fly-screen. Window-screen.							
Food-screen. Window and insect screen.							
Insect-screen. Window or door screen.							
Peach-screen.							
Screen.....	L. G. Beers.....	517,724	Apr. 3	521	126	67	101
Screen.....	G. W. Cross.....	513,890	Jan. 30	3596	886	66	812
Screen.....	G. W. Cross.....	523,515	July 24	2332	587	68	421
Screen.....	G. W. Cross.....	529,605	Nov. 20	1949	463	69	1041
Screen for half-tone process.....	M. Levy.....	521,659	June 19	1614	378	67	1522
Screen-frame for windows, &c.....	A. Braun.....	515,814	Mar. 6	139	34	66	1479
Screen or sash fastener.....	M. Hauser.....	528,327	Oct. 30	2796	675	69	574
Screens. Making ornamental.....	I. E. Foltz.....	525,593	Sept. 4	458	110	68	1237
Screening apparatus.....	V. Distl and A. Susky.....	530,261	Dec. 4	323	80	69	1274
Screening apparatus.....	V. Distl and A. Susky.....	530,262	Dec. 4	325	81	69	1275
Screening-machine.....	J. E. McCracken.....	520,119	May 22	2058	503	67	964
Screw.....	R. Stilwell.....	516,134	Mar. 6	638	149	66	1572
Screw. Archimedeian.....	J. Dyson and R. H. Williamson.....	525,194	Aug. 23	2132	520	68	1093
Screw-blanks. Machine for making.....	C. D. Rogers.....	530,081	May 22	1997	{ 488 489 }	67	953
Screw blanks. Machine for threading wood.....	T. B. Smith.....	531,226	Dec. 18	2026	483	69	1613
Screw-cutting die.....	J. Hartness.....	529,169	Nov. 13	1158	279	69	877
Screw-cutting die.....	F. I. Maule.....	512,983	Jan. 16	2122	504	66	427
Screw-cutting die. Separable.....	R. Dost.....	530,166	Dec. 4	151	40	69	1243
Screw-cutting die-stock.....	J. J. Harrison.....	522,206	July 3	37	10	68	9
Screw-cutting machine.....	D. J. Jones and W. L. Clouse.....	521,543	June 19	1418	{ 329 330 }	67	1486

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Screw-cutting machine.....	M. D. Luehrs.....	521,172	June 12	750	176	67	1346
Screw-cutting machine.....	C. W. Mettler.....	513,334	Jan. 23	2658	{ 645 646 }	66	602
Screw-cutting plate.....	H. B. Keiper.....	530,846	Dec. 11	1342	321	69	1475
Screw-driver.....	J. J. Edwards.....	520,519	May 29	2748	665	67	1106
Screw-driver.....	E. A. Eggert.....	515,327	Feb. 27	2240	555	66	1318
Screw-driver.....	M. Keehn.....	527,696	Oct. 16	1678	404	69	340
Screw-driver.....	A. Mallock.....	519,962	May 15	1787	437	67	899
Screw-driver.....	S. I. Snyder.....	518,472	Apr. 17	1804	446	67	362
Screw-driver.....	J. Swan.....	520,091	May 22	2013	492	67	956
Screw-driver.....	J. Swan.....	523,555	July 24	2394	600	68	493
Screw-driver and drill. Spiral.....	W. H. McCoy and H. L. Pratt.....	529,401	Nov. 20	1586	377	69	975
Screw-driver, auger, and countersink. Combination.....	A. McDougall.....	524,906	Aug. 21	1595	390	68	982
Screw-elevator. Portable.....	J. T. Ayers.....	514,299	Feb. 6	563	141	66	959
Screw-forging apparatus.....	C. Fairbairn and M. Wells.....	524,199	Aug. 7	398	94	68	734
Screw-head slotter.....	G. E. Witherell.....	511,830	Jan. 2	128	32, 33	60	27
Screw-machine.....	C. C. Hill.....	522,207	July 3	38	10	68	9
Screw-machine. Automatic.....	O. P. Briggs.....	514,441	Feb. 13	765	{ 196 197 174 175 }	66	1015
Screw-making machine.....	D. H. Church.....	512,156	Jan. 2	721	{ 174 175 }	66	137
Screw-making machine.....	R. Hakewessell.....	530,179	Dec. 4	172	44, 45	69	1246
Screw-making machine.....	E. C. Henn.....	530,180	Dec. 4	178	45, 46	69	1247
Screw-making machine.....	D. P. Johnston.....	514,007	Feb. 6	51	12, 13	66	864
Screw-making machine.....	J. Steiner.....	511,817	Jan. 2	104	27	66	23
Screw-making machines. Device for separating } turnings from finished screws in }	J. A. Bidwell.....	519,563	May 8	1134	{ 272 273 }	67	765
Screw-press.....	F. Mossberg.....	519,867	May 15	1638	398	67	872
Screw-swaging machine.....	J. Le Blanc.....	516,396	Mar. 13	1088	{ 258 259 }	66	1670
Screw-tapping machine or attachment.....	J. W. Hartley.....	513,363	Jan. 23	2708	658	66	610
Screw. Temper.....	A. T. Herrick.....	513,927	Jan. 30	3643	898	66	822
Screw-thread-forming machine.....	O. Henning.....	518,146	Apr. 10	1210	303	67	237
Screw-threads. Automatically-opening die for cutting.....	J. Hartness.....	522,413	July 3	411	105	68	81
Screws and followers. Means for controlling operative connection between feed.....	E. J. Roche.....	531,427	Dec. 25	2379	569	69	1696
Screws and separating them from turnings. Apparatus for sorting.....	D. P. Johnston.....	512,300	Jan. 9	944	{ 230 231 }	66	191
Screws by rolling. Apparatus for forging.....	C. Fairbairn and M. Wells.....	516,764	Mar. 20	1717	404	66	1803
Screws into leather or other material. Machinery for inserting.....	M. Wiedner.....	519,215	May 1	500	{ 121 122 }	67	634
Screws into wood. Machine for driving.....	C. L. Briggs.....	529,701	Nov. 27	2100	{ 503 504 }	69	1078
Screws. Manufacture of.....	N. C. J. Brandenburg.....	512,798	Jan. 16	1800	428	66	367
Scribbler or carding-engine.....	E. and W. H. Crowther.....	521,703	June 19	1684	395	67	1536
Scriber. Curve.....	H. Harrer.....	511,772	Jan. 2	47	12	66	12
Scrubber.....	A. E. Buckingham.....	516,911	Mar. 20	1954	460	66	1849
Scrubbing-machine.....	A. Au.....	524,751	Aug. 21	1344	328	68	937
Scrubbing-machine.....	J. S. Hitchcock.....	530,689	Dec. 11	1095	265	69	1429
Scrubbing-machine.....	H. M. Patterson.....	525,392	Sept. 4	126	32	68	1173
Scrubbing-machine.....	R. W. Somers.....	519,100	May 1	273	65	67	588
Scrubbing machine. Floor.....	W. W. Head.....	526,315	Sept. 18	1725	{ 407 408 }	68	1493
Scutching flax, hemp, &c. Machine for.....	G. E. Donisthorpe and T. Burrows.....	522,516	July 3	582	149	68	115
Scythe-blades. Mechanism for making.....	G. Eiserle.....	514,545	Feb. 13	948	239	66	1049
Scythe-rack.....	D. B. Canble.....	528,148	Oct. 30	2466	602	69	518
Sea. Composition for pacifying waves of the.....	M. M. F. Richter.....	519,161	May 1	369		67	614
Seal.....	E. J. Brooks.....	512,274	Jan. 9	900	218	66	182
Seal.....	E. J. Brooks.....	520,389	May 22	2533	612	67	1052
Seal.....	E. J. Brooks.....	520,390	May 22	2534	612	67	1052
Seal.....	E. J. Brooks.....	521,134	June 5	678	159	67	1319
Seal.....	E. J. Brooks.....	521,135	June 5	679	159	67	1320
Seal.....	E. J. Brooks.....	521,136	June 5	681	160	67	1320
Seal.....	E. J. Brooks.....	521,137	June 5	683	160	67	1320
Seal.....	E. J. Brooks.....	521,757	June 19	1798	427	67	1555
Seal.....	E. J. Brooks.....	521,758	June 19	1800	427	67	1555
Seal.....	E. J. Brooks.....	524,674	Aug. 14	1210	295	68	900
Seal.....	E. J. Brooks.....	524,675	Aug. 14	1211	296	68	901
Seal.....	E. J. Brooks.....	524,676	Aug. 14	1213	296	68	901
Seal.....	E. J. Brooks.....	524,975	Aug. 21	1715	420	68	1003
Seal.....	E. J. Brooks.....	526,218	Sept. 18	1564	367	68	1460
Seal.....	E. J. Brooks.....	529,318	Nov. 13	1427	343	69	926
Seal.....	F. W. Brooks.....	521,632	June 19	1575	368	67	1514
Seal.....	W. L. Carr.....	515,747	Mar. 6	21	7	66	1459
Seal.....	S. A. Foster.....	531,174	Dec. 18	1928	459	69	1506
Seal.....	J. E. Gogle.....	528,089	Oct. 23	2321	574	69	484
Seal.....	F. E. Gutterson.....	531,376	Dec. 25	2297	548	69	1680
Seal.....	B. J. Sturtevant.....	514,786	Feb. 13	1355	338	66	1126
Seal.....	B. J. Sturtevant.....	523,382	July 24	2055	525	68	439
Seal.....	E. L. Torsch.....	521,427	June 12	1198	284	67	1430
Seal. Bottle.....	H. Robinson.....	518,277	Apr. 17	1451	363	67	298
Seal. Car.....	M. D. Flower and W. G. Denney.....	513,908	Jan. 30	3616	891	66	817
Seal. Car.....	C. Myhre.....	513,274	Jan. 23	2577	623	66	586
Seal for cans. Hermetic.....	F. Westerbeck.....	515,268	Feb. 20	2123	527	66	1284
Seal-lock.....	T. Gaskins.....	528,471	Oct. 30	3047	739	69	619
Seal-lock.....	M. S. Millard.....	512,657	Jan. 9	1540	{ 369 370 }	66	303
Seal-lock.....	W. Orh.....	529,945	Nov. 27	2512	605	69	1153
Seal-lock.....	R. M. Sully.....	516,579	Mar. 13	1399	333	66	1729
Seal or stopper. Bottle.....	W. Painter.....	528,485	Oct. 30	3072	745	69	624
Seal or stopper. Bottle.....	W. Painter.....	528,486	Oct. 30	3073	745	69	624
Seal or stopper. Bottle.....	W. Painter.....	528,487	Oct. 30	3073	745	69	624
Seal. Snap.....	E. J. Brooks.....	524,974	Aug. 21	1713	420	68	1003

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Seal. Snap.....	E. J. Brooks.....	526,217	Sept. 18	1562	366	68	1460
Seal. Spring-box.....	D. E. J. Wellhoener.....	525,376	Sept. 4	102	26	68	1168
Sealed can. Hermetically.....	W. H. Edmunds.....	523,764	July 31	2768	687	68	577
Sealing device. Bottle.....	G. A. Boyden.....	515,990	Mar. 6	420	97	66	1530
Seam. Fabric.....	W. F. Beardslee.....	530,218	Dec. 4	249	60, 61	69	1261
Seam for metal troughs or tanks.....	H. N. Hill.....	525,459	Sept. 4	241	59	68	1195
Seam-ripper.....	G. H. Carder.....	514,811	Feb. 13	1390	350	66	1134
Seams of sheet-metal cans. Machine for rolling or crimping end.....	J. G. Hodgson.....	522,255	July 3	137	33	68	27
Seams of sheet-metal cans. Machine for rolling or crimping end.....	E. Norton, J. G. Hodgson, and F. M. Leavitt.....	522,269	July 3	168	{ 44 45 46 }	68	33
Seams upon metal sheets. Tool for forming lock.....	C. E. Eckel.....	511,764	Jan. 2	37	10	66	10
Seaming and coiling sheet metal. Mechanism for.....	F. T. Thompson.....	523,694	July 31	2641	655	68	554
Seaming machine. Can.....	E. P. Holden.....	522,414	July 3	413	{ 105 106 }	68	82
Seaming machine. Can.....	J. W. Roberts.....	521,894	June 26	2018	{ 487 488 }	67	1616
Seaming machine. Can.....	J. W. Roberts.....	521,895	June 26	2025	{ 488 489 391 }	67	1618
Seaming machine. Can.....	W. Wagner.....	523,091	July 17	1560	{ 392 393 }	68	326
Seaming-machine for sheet-metal ware.....	R. Flanigan.....	513,994	Feb. 6	36	7	66	861
Seaming-machines. Fluxing attachment for.....	H. Schaake.....	525,625	Sept. 4	507	{ 122 123 }	68	1246
Seaming machinery. Metal-can.....	H. Miller.....	519,088	May 1	255	60, 61	67	585
Seaming sectional sheet-metal pipes. Machine for.....	A. G. Scherer.....	523,687	July 31	2630	653	68	552
Seaming sheet-metal cans. Mechanism for.....	J. A. Steward.....	519,594	May 8	1187	{ 286 287 }	67	775
Seaming sheet-metal tubes. Machine for lap.....	F. B. Lotze.....	524,554	Aug. 14	1018	250	65	864
Seamless figured fabric.....	R. K. Giffen.....	512,694	Jan. 16	1604	365	66	330
Seamless self-opening can.....	E. Norton.....	514,025	Feb. 6	77	20	66	868
Sear. Safety.....	G. A. Horne.....	520,596	May 29	2880	697	67	1132
Search-light.....	O. G. Cates, Jr.....	521,601	June 19	1517	355	67	1503
Search-lights. Tilting device for.....	P. J. Daugherty and W. F. Litten.....	525,262	Aug. 28	2227	542	68	1111
Seat:							
See Car-seat.....	Pressed-steel seat.....						
Carriage jump-seat.....	School-seat.....						
Chair-seat.....	Spring-seat.....						
Cycle-saddle seat.....	Vehicle-seat.....						
Engineer's seat.....	Vehicle shifting seat.....						
Folding seat.....	Wagon-seat.....						
Seat.....	O. L. Barrett.....	522,142	June 26	2477	594	67	1700
Seat.....	T. O. Colles.....	513,484	Jan. 30	2920	719	66	685
Seat.....	M. Miles.....	512,204	Jan. 2	788	191	66	149
Seat and back-rest.....	C. L. Russell.....	513,735	Jan. 30	3358	828	66	765
Seat and folding berth. Combined.....	P. Fraser.....	528,271	Oct. 30	2695	650	69	557
Seat and seesaw. Combined.....	E. Tornblom.....	514,521	Feb. 13	913	231	66	1042
Seat-back. Removable.....	A. P. Derby.....	518,097	Apr. 10	1135	286	67	223
Seat or cushion.....	W. Vogler.....	527,633	Oct. 16	1572	380	69	320
Seats. Protector for exposed.....	G. H. S. Farrant.....	524,893	Aug. 21	1576	385	68	978
Secondary battery.....	G. L. Ballard.....	517,018	Mar. 27	2146	509	66	1902
Secondary battery.....	H. H. Carpenter.....	514,260	Feb. 6	494	121	66	946
Secondary battery.....	A. Hough.....	512,823	Jan. 16	1848	437	66	377
Secondary battery.....	F. K. Irving.....	512,473	Jan. 9	1254	302	66	249
Secondary battery.....	W. C. Lockwood.....	512,253	Jan. 2	864	.....	66	163
Secondary battery.....	E. and L. Paget.....	513,245	Jan. 23	2527	{ 609 610 }	66	576
Secondary battery.....	A. E. Peyrussion.....	523,371	July 24	2069	520	68	436
Secondary battery.....	E. M. Poston.....	528,740	Nov. 6	375	91	69	715
Secondary battery.....	J. E. Rhettis.....	528,445	Oct. 30	2998	724	69	610
Secondary battery.....	L. B. Rowley.....	515,502	Feb. 27	2517	624	66	1369
Secondary battery.....	E. R. Whitney.....	516,253	Mar. 13	852	199	66	1627
Secondary cell or battery.....	G. B. Henry.....	517,455	Apr. 3	71	15	67	16
Secondary electric battery.....	C. Theryc and A. Oblasser. (Re-issue.).....	11,442	Sept. 18	1827	{ 433 434 }	68	1513
Sectional boiler.....	E. T. Carr.....	512,679	Jan. 16	1573	378	66	324
Sectional boiler.....	H. A. R. Dietrich.....	526,563	Sept. 25	2159	516	68	1585
Sectional boiler.....	F. Grote.....	515,584	Feb. 27	2651	658	66	1396
Sectional boiler.....	J. Lapp.....	516,209	Mar. 13	778	182	66	1614
Sectional boiler.....	W. Vanderman.....	522,441	July 3	467	{ 118 119 }	68	93
Sectional boiler.....	G. A. Watson.....	521,746	June 19	1760	{ 417 418 }	67	1550
Sectional boiler or heater.....	A. C. A. Bauer and F. D. Johnson.....	519,297	May 1	642	156	67	661
Seed and hulls. Process of and apparatus for treating cotton.....	W. C. Johnson.....	530,533	Dec. 11	823	204	69	1362
Seed-cleaner.....	J. W. Henry.....	512,702	Jan. 16	1612	398	66	332
Seed cleaner and separator. Cotton.....	J. W. Smith.....	518,124	Apr. 10	1178	295	67	231
Seed-delinting machine. Cotton.....	J. H. McCormick.....	519,613	May 8	1216	293	67	780
Seed hulls and separating lint and hulls. Art of and machine for detaching lint from cotton.....	J. P. Burnham.....	523,655	July 31	2559	641	68	541
Seed hulls and separating lint and hulls. Detaching lint from cotton.....	J. P. Burnham.....	525,691	Sept. 11	638	150	68	1282
Seed. Machine for cleaning cotton or other.....	M. Moran.....	522,179	June 26	2535	608	67	1711
Seed-rack.....	A. Forbes and A. G. O'Neil.....	515,580	Feb. 27	2644	657	66	1395
Seed-separating machine. Cotton.....	T. A. Jackson.....	520,315	May 22	2407	{ 585 586 }	67	1027
Seeds in envelopes. Machine for packaging.....	E. Rau.....	518,427	Apr. 17	1724	{ 429 430 }	67	348
Seeder.....	L. C. Evans.....	520,182	May 22	2188	533	67	966
Seeder.....	F. R. Packham.....	522,329	July 3	263	70	68	53

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Seeder	C. F. Search	511,807	Jan. 2	93	24	66	21
Seeder and planter	J. W. Campbell	519,986	May 15	1825	447	67	906
Seeding-machine	G. W. Crossley, J. W. Stout, and W. Rigdon	518,835	Apr. 24	2421	600	67	485
Seeding-machine	A. Lindgren	516,019	Mar. 6	463	{ 106 107 }	66	1538
Seeding-machine	W. W. Marsden	515,243	Feb. 20	2084	517	66	1276
Seeding-machine	F. R. Packham	527,621	Oct. 16	1551	376	69	316
Seeding-machine	F. R. Packham	530,962	Dec. 18	1538	{ 364 365 }	69	1525
Seesaw	M. Mayer	525,107	Aug. 28	1979	484	68	1067
Self-attaching bolt	J. H. Calkins	519,172	May 1	419	101	67	618
Self-closing can	I. Sexton	521,556	June 19	1440	335	67	1490
Self-closing switch	C. N. and H. P. Lenhart	523,840	July 31	2907	{ 725 726 }	68	603
Self-fastening box	O. Heinrich	530,225	Dec. 4	265	65, 66	69	1263
Self-opening gate	G. L. Duncan	521,524	June 19	1391	322	67	1481
Self-waiting table	W. R. Cummings	524,056	Aug. 7	142	32	68	688
Self-waiting table	R. Hogg	519,630	May 8	1254	301	67	786
Semaphore	J. W. Davis	520,756	May 29	3153	{ 763 764 }	67	1181
Semaphore-operating apparatus	J. S. Lynam	528,961	Nov. 13	813	190	69	815
Semaphore-operating device	J. H. Frischen	513,496	Jan. 30	2944	725	66	690
Semaphore-operating device	J. H. Frischen	513,562	Jan. 30	3069	755	66	713
Semaphore-signal	I. L. Green	516,597	Mar. 13	1427	339	66	1734
Separating and purifying machine	J. La Croix	523,215	July 17	1805	453	68	370
Separating granular mixtures. Method of and means for	M. McDonald	513,521	Jan. 30	2992	737	66	698
Separating-machine	N. W. Holt	513,613	Jan. 30	3146	{ 772 773 }	66	727
Separating-machine	O. M. Morse	514,016	Feb. 6	63	15, 16	66	866
Separating-machine. Centrifugal	O. Ohlsson	521,730	June 19	1734	412	67	1546
Separating-machine. Centrifugal	O. Ohlsson	528,683	Nov. 6	293	71, 72	69	699
Separating-machine. Magnetic	W. H. Williams	522,053	Oct. 23	2311	{ 557 558 }	69	472
Separating solids from sludge. Apparatus for	W. Birch	514,300	Feb. 6	565	141	66	959
Separator:							
See Battery-plate separator.	Flax-separator.						
Bean-separator.	Gold-separator.						
Centrifugal separator.	Grain-separator.						
Coal-separator.	Liquid-separator.						
Coin-separator.	Magnetic separator.						
Corn-separator.	Oil and water separator.						
Cotton-separator.	Ore-separator.						
Cream-separator.	Soot-separator.						
Current-separator.	Spinning-rail separator.						
Dnst-separator.	Steam-separator.						
Teeth-separator.							
Separator	J. E. Borchard	527,656	Oct. 16	1607	388	69	326
Separator	G. O. Draper	525,451	Sept. 4	230	57	68	1193
Separator	R. W. Jessup	516,440	Mar. 13	1160	278	66	1685
Separator	R. W. Jessup	528,434	Oct. 30	2977	720	69	606
Separator	J. H. Maggard	529,454	Nov. 20	1693	404	69	994
Separator	O. M. Morse	529,572	Nov. 27	2388	571	69	1132
Separator and grader	D. J. Davidson	521,402	June 12	1154	273	67	1422
Separator-bowl. Centrifugal	D. J. Davis	517,603	Apr. 3	303	70	67	59
Separator-frame and support	G. O. Draper	524,166	Aug. 7	344	81	68	724
Separator governor attachment	J. Overholser	515,358	Feb. 27	2293	569	66	1328
Server. Refreshment	M. Gaul	523,068	July 17	1530	383	68	320
Settee-arm	W. C. Bartol	518,130	Apr. 10	1186	297	67	232
Setting-machine	F. Bean	528,524	Nov. 6	5	2, 3	69	647
Settling-tank	D. W. Fall, F. B. Wineland, and S. L. Richards	526,565	Sept. 25	2164	517	68	1586
Sewage and apparatus therefor. Treatment of	W. D. Scott-Moncrieff	530,622	Dec. 11	975	239	69	1409
Sewer-pipe connection	J. P. Bates	523,955	July 31	3118	775	68	644
Sewer-pipe coupling	J. D. Anderson	514,432	Feb. 13	753	193	66	1013
Sewer-pipe joint. Vitrified fire-clay	J. E. Edwards	515,119	Feb. 20	1873	470	66	1237
Sewer-trap cleaner	L. Beliveau	528,459	Oct. 30	3030	735	69	616
Sewers. Manhole for	G. Wright	530,816	Dec. 11	1296	313	69	1467
Sewing apparatus. Carpet-stretcher for carpet	F. Ames	520,910	June 5	285	69, 70	67	1249
Sewing heads to fabrics. Machine for	K. Necker	518,156	Apr. 10	1226	{ 307 308 }	67	240
Sewing bench. Book	F. Adams	514,691	Feb. 13	1193	297	66	1096
Sewing books	J. T. O. Orloff	529,079	Nov. 13	1008	243	69	849
Sewing carpet-corners. Apparatus for	F. Ames	520,909	June 5	283	68, 69	67	1249
Sewing carpet-corners. Mechanism for	F. Ames	524,079	Aug. 7	185	42	68	695
Sewing looped fabrics. Machine for	J. Köhler	520,208	May 22	2233	{ 543 544 }	67	995
Sewing looped fabrics. Machine for	J. Köhler	520,209	May 22	2237	{ 545 546 }	67	995
Sewing looped fabrics. Machine for	D. Maus	511,856	Jan. 2	175	43	66	37
Sewing-machine	E. B. Allen	524,996	Aug. 28	1766	{ 430 432 }	68	1029
Sewing-machine	J. E. Bertrand	530,297	Dec. 4	391	99	69	1286
Sewing-machine	S. Borton	525,042	Aug. 28	1861	455	68	1048
Sewing-machine	D. Brown	517,376	Mar. 27	2753	647	66	2020
Sewing-machine	W. S. Clark and M. H. Willis	525,885	Sept. 11	1000	225	68	1346
Sewing-machine	E. and R. Cornely	522,828	July 10	1131	{ 280 281 }	68	229
Sewing-machine	P. L. Cox	530,471	Dec. 4	679	169	69	1340
Sewing-machine	C. A. Dahl	521,308	June 12	989	233	67	1389

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Sewing-machine	M. T. Denne.....	529,064	Nov. 13	978	{ 231 232 233 }	69	844
Sewing-machine	J. Douglas.....	516,190	Mar. 13	748	175	66	1608
Sewing-machine	J. Emanuel and A. Spielmann.....	530,986	Dec. 13	1584	376	69	1533
Sewing-machine	H. H. Fefel.....	513,009	Jan. 16	2163	515	66	434
Sewing-machine	H. H. Fefel.....	523,932	July 31	3074	{ 765 766 150 }	68	635
Sewing-machine	J. L. Follett.....	512,105	Jan. 2	626	{ 151 456 457 }	66	120
Sewing-machine	Z. T. French and W. C. Meyer.....	525,047	Aug. 28	1870	{ 457 334 335 }	68	1049
Sewing-machine	M. Gardner. (Reissue).....	11,412	Apr. 10	1341	{ 409 470 }	67	262
Sewing-machine	P. Göhring.....	521,555	June 26	1951	{ 470 557 }	67	1602
Sewing-machine	P. Göhring.....	521,856	June 26	1953	470	67	1602
Sewing-machine	J. C. Goodwin.....	517,141	Mar. 27	2359	557	66	1942
Sewing-machine	J. Haas and R. Lintz.....	523,522	July 24	2349	590	68	485
Sewing-machine	J. Holroyd, C. B. Hunt, and R. J. Johns.....	521,372	June 12	1107	{ 260 261 262 }	67	1413
Sewing-machine	J. T. Jones.....	519,676	May 8	1321	{ 317 318 319 }	67	799
Sewing-machine	K. S. Klogel.....	524,063	Aug. 7	160	36	68	691
Sewing-machine	P. B. Laskey.....	528,782	Nov. 6	462	113	69	730
Sewing-machine	F. Lichtfeldt.....	523,361	July 24	2052	516	68	433
Sewing-machine	A. E. Lindner.....	516,020	Mar. 6	465	107	66	1538
Sewing-machine	C. F. Littlejohn.....	521,377	June 12	1115	263	67	1415
Sewing-machine	L. L. Miller.....	515,712	Feb. 27	2860	{ 712 713 }	66	1437
Sewing-machine	E. Murphy.....	525,227	Aug. 28	2178	532	68	1102
Sewing-machine	H. F. Nason.....	513,717	Jan. 30	3330	{ 822 823 }	66	760
Sewing-machine	H. F. Nason.....	523,589	July 24	2447	{ 613 614 }	68	503
Sewing-machine	F. Oneill.....	531,059	Dec. 18	1709	406	69	1557
Sewing-machine	J. Ott.....	524,558	Aug. 14	1023	252	62	865
Sewing-machine	J. Ott.....	524,559	Aug. 14	1025	253	68	866
Sewing-machine	J. B. Price.....	527,288	Oct. 9	1003	{ 243 244 }	69	200
Sewing-machine	J. Reece.....	520,657	May 29	2971	719	67	1148
Sewing-machine	G. H. Scetrini and G. Cade.....	527,348	Oct. 9	1098	{ 267 268 }	69	218
Sewing-machine	J. R. Scott.....	515,621	Feb. 27	2710	674	66	1408
Sewing-machine	R. W. Thomson.....	521,301	June 12	977	231	67	1387
Sewing-machine	J. Vannette.....	526,470	Sept. 25	2023	{ 482 483 222 }	68	1560
Sewing-machine	J. H. Way.....	525,879	Sept. 11	991	{ 222 223 }	68	1344
Sewing-machine	S. H. Wheeler.....	526,335	Sept. 18	1756	416	68	1500
Sewing-machine attachment	W. S. Soule.....	524,739	Aug. 21	1321	333	68	933
Sewing-machine attachment-holder	W. R. Parsons.....	519,134	May 1	344	82	67	604
Sewing-machine bed-plate.....	L. Muther.....	523,917	July 31	3041	757	68	628
Sewing-machine binder attachment	M. Riker.....	514,606	Feb. 13	1059	265	66	1070
Sewing-machine. Book.....	W. I. Blackman.....	531,357	Dec. 25	2258	{ 538 539 540 }	69	1672
Sewing-machine. Boot or shoe	M. C. and T. J. Denne.....	515,662	Feb. 27	2775	691	66	1421
Sewing-machine. Buttonhole	W. V. Miller.....	517,354	Mar. 27	2715	633	66	2012
Sewing-machine buttonhole attachment	F. C. Hall.....	513,504	Jan. 30	2958	723	66	693
Sewing-machine cabinet	T. Kundtz.....	524,090	Aug. 7	205	46, 47	68	699
Sewing-machine cording attachment	P. Schoen.....	529,415	Nov. 20	1610	383	69	979
Sewing-machine fabric-folding attachment	M. Tobener.....	511,977	Jan. 2	419	97	66	80
Sewing-machine feeding mechanism. Buttonhole	J. T. Hogan.....	526,393	Sept. 25	1878	446	68	1535
Sewing-machine felling attachment	J. W. Betz.....	520,292	May 22	2374	576	67	1021
Sewing-machine for barring and tacking	G. S. Hill.....	529,491	Nov. 20	1759	418	69	1005
Sewing-machine for barring buttonholes	E. H. Harris.....	528,225	Oct. 30	2620	{ 632 633 }	69	542
Sewing-machine for fringing fabrics	G. A. Judson.....	521,982	June 26	2207	{ 531 532 }	67	1650
Sewing-machine for stitching and barring buttonholes	F. R. Austin.....	522,928	July 10	1288	{ 319 320 374 }	68	259
Sewing-machine. Fur.....	F. Van Cauwenbergh.....	514,874	Feb. 13	1493	{ 375 376 377 }	66	1152
Sewing-machine. Glove.....	F. Van Cauwenbergh.....	514,635	Feb. 13	1104	{ 274 275 276 }	66	1079
Sewing-machine guide	C. H. Foster.....	530,173	Dec. 4	160	42	69	1244
Sewing-machine guide	P. Schoen.....	529,417	Nov. 20	1613	383	69	980
Sewing-machine hemmer	P. Schoen.....	529,419	Nov. 20	1615	384	69	980
Sewing-machine. Hemstitch	C. M. Abercrombie.....	520,977	June 5	409	98	67	1271
Sewing-machine hemstitching attachment	P. Schoen.....	529,418	Nov. 20	1614	{ 383 384 }	69	980
Sewing-machine knotter	A. W. Cochran.....	527,407	Oct. 16	1199	294	69	251
Sewing-machine loop-taker	P. Diehl.....	523,334	July 24	2017	507	68	426
Sewing-machine looper	J. Heherling.....	514,653	Feb. 13	1130	282	66	1084
Sewing-machine needle	J. M. Farmer.....	517,853	Apr. 10	720	181	67	153
Sewing-machine needle-bar	S. H. Wheeler.....	527,915	Oct. 23	2059	494	69	426
Sewing-machine needle-threader	P. Bralley.....	529,586	Nov. 20	1930	458	69	1035
Sewing-machine needle-threader	T. R. Fischer.....	525,142	Aug. 28	2044	499	68	1079
Sewing-machine plaiting attachment	P. Schoen.....	529,420	Nov. 20	1616	384	69	980

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Sewing-machine. Pop-stitch	L. L. Miller	515,713	Feb. 27	2864	714	66	1437
Sewing-machine presser-foot	R. G. Woodward	519,897	May 15	1684	411	67	881
Sewing-machine presser-foot attachment	F. B. Almy	523,827	July 31	2880	715	68	599
Sewing-machine presser-foot mechanism	H. A. Dodge, W. G. Tillou, and W. T. Richards	512,014	Jan. 2	477	114	66	92
Sewing-machine quilting attachment	W. A. Cassidy	514,443	Feb. 13	770	197	66	1016
Sewing-machine quilting-frame	J. A. Parsons	529,946	Nov. 27	2513	605	69	1153
Sewing-machine quilting mechanism	G. A. Stafford	526,465	Sept. 25	2018	480 481	68	1559
Sewing-machine ruffling attachment	R. W. Whitney	516,252	Mar. 13	851	198	66	1627
Sewing-machine. Sack	C. E. Williams	529,769	Nov. 27	2214	527	69	1098
Sewing machine. Shoe	E. E. Bean	524,986	Aug. 21	1743	426	68	1010
Sewing machine. Shoe	M. T. Denne	527,836	Oct. 23	1904	457 458 459	69	398
Sewing machine. Shoe	G. A. Knox and E. E. Bean	513,048	Jan. 16	2214	530 531 532	66	444
Sewing machine. Shoe	F. A. Mills	524,336	Aug. 14	628	154 155 156	68	794
Sewing machine. Shoe	F. A. Mills	524,339	Aug. 14	657	160 161	68	797
Sewing machine. Shoe	G. R. Pearce	526,325	Sept. 18	1741	412	68	1497
Sewing-machine shuttle	H. A. Bates	522,002	June 26	2246	539	67	1056
Sewing-machine shuttle	H. A. Bates and W. H. Barnett	515,187	Feb. 20	1984	495	66	1258
Sewing-machine shuttle	P. Diehl	530,095	Dec. 4	32	9	69	1221
Sewing-machine shuttle	C. E. Wilkinson	524,815	Aug. 21	1451	355	68	957
Sewing-machine shuttle	W. E. Trull	512,526	Jan. 9	1331	321	66	263
Sewing-machine shuttle-actuating mechanism	H. Moore	520,759	May 29	3157	765	67	1182
Sewing-machine shuttle-actuating mechanism	J. Tripp	527,565	Oct. 16	1459	355	69	299
Sewing-machine-shuttle cop-holder	J. T. Jones	519,428	May 8	891	215	67	723
Sewing-machine shuttles. Thread-cop for	H. A. Bates	521,080	June 5	584	137	67	1302
Sewing-machine snap-slide	J. K. Hunter	519,260	May 1	576	140	67	649
Sewing machine. Straw-braid	I. H. Gonyon	513,500	Jan. 30	2952	726	66	691
Sewing-machine table	W. M. Cuthbert	522,289	July 3	199	54	68	41
Sewing-machine table	T. Kundtz. (Reissue)	11,453	Nov. 13	1476	354 355	69	935
Sewing-machine tack-pulling attachment	A. B. Fowler and G. E. Warren	520,775	June 5	24	5	67	1201
Sewing-machine take-up	J. R. Scott	515,252	Feb. 20	2097	520 521	66	1279
Sewing-machine take-up. Shoe	H. Briggs	518,911	Apr. 24	2550	630	67	511
Sewing-machine tension device	G. W. Baker	521,075	June 5	576	135	67	1301
Sewing machine tension device. Shoe	F. A. Mills	524,335	Aug. 14	626	152 153	68	794
Sewing-machine thread-cutter	S. Borton	525,043	Aug. 28	1862	455	68	1048
Sewing-machine thread-gripping device	W. A. Mack	512,255	Jan. 2	866	209	66	163
Sewing-machine thread-gripping mechanism	W. A. Mack	519,539	May 8	1099	263 264	67	759
Sewing-machine trimmer	H. H. Fefel	513,008	Jan. 16	2162	514	66	434
Sewing-machine trimmer	H. H. Fefel	523,933	July 31	3078	766	68	636
Sewing-machine trimmer	J. C. Goodwin	517,140	Mar. 27	2358	556	66	1942
Sewing-machine trimming attachment	W. G. Cummins and E. A. Munro	529,783	Nov. 27	2292	532	69	1101
Sewing-machine work-guiding device	J. E. Oliver	518,623	Apr. 24	2047	509	67	420
Sewing-machines. Automatic stop-action for	J. Faust	530,264	Dec. 4	329	82	69	1276
Sewing-machines. End-cap for cylinder	E. C. Holland	519,909	May 15	1702	415	67	884
Sewing machines. Guide for carpet	E. B. Allen	524,995	Aug. 28	1764	430	68	1029
Sewing-machines. Guide for two-needle	P. Schoen	529,416	Nov. 20	1611	383	69	980
Sewing machines. Guiding and pile-controlling device for carpet	E. B. Allen	524,994	Aug. 28	1763	430	68	1029
Sewing machines. Loop-forming mechanism for shoe	F. A. Mills	524,338	Aug. 14	648	156 157 158	68	796
Sewing-machines. Method of and apparatus for winding cops to be used in	W. Duchemin	515,489	Feb. 27	2499	619	66	1366
Sewing-machines. Oscillating hook for	P. Diehl	523,332	July 24	2012	507	68	426
Sewing-machines. Oscillating hook for	P. Diehl	523,333	July 24	2014	507	68	426
Sewing-machines. Wax-thread-heating device for	F. A. Mills	524,340	Aug. 14	660	161	68	798
Sewing-machines. Waxing and heating device for shoe	F. A. Mills	524,334	Aug. 14	623	151 152	68	794
Sewing-machines. Wear-compensating device for needle-bars of	H. A. Dodge and W. T. Richards	518,836	Apr. 24	2422	600	67	485
Sewing machines. Work supporting and feeding device for shoe	F. A. Mills	524,337	Aug. 14	639	155 156 157	68	795
Sewing on buttons. Machine for	E. Hanslapakar	531,261	Dec. 18	2087	500	69	1624
Sewing on buttons. Machine for	A. Walrath	528,832	Nov. 6	574	136	69	750
Sewing sweat-bands in hats	J. Stewart, Jr.	515,262	Feb. 20	2113	524	66	1282
Sewing sweat-bands into hats. Machine for	W. P. Gammons, Jr.	519,038	May 1	162	38	67	567
Sextant attachment	T. H. H. Ferguson	530,830	Dec. 11	1316	317	69	1470
Shade	C. H. Forbes	515,048	Feb. 20	1765	445	66	1216
Shade adjuster. Window	E. W. Smith and E. H. Miller	524,985	Aug. 21	1741	425	68	1009
Shade appliance. Window	L. M. Rice	516,315	Mar. 13	912	221	66	1646
Shade attachment. Window	G. B. N. Dow	524,383	Aug. 14	1055	260	68	872
Shade bracket. Window	T. H. Klein and H. C. French	520,648	May 29	2958	716	67	1146
Shade-cord fastener	J. M. Crampton	519,148	May 1	369	88	67	609
Shade fixture. Adjustable window	E. E. Wagner	523,559	July 24	2402	602	68	495
Shade fixture. Window	A. B. Dunkle	513,610	Jan. 30	3141	771	66	726
Shade fixture. Window	W. T. Estberg	524,978	Aug. 21	1718	421	68	1004
Shade fixture. Window	H. Parker	522,384	July 3	359	92	68	71
Shade fixture. Window	H. R. Smiley	519,437	May 8	904	217 218	67	725
Shade fixture. Window	F. M. Wilkinson	519,979	May 15	1817	445	67	904
Shade forming and cutting die	E. D. Cooke	512,684	Jan. 16	1586	381	66	327
Shade-hanger	A. M. Bergner	523,452	July 24	2218	557	68	461

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Shade-hanger. Extensible.....	J. Joseph.....	517,750	Apr. 3	563	138	67	109
Shade-holder.....	N. W. Crandall and E. A. Russell.....	528,288	Oct. 30	2731	659	69	563
Shade-holder.....	J. Hutchinson.....	522,596	July 10	720	184	68	157
Shade holder. Adjustable window.....	G. W. Everett.....	530,026	Nov. 27	2677	{ 642 643 }	69	1187
Shade holder. Window.....	A. B. Dunkle.....	521,784	June 26	1843	439	67	1581
Shade or globe holder.....	F. Rhind.....	527,229	Oct. 9	1008	244	69	201
Shade-roller.....	E. F. Hartshorn.....	515,218	Feb. 20	2039	508	66	1268
Shade-roller.....	S. Hartshorn.....	513,783	Jan. 30	3421	844	66	777
Shade-roller.....	S. Hartshorn.....	516,486	Mar. 13	1237	235	66	1699
Shade-roller.....	D. Lauer.....	516,018	Mar. 6	462	106	66	1538
Shade-roller.....	M. E. Reilly.....	520,863	June 5	199	45	67	1233
Shade-roller bracket.....	C. F. F. Flos.....	523,203	July 17	1787	449	68	367
Shade-roller bracket. Adjustable.....	G. Cook.....	518,208	Apr. 10	1331	333	67	260
Shade shifter. Adjustable window.....	C. B. Corbin.....	522,557	July 3	652	165	68	127
Shade support.....	N. W. Crandall and E. A. Russell.....	527,946	Oct. 23	2122	509	69	438
Shade support. Adjustable window.....	J. M. Hoffman.....	518,737	Apr. 24	2270	564	67	458
Shade. Window.....	E. Horn.....	518,246	Apr. 17	1401	351	67	289
Shade. Window.....	S. Longanecker.....	581,201	Dec. 18	1974	{ 462 469 }	69	1604
Shade. Window.....	H. Parker.....	522,383	July 3	356	91	68	71
Shades. Attachment for vertically adjusting window.....	A. W. Collison.....	518,566	Apr. 17	1958	483	67	3-9
Shades, &c. Device for adjusting window.....	P. Goldmann.....	521,408	June 12	1163	276	67	1424
Shades. Fixture for vertically adjusting window.....	N. Bosmann.....	521,280	June 12	933	221	67	1379
Shades. Holding device for spring-actuated.....	E. T. Burrows.....	529,517	Nov. 20	1805	429	69	1013
Shades. Holding device for spring-actuated.....	J. A. Lidback.....	529,179	Nov. 13	1123	285	69	831
Shades. Holding mechanism for spring-actuated.....	H. H. Sr., H. H., Jr., and W. H. Foreyth.....	524,060	Aug. 7	153	34	68	690
Shades. Holding mechanism for spring-actuated.....	J. A. Lidback.....	529,557	Nov. 20	1873	446	69	1026
Shades or curtains. Attachment for adjusting window.....	L. Yancey.....	519,856	May 15	1619	394	67	868
Shaft. Adjustable.....	A. M. Howard.....	514,004	Feb. 6	46	11	66	863
Shaft attachment for buggies.....	H. G. Vaughan.....	530,251	Dec. 4	308	77	60	1271
Shaft-coupling.....	M. Abraham.....	526,551	Sept. 25	2141	513	68	1582
Shaft-coupling.....	A. Bolzani.....	527,655	Oct. 16	1606	388	69	326
Shaft-coupling.....	S. Crolley.....	513,609	Jan. 30	3141	771	66	726
Shaft-coupling.....	W. H. Harfield.....	524,087	Aug. 7	199	44	68	698
Shaft-coupling. Safety.....	C. A. Sellon.....	514,384	Feb. 6	685	173	66	982
Shaft coupling. Slip.....	T. L. Baumgarten.....	517,787	Apr. 3	624	156	67	121
Shaft. Expansion.....	J. C. Coram.....	528,150	Oct. 30	2489	603	69	519
Shaft-hanger.....	W. Bynon.....	529,319	Nov. 13	1428	343	69	926
Shaft-hanger.....	W. Diebel.....	524,315	Aug. 14	593	143	65	788
Shaft-hanger.....	F. N. Gardner.....	528,774	Nov. 6	445	{ 109 110 }	69	727
Shaft-hanger.....	E. A. Hill.....	524,549	Aug. 14	1010	249	68	863
Shaft holder. Vehicle.....	P. J. Harrah.....	522,114	June 26	2420	581	67	1689
Shaft-locking mechanism.....	E. G. Crawford.....	530,580	Dec. 11	909	{ 222 223 }	69	1397
Shaft-setting device.....	H. B. Campbell.....	521,306	June 12	986	233	67	1388
Shaft-support and antirattler. Combined.....	W. Cavers.....	522,824	July 10	1127	279	68	228
Shaft-support and thill-coupling. Combined.....	W. E. Murbarger.....	518,763	Apr. 24	2304	572	67	465
Shaft-support. Fluid-pressure.....	W. Harrison.....	519,906	May 15	1696	414	67	883
Shaft support. Vehicle.....	J. J. Barker.....	520,750	May 29	3142	761	67	1179
Shaft support. Vehicle.....	W. Irving.....	522,420	July 3	421	107	68	64
Shaft support. Vehicle.....	C. H. Knight.....	526,108	Sept. 18	1370	320	68	1425
Shaft support. Vehicle.....	J. A. Wheatley and S. M. Worthington.....	525,125	Aug. 28	2008	491	68	1072
Shaft-support and antirattler. Combined.....	E. E. Blackman.....	527,475	Oct. 16	1320	322	69	275
Shafts. Device for repairing broken.....	D. Kershaw.....	516,602	Mar. 13	1437	341	66	1736
Shafts. Device for securing cutters or other articles to rotary.....	W. D. Orcutt.....	530,285	Dec. 4	373	91	69	1283
Shafts. Securing crank-arms to.....	C. Aichele.....	512,529	Jan. 9	1336	322	66	264
Shafts to vehicles. Device for attaching.....	W. T. Sears.....	530,801	Dec. 11	1273	307	69	1462
Shafting. Apparatus for turning and polishing.....	P. Medart.....	516,543	Mar. 13	1338	319	66	1718
Shafting-hanger.....	J. W. Hyatt.....	526,710	Oct. 2	69	17, 18	69	15
Shafting-protector.....	J. Hunt.....	516,489	Mar. 13	1243	298	66	1700
Shafting. Stop mechanism for.....	A. Coultial.....	512,578	Jan. 9	1407	340	66	277
Shafting. Straightening-machine for.....	W. Copley and H. E. Hodgson.....	525,003	Aug. 28	1786	436	68	1033
Shakers, &c. Movement for.....	H. J. Gerhardt and F. E. Jagerson.....	526,389	Sept. 25	1871	445	68	1533
Shaping fleecy masses. Machine for.....	E. Goldman.....	520,419	May 29	2578	{ 623 624 }	67	1076
Shaping-machine with milling attachment.....	F. J. Thomas.....	525,476	Sept. 4	267	65, 66	68	1201
Sharpener and hone-stone holder. Combined knife.....	P. Birch.....	521,755	June 19	1792	425	67	1551
Sharpener. Razor.....	P. J. Caesar.....	526,125	Sept. 18	1396	325	68	1430
Sharpener. Scissors or knife.....	W. E. Ginn.....	525,414	Sept. 4	168	43	68	1182
Sharpening device. Knife or scissors.....	T. T. Hosack.....	522,373	July 3	337	87	68	66
Sharpening device. Razor.....	P. J. Caesar.....	529,320	Nov. 13	1429	344	69	926
Sharpening device. Tool.....	W. H. Simmons.....	525,631	Sept. 4	514	124	68	1247
Sharpening disk knives. Implement for.....	R. H. Dodge and H. S. Clinton.....	531,364	Dec. 25	2275	542	69	1675
Sharpening gravers or other tools. Holder for.....	J. J. Vernier.....	530,735	Dec. 11	1171	285	69	1442
Sharpening machine. Razor.....	C. A. Worden.....	522,361	July 3	316	81	68	62
Sharpening machine. Shears.....	C. N. Sly.....	523,908	July 31	3022	751	68	625
Sharpening-machines. Razor holding and adjusting device for.....	C. A. Worden.....	519,296	May 1	639	156	67	661
Sharpening razors, shears, &c. Machine for.....	C. A. Worden.....	516,146	Mar. 6	661	155	66	1576
Sawli-strap.....	C. Zender.....	516,420	Mar. 13	1127	268	66	1678
Shear-bow.....	D. and D. C. Wheeler.....	529,513	Nov. 20	1802	428	69	1012
Shears:							
See Animal-shears. Metal-cutting shears.							
Barber's shears. Pneumatic shears.							
Dehorning-shears. Power-shears.							
Hair-trimming shears. Pruning-shears.							
Metal-shears. Tinner's shears.							
Shears.....	J. H. Aufderheide.....	518,129	Apr. 10	1185	297	67	232

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Shears	E. Bailey	524,673	Aug. 14	1209	295	68	900
Shears	Z. L. Hayden	523,984	Aug. 7	28	7	68	668
Shears	D. H. Hollingsworth	521,526	June 19	1395	322	67	1482
Shears	L. A. Nickerson and P. A. Keller	526,814	Oct. 2	238	58	69	45
Shears	H. T. Seymour	517,244	Mar. 27	2531	594	66	1976
Shears	G. H. Stockmann	513,542	Jan. 30	3031	747	66	706
Shears	C. Thompson	523,950	July 31	3109	774	68	642
Shears-joint	A. J. Krank	522,904	July 10	1248	309	68	252
Shears-operating mechanism	E. A. Cochran	523,266	July 17	1896	477	68	387
Shearing or clipping animals. Machine for	C. and H. Burgon	523,880	July 31	2976	741	68	617
Sheathing. Fireproof	C. Ehrlicher	517,851	Apr. 10	719		67	153
Sheep. Apparatus for ear-marking.	G. W. Shaler	516,228	Mar. 13	813	190	66	1620
Sheep-shearing machine.	D. S. Chambers	514,704	Feb. 13	1219	703	66	1101
Sheet-delivering machine	B. F. Barnes and J. G. Smith	524,126	Aug. 7	271	63	64	68
Sheet-feeder	G. E. Clarke	524,309	Aug. 14	583	140	68	786
Sheet-metal box	J. D. Ellis	523,852	July 31	2932	731	68	608
Sheet-metal can	T. Reis	516,403	Mar. 13	1099	262	66	1673
Sheet-metal can and manufacturing same	J. Lee	518,548	Apr. 17	1924	475	67	3-3
Sheet-metal cans. Machine for forming and soldering	D. D. Ranney	518,375	Apr. 17	1642	405	67	333
Sheet-metal cans. Manufacturing	J. Lee	517,223	Mar. 27	2502	588	66	1970
Sheet-metal-flanging machine	J. Carroll	519,527	May 8	1077	258	67	755
Sheet-metal handle	M. Bersted	522,398	July 3	391	100	68	77
Sheet-metal. Making expanded	J. F. Golding	527,242	Oct. 9	922	222	69	187
Sheet-metal perforating machine	D. Henderson	524,203	Aug. 7	403	96	68	735
Sheet-metal pipe	J. W. Abrahams	526,663	Sept. 23	2328	556	68	1617
Sheet-metal pipe	C. S. Hamlin	518,570	Apr. 17	1963	485	67	390
Sheet-metal pipe	C. S. Hamlin	521,766	June 19	1812	430	67	1558
Sheet-metal pipe	J. Schmidt and J. Weitzel	525,061	Aug. 28	1897	465	68	1053
Sheet-metal plates. Machine for cutting	S. Y. Buckman	530,322	Dec. 4	431	107	69	1293
Sheet metal. Roller-die for forming weakened lines in	J. Zimmerman and J. K. Underdown	515,270	Feb. 20	2129	529	66	1225
Sheet-metal spinning. Machinery for	F. Haberman	517,382	Mar. 27	2761	650	66	2022
Sheet-metal-stamping machine	L. L. Sagendorph	519,555	May 8	1122	269	67	763
Sheet-metal tubes. Machine for making	J. Gould, Jr.	519,182	May 1	436	107	67	622
Sheet-metal tubes. Method of and machine for making	F. A. Juergens	523,073	July 17	1537	384	68	322
Sheet-metal vessel	J. Zimmerman and J. K. Underdown	515,103	Feb. 20	1841	464	66	1231
Sheet-metal vessel and making same. Key-opening.	J. Zimmerman	529,542	Nov. 20	1850	440	69	1022
Sheet-metal vessels. Attaching handles to	G. W. Knapp	524,854	Aug. 21	1519	371	68	968
Sheet-metal vessels. Attaching spouts to	G. W. Knapp	520,235	May 22	2279	554	67	1002
Sheet-metal vessels. Socket for	C. L. Wagandt	525,637	Sept. 4	524	127	68	1249
Sheet-metal-working machine	F. A. Walsh	512,342	Jan. 9	1009	247	66	202
Sheet separating and printing machine	C. Reising	525,999	Sept. 11	1178	268	68	1378
Sheet-shackle	F. Robinson	517,068	Mar. 27	2248	532	66	1920
Shelf and its support. Book-	B. R. Green	516,734	Mar. 20	1677	397	66	1796
Shelf. Book-	G. Wenker	517,503	Apr. 3	147	32	67	30
Shelf-bracket	T. Corscaden	512,635	Jan. 16	1588	331	66	327
Shelf-bracket	T. Corscaden	515,194	Feb. 20	1994	496	66	1259
Shelf-bracket	T. Corscaden	516,475	Mar. 13	1219	292	66	1696
Shelf. Extension	H. H. McLenathan	523,679	July 31	2617	651	68	550
Shelf. Folding	H. A. Payne	530,349	Dec. 4	486	120	69	1503
Shelf-hanger	D. M. Herman	529,791	Nov. 27	2246	536	69	1103
Shelf. Metallic	C. W. Marquardt	517,349	Mar. 27	2709	636	66	2011
Shelf roller. Book-	P. J. Pauly, Jr.	523,483	July 24	2277	572	68	471
Shelf structure	U. and W. R. Snead and W. M. Burns	520,191	May 22	2305	537	67	990
Shelving	A. B. Wagner and E. Liesenhoff	521,626	June 19	1563	365	67	1512
Shelving. Adjustable	P. J. Pauly, Jr., and H. Schneider	515,163	Feb. 20	1949	487	66	1252
Shell	R. A. Hadfield	522,012	June 26	2263	542	67	1659
Shell-carrier block	C. S. Hisey	523,093	Oct. 23	2386	576	69	485
Shells. Ejector mechanism for exploded	D. M. Lefever	525,272	Aug. 28	2241	547	68	1115
Shells for dynamite. Apparatus for automatically manufacturing	H. P. Hall	530,932	June 5	307	75	67	1253
Shells, tubes, &c. Machine for making.	B. Hewitt and R. Wootton	516,809	Mar. 20	1778	420	66	1815
Sheller:							
See Corn-sheller.	Peanut-sheller.						
Pea-sheller.							
Shield	T. Keely	523,209	July 17	1795	450	68	368
Shifting rail	H. C. Swan	526,507	Sept. 25	2076	494	68	1571
Shingle-bracket	J. W. Flowers	518,838	Apr. 24	2124	601	67	486
Shingle bunch and binder	W. J. Munro, J. Hart, and D. Batey	513,813	Jan. 30	3469	854	66	787
Shingle-gage	B. Hann	521,112	June 5	642	151	67	1312
Shingle-machine	T. C. Davis	517,795	Apr. 3	633	158	67	123
Shingle-marker	C. Guyer	520,424	May 29	2591	627	67	1078
Shingle. Metal roofing	L. Goodrich	512,188	Jan. 2	762	186	66	145
Shingle-package	M. J. Carkeek	524,479	Aug. 14	889	219	68	841
Shingle-planing machine	E. H. Kruger	520,695	Dec. 11	1104	268	69	1431
Shingle siding and machinery therefor. Manufacture of	L. H. Montross	529,661	Nov. 20	2033	488	69	1056
Shingle-strips. Machine for manufacturing supplementary metallic	C. H. Dana	526,299	Sept. 18	1699	400	68	1487
Shingles and headings. Machine for cutting	A. B. Ireland	525,049	Aug. 28	1877	459	68	1050
Ship	A. Foerste	523,518	July 24	2345	589	68	424
Ship or boat. Compoundable	H. Martini	522,348	July 3	297	77	68	50
Ships. Apparatus for moving and steering steam-	G. Wauters	514,527	Feb. 13	920	333	66	1044
Ships' bottoms. Sheathing	P. Inch	529,651	Nov. 20	2014	482	69	1052
Ships, &c. Construction of	L. M. Lincoln	525,349	Sept. 4	44	12	68	1159

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Ships. Construction of.....	S. Stuart.....	526,823	Oct. 2	251	61	69	47
Ships. Form of.....	A. Foerste.....	519,628	May 8	1252	301	67	7-6
Ship's hatch.....	A. McDougall.....	513,523	Jan. 30	2995	738	66	699
Ship's light and air port.....	T. Utley.....	523,251	July 17	1874	{ 470 214 471 215 }	68	373
Ship's log.....	F. A. Bishop.....	512,269	Jan. 9	890	{ 214 215 }	66	180
Ship's log.....	G. Thom.....	527,464	Oct. 16	1304	318	69	272
Shipping box.....	R. Niven.....	513,819	Jan. 30	3477	856	66	7-9
Shipping can.....	T. Lee.....	522,606	July 10	742	188	68	161
Shipping can.....	C. Wright.....	514,052	Feb. 6	122	29	66	876
Shipping case.....	J. M. Leaver and E. J. Vance.....	513,645	Jan. 30	3202	733	66	737
Shipping case.....	J. M. Leaver and E. J. Vance.....	513,646	Jan. 30	3203	753	66	737
Shipping case.....	J. M. Leaver and E. J. Vance.....	519,429	May 8	893	215	67	723
Shipping-cases. Knockdown rack for supporting	J. H. Bowley.....	525,186	Aug. 28	2123	517	68	1092
Shipping or service box or crate. Grocer's	R. B. Bain.....	523,355	Oct. 30	2842	689	69	582
Shirt.....	S. Deutsch.....	529,546	Nov. 20	1857	441	69	1023
Shirt.....	H. A. Hagen.....	521,610	June 19	1538	360	67	1507
Shirt.....	J. L. Knight.....	530,594	Dec. 11	930	228	69	1401
Shirt.....	T. H. MacDonald.....	529,181	Nov. 13	1185	285	69	881
Shirt.....	G. F. Pooley.....	523,593	July 24	2455	{ 615 616 }	68	505
Shirt.....	J. Stecker.....	530,974	Dec. 18	1565	371	69	1529
Shirt-bosom protector.....	E. H. Carleton, Jr.....	515,650	Feb. 27	2754	686	66	1417
Shirt-waist.....	J. Macgowan.....	514,720	Feb. 13	1251	312	65	1106
Shock-compressor.....	E. W. Newberry.....	518,350	Apr. 17	1592	394	67	324
Shoe.....	E. L. Goding.....	521,789	June 26	1849	440	67	1582
Shoe.....	H. A. Jewelsky.....	525,079	Aug. 28	1928	472	68	1050
Shoe.....	L. G. Kregel.....	526,626	Sept. 25	2260	541	68	1605
Shoe.....	L. G. Kregel.....	524,946	Aug. 21	1668	408	68	995
Shoe.....	S. Lissauer.....	515,547	Feb. 27	2594	642	66	1384
Shoe.....	T. F. Marshall.....	528,784	Nov. 6	466	114	69	731
Shoe.....	B. Scarinci.....	518,079	Apr. 10	1102	279	67	217
Shoe.....	B. Scarinci.....	519,556	May 8	1123	270	67	763
Shoe.....	B. Scarinci.....	529,964	Nov. 27	2549	614	69	1159
Shoe and making same.....	G. A. Knox.....	512,976	Jan. 16	2111	502	66	425
Shoe and making same.....	G. A. Richardson.....	513,368	Jan. 23	2716	660	66	612
Shoe. Ankle-supporting.....	J. M. Horn and M. Mayer.....	522,371	July 3	331	85	68	65
Shoe attachment.....	C. L. Weyand.....	518,682	Apr. 24	2156	539	67	439
Shoe-heading machine.....	A. I. Schmiedl.....	519,162	May 1	400	96	67	615
Shoe-cleaner.....	W. A. McCreery and J. Taylor.....	530,707	Dec. 11	1122	273	69	1434
Shoe-fastener.....	I. D. Wright.....	526,956	Oct. 2	470	116	69	89
Shoe-fastening.....	W. P. Case.....	513,085	Jan. 23	2261	546	66	523
Shoe-fastening.....	C. C. Eisenberg.....	523,517	July 24	2343	588	68	483
Shoe-fastening.....	T. U. Walter.....	521,686	June 19	1662	390	67	1531
Shoe-holder for nailing-machines.....	G. W. Stacy.....	519,208	May 1	485	{ 117 118 }	67	631
Shoe. Inside.....	J. H. Foss.....	520,417	May 29	2575	623	67	1076
Shoe-nailing machine.....	E. D. Childs.....	517,027	Mar. 27	2160	{ 511 512 }	66	1904
Shoe-patterns from lasts. Machine for describing.....	W. H. Baynard, Jr.....	523,193	July 17	1774	{ 444 445 }	68	364
Shoe plate or spike. Sheet metal.....	W. H. Buxton.....	527,403	Oct. 16	1194	293	69	250
Shoe-polisher.....	M. Christenson.....	524,414	Aug. 14	793	194	68	823
Shoe-polisher.....	H. Parsons.....	523,004	July 17	1428	357	68	301
Shoe-polishing machine.....	J. Friedlander.....	524,139	Aug. 7	297	69, 70	68	716
Shoe-protector.....	J. H. and F. W. Scholding.....	515,173	Feb. 20	1964	490	66	1254
Shoe-shanks. Machine for manufacturing.....	G. D. Bartlett.....	516,696	Mar. 20	1603	382	66	1783
Shoe-shanks. Sheets of metallic.....	G. D. Bartlett.....	518,304	Apr. 17	1491	373	67	306
Shoe-shaper.....	J. W. Skinner.....	531,393	Dec. 25	2324	554	69	1685
Shoestring-fastener.....	S. E. Blake.....	520,555	May 29	2812	679	67	1119
Shoestring-fastener.....	S. J. Simmons.....	514,284	Feb. 6	533	131	66	953
Shoestring-holder.....	H. T. Small.....	527,733	Oct. 16	1736	419	69	350
Shoe-support.....	W. L. Barrell.....	522,775	July 10	1049	259	68	214
Shoe. Turned.....	W. Gordon.....	523,634	July 24	2524	633	68	518
Shoe-uppers. Seam-hammering device for.....	A. I. Schmiedl.....	525,161	Aug. 28	2080	507	68	1084
Shoot-board and squaring-box. Combined.....	T. Owen.....	513,215	Dec. 18	2006	476	69	1610
Shot holding and measuring cabinet.....	H. T. Luster.....	513,803	Jan. 30	3452	851	66	753
Shot-spreader.....	H. E. Winans.....	519,559	May 8	1128	271	67	764
Shoulder and back bracing chair.....	L. Harvey and J. Amos.....	514,189	Feb. 6	357	85	66	920
Shoulder-brace.....	W. M. Gamble.....	531,372	Dec. 25	2291	{ 546 547 }	69	1679
Shoulder-brace.....	W. Greenshields.....	525,597	Sept. 4	464	111	68	1233
Shoulder-brace.....	H. E. Matthews.....	514,834	Feb. 13	1431	360	66	1141
Shovel.....							
See Cultivator-shovel. Steam-shovel.							
Excavator-shovel. Wooden shovel.							
Grain-shovel.....							
Shovel.....	C. Tanner.....	512,238	Jan. 2	839	203	66	159
Shovel, spade, or scoop socket.....	H. A. Chisholm.....	516,915	Mar. 20	1963	462	66	1-50
Shovels, spades, &c. Attachment for.....	T. Walsh.....	519,515	May 8	1033	250	67	747
Show and advertising stand. Revolving.....	G. Fuchs.....	524,107	Aug. 7	233	{ 54, 55 540 }	68	704
Show-case.....	A. Hulbert.....	526,625	Sept. 25	2259	{ 541 542 }	68	1605
Show-case.....	W. G. Irwin.....	517,342	Mar. 27	2698	633	66	2009
Show-case.....	J. Lochner.....	514,268	Feb. 6	506	126	66	918
Show-case and barrel-cover.....	H. Daub and D. J. Rex.....	527,323	Oct. 9	1062	257	69	211
Show-stand.....	L. J. Haagen.....	521,111	June 5	641	{ 150 151 }	67	1312
Show-top.....	S. S. Goldman.....	526,186	Sept. 18	1300	351	68	1448
Shut-off device. Pipe.....	J. F. Nelson.....	521,938	June 26	2113	507	67	1634
Shutter-bower.....	A. G. Christman.....	527,047	Oct. 9	617	149	69	131
Shutter-bower.....	H. Zimmerman.....	520,471	May 29	2670	645	67	1093
Shutter-bower.....	R. Zoll.....	516,148	Mar. 6	667	156	66	1577

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Shutter-fastener.....	J. W. Johnson.....	529,621	Nov. 20	1969	469	69	1045
Shutter-fastener.....	R. McNab.....	526,729	Oct. 2	97	24	69	21
Shutter-fastening.....	E. Wegmann, Jr.....	530,144	Dec. 4	113	29	69	1236
Shutter. Fireproof.....	I. Smith.....	522,861	July 10	1171	292	68	237
Shutter. Fireproof window.....	J. Stevens.....	514,515	Feb. 13	901	229	66	1041
Shutter. Focal-plane.....	J. E. Thornton and E. Pickard.....	529,820	Nov. 27	2308	549 } 550 }	69	1116
Shutter. Iris-diaphragm.....	P. Randolph and O. Näther.....	524,670	Aug. 14	1200	294	68	899
Shutter-opener. Automatic.....	C. Buerling.....	523,970	Aug. 7	5	2	68	663
Shutter-operating device.....	C. W. Enqvist.....	523,201	July 17	1784	448	68	366
Shutter, &c. Rolling.....	J. G. Wilson.....	529,771	Nov. 27	2217	528	69	1098
Shutter. Self-closing.....	W. W. Perkins.....	531,217	Dec. 18	2008	476	69	1610
Shutter. Window.....	S. E. Greene and S. W. Law.....	530,837	Dec. 11	1328	319	69	1473
Shutter. Window.....	D. Pobst.....	528,689	Nov. 6	302	74	69	701
Shutter-worker.....	O. De Champ.....	529,607	Nov. 20	1952	464	69	1041
Shutter worker and fastener.....	G. Andreen.....	524,016	Aug. 7	80	18	68	677
Shuttle and needle operating mechanism.....	V. Tomsa.....	514,792	Feb. 13	1365	342 } 343 }	66	1129
Shuttle-threader.....	A. Boulay.....	524,240	Aug. 7	458	107	68	745
Sickle-sections. Method of and machine for serrating.	M. Gindorff.....	524,965	Aug. 21	1694	415	68	999
Side light.....	C. Anderson.....	521,777	June 26	1835	437	67	1579
Sieve.....	J. N. Wilson.....	516,673	Mar. 20	1566	372	66	1777
Sieve. Ash.....	J. Goldman.....	517,139	Mar. 27	2357	556	66	1942
Sieve cut-off.....	W. A. Pendry.....	527,882	Oct. 23	2002	480	69	414
Sieve cut-off. Agitable.....	D. J. Davidson.....	527,834	Oct. 23	1901	456	69	397
Sieve. Grain cleaning and separating.....	C. Closs.....	520,873	June 5	221	50	67	1238
Sieve-scalper.....	G. L. Jarrett.....	511,847	Jan. 2	158	40	66	33
Sieves. Transporter for flat.....	H. Bittinger.....	512,796	Jan. 16	1797	427	66	367
Sifter.....	C. P. Eichler.....	524,892	Aug. 21	1575	385	68	978
Sifter. Ash.....	C. Kasper.....	520,886	June 5	244	57	67	1241
Sifter. Ash.....	F. A. Pearsons.....	529,947	Nov. 27	2514	605 } 606 }	69	1153
Sifter. Ash.....	L. Youngquist, F. L. N. Mehrtens, and A. Youngquist.....	517,636	Apr. 3	364	86	67	71
Sifter. Cinder.....	A. J. Henderson.....	521,344	June 12	1066	249	67	1405
Sifter. Flour.....	C. P. Eichler.....	513,489	Jan. 30	2931	722	66	688
Sifter. Flour.....	D. McKenzie.....	519,002	May 1	106	26	67	556
Sifter. Furnace ash.....	J. Keller.....	529,389	Nov. 20	1562	372	69	971
Sifter. Mechanical ash.....	W. Christie.....	514,261	Feb. 6	496	121	66	946
Sifter. Revolvable ash.....	F. Maull.....	514,764	Feb. 13	1319	328	66	1120
Sifter. Rotary ash.....	G. P. Harrison.....	516,971	Mar. 20	2053	485	66	1868
Sifting machine. Ash.....	C. E. French.....	515,399	Feb. 27	2361	586	66	1341
Sight-testing apparatus. Coin-operated.....	B. Green.....	525,652	Sept. 4	555	133 } 134 } 135 }	68	1254
Sigmoid irrigator.....	G. B. Sweger.....	520,275	May 22	2350	570	67	1017
Sign.....	E. Böhm.....	524,752	Aug. 21	1345	328	68	937
Sign.....	C. F. Webster.....	528,196	Oct. 30	2568	621	69	533
Sign. Endless.....	J. M. Long.....	526,905	Oct. 2	397	100	69	74
Sign. Fence.....	J. W. Wilson.....	515,945	Mar. 6	332	79	66	1515
Sign. Luminous.....	W. Hoskins.....	529,073	Nov. 13	999	239	69	847
Sign. Revolving-pole.....	M. H. Wilson.....	531,402	Dec. 25	2337	557	69	1688
Sign-staff.....	G. O. Fogg.....	518,780	Apr. 24	2332	578 } 579 }	67	470
Sign. Street.....	H. H. Baker.....	530,497	Dec. 11	748	184	69	1369
Sign. Street-car.....	E. J. Rauch and W. A. Keith.....	515,967	Mar. 6	31	88	66	1522
Signs. Manufacturing.....	R. Schlegel.....	530,354	Dec. 4	492	122	69	1304
Signal:							
See Air-brake signal. Railway-signal.							
Alarm-signal. Railway block-signal.							
Annunciator-signal. Railway-crossing danger-signal.							
Bicycle-signal. Railway flag-signal.							
Block-signal. Railway fog-signal.							
Bridge-signal. Railway-switch signal.							
Car-signal. Railway time-signal.							
Danger-signal. Semaphore-signal.							
Electric signal. Switch-signal.							
Grave-signal. Three-position signal.							
Marine signal. Track-signal.							
Police-signal.							
Signal.....	E. H. Goodman.....	527,967	Oct. 23	2164	520	69	445
Signal.....	W. P. Squier.....	519,009	May 1	113	27	67	557
Signal apparatus.....	J. P. Coleman.....	526,179	Sept. 18	1485	347	68	1446
Signal apparatus.....	C. E. Ongley.....	530,122	Dec. 4	82	22	69	1230
Signal apparatus.....	G. L. Thomas and E. C. Seward.....	526,168	Sept. 18	1469	343	68	1443
Signal apparatus. American district electric.....	C. E. Scribner.....	512,400	Jan. 9	1113	269 } 270 }	66	222
Signal apparatus. Electric.....	W. W. Salmon.....	526,414	Sept. 25	1930	460	68	1544
Signal apparatus. Electric.....	W. W. Salmon.....	526,415	Sept. 25	1932	460	68	1544
Signal apparatus. Electric.....	H. E. Walter.....	529,984	Nov. 27	2583	623 } 624 }	69	1167
Signal apparatus. Electrical.....	G. W. Hey.....	514,461	Feb. 13	798	205 } 206 }	66	1022
Signal-box. Electric.....	T. F. Gaynor.....	515,762	Mar. 6	53	13	66	1464
Signal-box. Electric.....	W. W. Hibbard.....	523,123	July 17	1643	411	68	342
Signal-box. Electric.....	W. W. Hibbard.....	523,124	July 17	1647	412	68	342
Signal-boxes. Means for testing electric.....	J. F. Mehren.....	523,798	July 31	2831	703	68	589
Signal-compensator.....	J. G. Schreuder.....	515,722	Feb. 27	2875	717	66	1440
Signal device. Safety switch.....	H. M. Abernethy and J. M. Graham.....	521,690	June 19	1667	391	67	1532
Signal device. Visible.....	W. H. Lane and F. S. Perrin.....	520,365	May 22	2500	605	67	1046
Signal-light fixture.....	W. Carter, J. W. Dawson, and J. Meyrick, Jr.....	520,820	June 5	114	25	67	1218
Signal-operating rods. Adjusting device for.....	G. A. Weber.....	524,429	Aug. 14	812	198	68	827
Signal-operating wires. Compensator for.....	J. S. Lynam.....	521,885	June 26	2000	482	67	1613

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Signal-operating wires. Compensator for.....	J. S. Lynam and G. F. Adams.....	528,962	Nov. 13	814	190	69	815
Signal-operating wires. Compensator for.....	J. S. Lynam and G. F. Adams.....	529,332	Nov. 13	1445	348	69	930
Signal recorder. Whistle.....	C. E. Ongley.....	530,121	Dec. 4	81	22	69	1230
Signal-recording device.....	W. H. Adkins.....	527,258	Oct. 9	951	231	69	191
Signal-replacer.....	W. R. Sykes, Jr., and J. P. O'Donnell.....	528,997	Nov. 13	869	206	69	825
Signal-switch. Pneumatic.....	J. Schnepf.....	514,503	Feb. 13	884	225	66	1037
Signal system. Block.....	G. L. Thomas.....	523,491	July 24	2290	576 577 578	68	473
Signal systems. Differentiating apparatus for electric.....	W. W. Hibbard.....	523,122	July 17	1641	410 411	68	342
Signals. Electrical apparatus for controlling.....	S. S. Bogart and M. B. Leonard.....	529,059	Nov. 13	970	229	69	842
Signals. Electrical apparatus for controlling.....	M. B. Leonard.....	517,419	Mar. 27	2860	670	66	2041
Signaling and communication. System for.....	T. F. Gaynor.....	515,761	Mar. 6	44	13	69	1463
Signaling apparatus.....	J. W. English.....	515,665	Feb. 27	2778	692	66	1422
Signaling apparatus.....	O. D. and M. A. Kleinstaubert.....	515,589	Feb. 27	2659	660	66	1398
Signaling apparatus.....	B. J. Noyes.....	530,236	Dec. 4	287	71	69	1267
Signaling apparatus.....	E. R. Wilder.....	514,297	Feb. 6	560	140	66	958
Signaling apparatus. Electric.....	J. P. Coleman. (Reissue).....	11,428	July 10	1339	332 333	68	270
Signaling apparatus. Electric.....	W. W. Hibbard.....	523,120	July 17	1631	408 409	68	341
Signaling apparatus. Electric.....	W. W. Hibbard.....	523,121	July 17	1635	409 410	68	341
Signaling apparatus. Electric.....	H. E. Walter.....	529,985	Nov. 27	2597	624 625	69	1171
Signaling apparatus. Electric.....	H. E. Walter.....	529,986	Nov. 27	2601	625	69	1171
Signaling apparatus. Electrical time.....	J. H. Gerry.....	513,262	Jan. 23	2560	616 617 618	66	582
Signaling apparatus for block systems. Electric.....	M. S. Reiley.....	528,444	Oct. 30	2993	723 724	69	609
Signaling device. Automatic electric.....	E. A. Hermann.....	524,548	Aug. 14	1008	248 249	68	863
Signaling device. Electric.....	J. N. Connolly.....	514,212	Feb. 6	414	100	66	930
Signaling device for crossings. Automatic electric.....	E. A. Hermann.....	518,525	Apr. 17	1887	467 468	67	377
Signaling. Submarine.....	L. I. Blake.....	524,239	Aug. 7	457	107	68	745
Signaling. Submarine.....	L. I. Blake.....	526,609	Sept. 25	2236	534	68	1600
Signaling system.....	J. G. Noyes and L. Winterbalder.....	514,128	Feb. 6	236	56, 57	66	899
Signaling system and apparatus. Electric time.....	W. A. Pincell.....	532,029	June 26	2263	547	67	1663
Signaling system. Electrical.....	B. A. Fiske.....	527,958	Oct. 23	2164	516	69	442
Signaling system. Electrical danger.....	W. A. Phillips.....	529,949	Nov. 27	2517	606 607	69	1154
Signaling system. Fluid-pressure.....	H. R. Mason.....	512,889	Jan. 16	1966	467	66	399
Signaling system. Train-operated.....	J. H. Frischen.....	529,165	Nov. 13	1149	277	69	876
Signaling systems. Circuit-changer for electric.....	J. F. Hunter and S. H. Lough.....	528,127	Oct. 23	2450	592	69	496
Signaling transmitter. Automatic.....	R. Callender.....	515,110	Feb. 20	1856	466 467	66	1234
Signature-press.....	C. Seybold.....	514,872	Feb. 13	1491	374	66	1152
Silk. Manufacturing artificial.....	H. de Chardonnet.....	531,158	Dec. 18	1894		69	1590
Silk or thread holding device.....	L. O. Smith.....	531,475	Dec. 25	2476	589 590	69	1714
Silks, &c. Holding device for embroidery.....	L. O. Smith.....	530,628	Dec. 11	987	242	69	1411
Silver-plating. Composition for.....	G. W. Odell.....	514,958	Feb. 20	1624		66	1193
Sink.....	B. F. Ford.....	521,406	June 12	1159	275	67	1424
Sink-trap.....	H. C. Montgomery.....	528,335	Oct. 30	2807	678	69	576
Sinks. Outlet connection for steel.....	J. Clifford.....	512,864	Jan. 16	1928	456	66	392
Siphon.....	J. A. Camp.....	518,663	Apr. 24	2121	532	67	433
Siphon.....	H. Fleiner.....	523,739	July 31	2726	675	68	569
Siphon.....	B. Greve.....	518,064	Apr. 10	1086	274	67	214
Siphon.....	S. W. Lewis.....	515,527	Feb. 27	2562	635	66	1378
Siphon.....	G. Seifert.....	514,733	Feb. 13	1272	317	66	1111
Siphon.....	H. H. Shufelt.....	530,606	Dec. 11	950	233	69	1404
Siphon.....	R. Thayer.....	523,418	July 24	2148	539	68	449
Siphon. Regenerative.....	F. Lamplough.....	530,536	Dec. 11	829	207	69	1383
Sirups. Apparatus for making.....	R. H. Hunstock.....	523,529	July 24	2360	592	68	487
Sirup-cup for bottlers.....	G. House, Sr.....	529,735	Nov. 27	2158	515	69	1087
Sirup-purifier.....	J. Naylor, Jr.....	529,662	Nov. 20	2035	488	69	1056
Sizing walls. Composition for.....	R. J. Sisk.....	530,557	Dec. 11	869		69	1390
Skate.....	J. Forbes.....	522,321	July 3	249	66	68	50
Skate.....	A. A. Johnson.....	526,655	Sept. 25	2312	553	68	1614
Skate.....	F. Kalkner.....	518,251	Apr. 17	1408	352	67	290
Skate.....	L. W. Kenney.....	521,375	June 12	1113	263	67	1414
Skate.....	W. H. Nicholls.....	530,711	Dec. 11	1127	274	69	1435
Skate.....	C. J. Wezen.....	530,610	Dec. 11	956	235	69	1406
Skate.....	J. L. Whelpley.....	521,489	June 19	1328	309	67	1470
Skate-blade and manufacturing same.....	T. W. Bryant.....	524,129	Aug. 7	277	65	68	713
Skate-plane.....	W. B. Lynch.....	522,994	July 17	1411	352	68	298
Skate. Roller.....	S. W. Finch.....	515,490	Feb. 27	2500	619	66	1366
Skate. Roller.....	J. A. Segerberg.....	527,164	Oct. 9	796	194	69	162
Skate-sharpening device.....	O. F. Knowles and H. H. Miller.....	512,382	Jan. 9	1077	262	66	215
Skate-sharpening device.....	F. V. Taylor.....	527,350	Oct. 9	1102	269	69	219
Skate-wheel.....	A. J. Mauermann.....	516,502	Mar. 13	1270	302	66	1705
Skate. Wheel or roller.....	J. G. A. Kitchen.....	525,270	Aug. 28	2238	546	68	1114
Skates. Self-acting brake for roller.....	J. Riedel.....	521,181	June 12	763	178	67	1348
Skating-rink.....	M. T. Mead and S. M. Clemens.....	517,823	Apr. 3	674		67	131
Skinning-knife.....	M. Cahen.....	518,223	Apr. 17	1367	342	67	283
Skinning-knife.....	J. A. Foster.....	525,737	Sept. 11	728	168	68	1297
Skins. Machine for softening.....	G. Geyer.....	531,462	Dec. 25	2456	5-5	69	1710
Skins. Process of and apparatus for unhairing.....	C. L. Puech.....	519,345	May 8	748	185	67	696
Skirt and trousers. Combined.....	B. Zeller and H. Crager.....	521,998	June 26	2238	537	67	1655
Skirt. Dress.....	M. C. Geldowsky.....	529,828	Nov. 27	2316	552	69	1118

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Skirt-elevator.....	A. L. Zeller.....	528,455	Oct. 30	3015	728	69	613
Skirt-extender.....	G. W. Lockwood.....	514,861	Feb. 13	1471	370	66	1149
Skirt-protecting garment.....	L. Sittig.....	520,225	May 22	2263	551	67	1000
Skiving-machine.....	C. H. Bayley.....	518,774	Apr. 24	2323	576	67	468
Skiving-machine.....	J. R. Scott.....	528,448	Oct. 30	3002	{ 725 726 }	69	610
Skylight.....	C. Bordt.....	519,169	May 1	414	101	67	617
Slack-adjuster.....	H. Hinckley.....	531,034	Dec. 18	1665	{ 395 396 }	69	1548
Slag. Apparatus for removing.....	O. Stalman.....	512,761	Jan. 16	1747	414	66	357
Slat-and-wire fabric.....	J. S. George.....	527,550	Oct. 16	1439	350	69	296
Slat-fastener.....	C. I. J. Barker.....	511,922	Jan. 2	334	78	66	64
Slate attachment.....	J. M. Davis.....	514,117	Feb. 6	220	51	66	896
Slate cleaner and drier.....	R. B. Berk.....	524,158	Aug. 7	332	78	68	722
Slate-dressing machine.....	S. D. Van Pelt.....	512,134	Jan. 2	671	160	66	128
Slate-frame.....	J. H. Rudolph.....	524,353	Aug. 14	650	165	68	801
Slate. Noiseless.....	C. F. Kiz-r and S. N. Murdock.....	529,867	Nov. 27	2382	570	69	1130
Slate. School.....	E. L. Lloyd.....	518,761	Apr. 24	2302	571	67	464
Slates. Putting colored lines on school.....	W. A. Stocker.....	523,604	July 24	2469	68	507	
Sled.....	J. Höfer.....	522,060	June 26	2330	560	67	1672
Sled.....	A. Rogers.....	512,123	Jan. 2	655	157	66	126
Sled. Coasting.....	J. H. Holt.....	529,494	Nov. 20	1765	420	69	1006
Sled-propeller.....	W. E. Prindle.....	531,274	Dec. 18	2106	506	69	1628
Sled-propeller.....	O. H. C. Voigt.....	519,596	May 8	1191	288	67	776
Sleeve holder. Under-coat.....	J. Hoffman.....	526,573	Sept. 25	2176	520	68	1588
Sleeve-section and cuff. Combined.....	G. S. Grier.....	520,308	May 22	2396	582	67	1025
Sleigh.....	H. P. Jensen.....	530,948	Dec. 18	1517	359	69	1522
Sleigh.....	D. R. McLaren.....	512,259	Jan. 2	870	210	66	164
Sleigh.....	S. E. Oviatt.....	519,004	May 1	107	26	67	556
Sleigh.....	R. W. Walker.....	528,831	Nov. 6	573	136	69	750
Sleigh and wagon. Combined.....	{ A. Czora, C. K. Ernst, Jr., and C. J. Dernbraek. }	522,973	July 17	1373	{ 341 342 }	68	291
Sleigh. Bob.....	J. H. Jackson.....	516,094	Mar. 6	521	136	66	1561
Sleigh. Bob.....	S. C. Paulson.....	526,938	Oct. 2	451	111	69	85
Sleigh-knee.....	L. L. Chaffin.....	527,319	Oct. 9	1055	255	69	210
Sleigh-knee socket.....	B. F. Sweet.....	517,076	Mar. 27	2257	534	66	1923
Sleigh-nose.....	A. Hurtubise.....	514,469	Feb. 13	826	209	66	1026
Sleigh-runner.....	H. and J. K. Pangborn.....	528,606	Nov. 6	143	35	69	673
Sleigh-runner attachment.....	H. J. Howard.....	521,794	June 26	1858	444	67	1584
Sleigh. Tubular.....	J. S. Johnson.....	521,717	June 19	1711	404	67	1542
Slicer and grater. Combined vegetable.....	E. S. Harpst.....	522,756	July 10	1024	253	68	208
Slicer or grater. Vegetable.....	H. O. Barlow.....	519,224	May 1	513	124	67	637
Slicer. Potato.....	C. B. Struble and C. S. Turner.....	527,253	Oct. 9	940	298	69	190
Slicer. Vegetable.....	N. and T. Heneault.....	521,540	June 19	1414	328	67	1485
Slicer. Vegetable.....	P. L. Mars.....	522,266	July 3	161	43	68	33
Slicer. Vegetable.....	E. D. Sibbrel and F. Longabach.....	513,833	Jan. 30	3502	862	66	794
Slicing-machine.....	J. E. Austin.....	528,247	Oct. 30	2663	641	69	551
Slicing-machine.....	A. and A. Iske.....	519,959	May 15	1780	436	67	898
Slicing machine. Vegetable.....	A. C. Cook.....	524,575	Aug. 14	1045	258	68	869
Slide and buckle. Combined.....	D. Carpenter.....	528,628	Nov. 6	182	44	69	679
Sliding and swinging gate.....	T. C. Long.....	513,191	Jan. 23	2432	{ 557 558 }	66	557
Sliding gate.....	D. Fulton.....	528,934	Nov. 13	764	180	69	806
Sliding gate.....	W. H. Hopkins and G. B. Simons.....	512,296	Jan. 9	938	228	66	190
Sliding gate.....	W. Woods.....	518,128	Apr. 10	1184	296	67	232
Slipper.....	B. Scarinci.....	518,078	Apr. 10	1101	279	67	217
Slip-jar mouthpiece.....	L. W. Seoville and W. W. Dornin.....	523,488	July 24	2286	575	68	473
Slubbing and roving machines. Means for driving.....	J. Ashton and J. Moorhouse.....	514,693	Feb. 13	1197	298	66	1097
Smelting.....	W. L. Austin.....	527,312	Oct. 9	1042	69	207	
Smelting and refining apparatus. Copper.....	J. C. Bull.....	520,631	May 29	2933	709	67	1141
Smelting and refining furnace. Ore.....	L. R. Bonehill.....	518,874	Apr. 24	2479	614	67	497
Smelting and separating furnace.....	L. R. Bonehill.....	515,727	Feb. 27	2280	719	66	1441
Smelting apparatus. Ore.....	B. Brazelle.....	529,476	Nov. 20	1727	412	69	1000
Smelting-furnace and refining-converter.....	C. M. Allen.....	519,221	May 1	510	124	67	636
Smelting ores.....	H. Lang.....	519,129	May 1	339	67	603	
Smelting titanite iron ore. Method of and composition of matter for.....	J. L. Randall.....	528,804	Nov. 6	504	69	738	
Smocking cloth. Clasp for.....	F. S. Pinkham.....	520,704	May 29	3073	744	67	1167
Smoke-abating furnace.....	T. M. Gallagher.....	512,183	Jan. 2	753	183	66	144
Smoke and gas consuming furnace.....	G. E. McCaskey.....	515,441	Feb. 27	2429	602	66	1354
Smoke and spark arrester.....	E. R. Jones.....	517,220	Mar. 27	2498	587	66	1970
Smoke. Apparatus for removing impurities from.....	E. v. Reiss.....	517,297	Mar. 27	2626	616	66	1994
Smoke-arrester.....	W. P. Shank.....	521,054	June 5	540	127	67	1295
Smoke-bleaching apparatus.....	J. T. Sauds.....	526,542	Sept. 25	2127	510	68	1580
Smoke catcher and separator.....	F. L. McGahan.....	515,528	Feb. 27	2564	635	66	1379
Smoke-consumer.....	H. Delaney.....	517,917	Apr. 10	821	206	67	172
Smoke-consumer.....	T. Gunning.....	514,457	Feb. 13	794	204	66	1021
Smoke-consumer.....	N. Harper.....	512,879	Jan. 16	1950	{ 462 463 }	66	396
Smoke-consumer.....	J. L. Johnson.....	512,881	Jan. 16	1950	465	66	398
Smoke-consumer.....	H. F. Ray and A. Dewey.....	525,059	Aug. 23	1891	464	68	1053
Smoke-consumer.....	G. Rhoden.....	517,238	Mar. 27	2523	593	66	1975
Smoke-consumer.....	F. S. Sejnoha.....	520,453	May 29	2637	{ 637 638 }	67	1087
Smoke-consuming apparatus.....	L. Hallbauer.....	523,035	July 17	1486	370	68	312
Smoke-consuming apparatus.....	C. W. Morris and L. Goodwin.....	526,085	Sept. 18	1330	309	68	1418
Smoke-consuming furnace.....	S. T. Armstrong.....	517,324	Mar. 27	2669	626	66	2002
Smoke-consuming furnace.....	I. W. Beckwith.....	513,070	Jan. 23	2245	541	66	519
Smoke-consuming furnace.....	J. F. Chazotte.....	517,540	Apr. 3	199	45	67	40
Smoke-consuming furnace.....	T. Dark, Sr.....	519,079	May 1	241	56, 57	67	582
Smoke-consuming furnace.....	H. Engel.....	524,317	Aug. 14	596	143	68	789
Smoke-consuming furnace.....	M. Evans.....	531,367	Dec. 25	2383	{ 514 545 }	69	1677
Smoke-consuming furnace.....	M. Fulton.....	519,530	May 8	1084	259	67	756

Alphabetical list of inventions—Continued.

Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Smoke-consuming furnace	J. Graham	521,586	June 19	1496	{ 350 351 }	67	1499
Smoke-consuming furnace	J. M. Thomas	519,779	May 15	1492	361	67	844
Smoke-consuming furnace	E. Walsh	515,384	Feb. 27	2338	520	66	1337
Smoke-consuming furnace	J. M. Williams	521,750	June 19	1784	423	67	1534
Smoke-conveyer	K. M. Stahl	511,813	Jan. 2	100	25	66	22
Smokeless furnace	C. Murray	526,193	Sept. 18	1518	356	68	1431
Smoke-preventing furnace	J. A. Baldwin	518,576	Apr. 17	1969	{ 487 488 487 }	67	391
Smoke-preventing furnace	S. N. Smith	527,895	Oct. 23	2023	{ 486 487 }	69	419
Smoke-preventing furnace	C. L. Stacy	513,154	Jan. 23	2378	573	66	547
Smoke-stack hood	C. R. Peirce and F. B. English	516,062	Mar. 6	537	125	66	1532
Smoke-stacks. Device for increasing draft in	R. Gaul	522,009	June 26	2259	511	67	1658
Smoke-stacks or chimneys. Apparatus for producing draft in	R. Gaul	512,508	Jan. 9	1309	316	66	259
Smokeless boiler	W. S. Plummer	514,869	Feb. 13	1484	373	66	1151
Smokeless furnace and stoker	J. E. Schlieper and J. H. Harrison	519,683	May 8	1341	{ 323 324 }	67	802
Smokeless powder	E. A. Starke	513,737	Jan. 30	3369	.....	66	766
Smokers' use. Article or accessory for	R. S. Peabody	529,046	Nov. 13	949	224	69	838
Smoking apparatus. Mouthpiece and stem for	W. O'Brien	520,700	May 29	3066	{ 742 743 }	67	1166
Smoothing and pressing iron	J. Jensen	512,032	Jan. 2	507	120	66	97
Snap-hook	R. A. Brenl	518,485	Apr. 17	1818	450	67	364
Snap-hook	C. B. Bristol	519,524	May 8	1074	257	67	754
Snap-hook	J. C. Covert	530,750	Dec. 11	1193	290	69	1447
Snap-hook	R. C., H. M., and L. W. Eldridge	528,270	Oct. 30	2694	649	69	557
Snap-hook	M. N. Judd	527,498	Oct. 16	1351	330	69	281
Snap-hook	T. Lacey	525,607	Sept. 4	478	114	68	1241
Snap-hook	C. N. Perkins and J. P. Scollay	527,286	Oct. 9	1001	243	69	200
Snap-hook	J. Pickett	521,387	June 12	1127	266	67	1417
Snap-hook	R. J. Reed and S. O. Carothers	513,652	Jan. 30	3223	791	66	740
Snap-hook	F. and I. F. White	527,570	Oct. 16	1466	357	69	301
Snap-rest	R. Good, Jr.	531,526	Dec. 25	2560	612	69	1730
Snap-switch. Double-throw	E. M. Hewlett	524,384	Aug. 14	731	177	68	812
Snatch-block	T. R. Ferrall	516,192	Mar. 13	752	176	66	1609
Snatch-block	H. V. Hartz	516,268	Mar. 13	877	205	66	1633
Snow-cleaning attachment for locomotive-engines	M. F. Mauden	521,544	June 19	1420	330	67	1486
Snow-guard	J. Baird	529,774	Nov. 27	2219	529	69	1099
Snow-guard	G. F. Folsom	512,178	Jan. 2	746	182	66	142
Snow-guard	G. F. Folsom	512,179	Jan. 2	747	182	66	143
Snow-melting apparatus	G. T. McCormick	512,388	Jan. 9	1005	265	66	219
Snow-melting apparatus	G. T. McCormick	514,662	Feb. 13	1182	295	66	1094
Snow or ice melting apparatus	C. F. Springfels	520,941	June 5	352	85	67	1261
Snow-plow	A. M. Burnham	530,614	Dec. 11	963	336	69	1406
Snow-plow	W. Grunow, Jr.	520,777	June 5	27	6	67	1201
Snow-plow	H. H. Kryger	520,021	May 15	1883	461	67	916
Snow-plow	M. L. Stewart	525,165	Aug. 28	2084	508	68	1085
Snow-plow	W. F. Wheeler	518,749	Apr. 24	2285	{ 507 508 506 }	67	461
Snow-plow. Electric	L. J. Hirt	523,471	July 24	2255	{ 507 508 506 }	68	467
Snow-plow for street-railways	F. W. Dean and W. E. Mathews	527,523	Oct. 16	1397	340	69	288
Snow-plow. Railway	J. Kallauner	523,208	July 17	1793	450	68	363
Snow-plow. Rotary	W. O. Wood	530,739	Dec. 11	1176	{ 286 287 }	69	1413
Snow-shelter	C. Klanke	514,999	Feb. 20	1683	422	66	1203
Snow-shoe. Folding	H. Bremer	526,216	Sept. 18	1561	366	68	1460
Snow-wheel. Centrifugal	N. McKay	529,042	Nov. 13	941	{ 222 223 }	69	837
Soap-distributor	W. F. Ross and W. Wilcklow	531,599	Dec. 23	2683	644	69	1755
Soap-drying apparatus	M. Andrae	525,572	Sept. 4	428	102	68	1231
Soap for toilet purposes. Apparatus for dispensing liquid	E. Lee	517,978	Apr. 10	928	232	67	190
Soap-holder. Coin-controlled	C. S. Higgins	516,531	Mar. 13	1323	315	66	1715
Soap. Inserting floats in cakes of	W. Berry	526,068	Sept. 18	1300	301	68	1413
Soap-lye. Recovering products from spent	J. Van Ruymbeke	522,134	June 26	2454	59	67	1695
Soap powder, &c. Package for	D. H. Greene	512,581	Jan. 9	1412	340	66	278
Soap-press	M. J. Palmer	525,391	Sept. 4	124	32	68	1173
Soap pressing and stamping machine	D. C. Ralston	517,064	Mar. 27	2236	530	66	1918
Soap pressing or stamping machine	E. Elbert	525,070	Aug. 28	1912	468	68	1056
Soap server. Toilet	H. B. Potter	517,624	Apr. 3	340	{ 81 80 }	67	66
Sod cutter and crusher	D. E. Reardon	514,335	Feb. 6	617	157	66	968
Soda apparatus. Automatic heat-regulator for hot-	J. W. Tufts and W. Helmer	519,440	May 8	910	219	67	726
Soda-ash. Apparatus for drying, roasting, and calcining	J. R. and H. Watson	527,912	Oct. 23	2055	493	69	425
Soda crystals. Making	H. R. Browne	516,075	Mar. 6	552	.....	66	1556
Soda-fountain	T. C. Riley	515,056	Feb. 20	1777	448	66	1219
Soda-fountain	T. C. Riley	515,057	Feb. 20	1779	448	66	1219
Soda-fountain	T. C. Riley	519,433	May 8	899	216	67	724
Soda-fountain	T. C. Riley	519,434	May 8	900	217	67	724
Soda-water-dispensing apparatus	A. O'Hara	512,989	Jan. 16	2129	506	66	428
Soda-water. Fountain for the distribution of	W. H. Ricker	512,058	Jan. 2	546	128	66	104
Sofa and bed. Combined	B. T. Lawton	524,720	Aug. 21	1291	{ 316 317 }	68	928
Soil-breaking machine	W. H. Ross	529,959	Nov. 27	2539	612	69	1158
Soil-pipe	J. T. and T. R. Brien	518,583	Apr. 24	1989	492	67	410
Soil-working machine	G. M. Clark	512,276	Jan. 9	901	218	66	183
Solar energy. Apparatus for utilizing	F. H. Monks and M. L. Severy	528,255	Oct. 30	2676	645	69	554
Solder for use with aluminium and its alloys	R. I. Roman	513,654	Jan. 30	3227	66	741

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Soldering and testing plant. Can.....	N. L. Bishop.....	531,501	Dec. 25	2518	{ 601 602 603	{ 69	1722
Soldering apparatus.....	F. H. Lippincott.....	513,518	Jan. 30	2981	{ 734 667	{ 66	697
Soldering caps on cans. Machine for.....	M. J. Hawkins.....	530,523	May 29	2755	{ 666 667	{ 67	1108
Soldering composition.....	H. Willoughby.....	514,107	Feb. 6	205	{ 349 350	{ 66	893
Soldering-flux. Device for applying.....	D. M. Monroe.....	529,336	Nov. 13	1449	{ 349 350	{ 69	931
Soldering-iron.....	R. B. Vanderburg.....	513,222	Jan. 23	2476	{ 598 179	{ 66	565
Soldering-iron furnace and gas-heater.....	J. B. Laurent.....	530,488	Dec. 4	733	{ 179 72	{ 69	1248
Soldering-iron. Self-heating.....	T. W. Eversole.....	525,494	Sept. 4	290	{ 72 22	{ 68	1205
Soldering-iron. Self-heating.....	W. Ross.....	511,802	Jan. 2	87	{ 22 261	{ 66	19
Soldering-machine.....	C. M. Brown.....	522,778	July 10	1055	{ 260 261	{ 68	215
Soldering-machine.....	H. Miller.....	531,419	Dec. 25	2365	{ 565 566	{ 69	1693
Soldering machine. Can.....	J. G. Hodgson.....	522,257	July 3	142	{ 34 35	{ 68	28
Soldering machine. Can.....	J. G. Hodgson.....	522,258	July 3	143	{ 35 36	{ 68	28
Soldering machine. Can.....	M. Jensen.....	516,308	Mar. 13	932	{ 219 289	{ 66	1643
Soldering machine. Can.....	J. W. Roberts.....	521,896	June 26	2031	{ 490 83	{ 67	1619
Soldering machine. Can.....	C. M. Symonds.....	525,521	Sept. 4	335	{ 83 489	{ 68	1213
Soldering machine. Can.....	I. H. Taylor.....	516,980	Mar. 20	2065	{ 489 116	{ 66	1870
Soldering machine. Can-head.....	W. H. Smyth.....	519,206	May 1	479	{ 116 33	{ 67	629
Soldering machine. Side-seam.....	J. G. Hodgson.....	522,256	July 3	138	{ 33 34	{ 68	27
Soldering-tool.....	D. G. Orr and C. E. Thomas.....	520,701	May 29	3068	{ 743 496	{ 67	1166
Soldering-tool. Electric.....	J. F. McLaughlin.....	521,914	June 26	2064	{ 496 607	{ 67	1625
Soldier's field equipment.....	G. H. Palmer.....	518,856	Apr. 24	2449	{ 607 272	{ 67	491
Sole.....	W. A. Ford.....	518,060	Apr. 10	1075	{ 272 635	{ 67	213
Sole and heel plate.....	J. S. Kilgore.....	518,923	Apr. 24	2569	{ 635 662	{ 67	514
Sole channeling and rounding-out machine.....	G. F. Fischer.....	530,072	Nov. 27	2760	{ 662 663	{ 69	1202
Sole-channeling knife.....	W. H. Illsley and J. Cook.....	525,216	Aug. 22	2164	{ 528 1086	{ 68	1099
Sole-channeling machine.....	J. F. Noonan.....	522,799	July 10	1086	{ 268 497	{ 68	221
Sole-cutting die.....	R. R. Gibbs.....	518,596	Apr. 24	2006	{ 497 443	{ 67	413
Sole-cutting machine.....	J. J. Heys.....	521,793	June 26	1855	{ 443 444	{ 67	1524
Sole-cutting machine feeding attachment.....	M. E. Knight.....	514,278	Aug. 7	521	{ 122 240	{ 68	755
Sole for slippers or shoes.....	J. K. Griffith.....	527,280	Oct. 9	993	{ 241 240	{ 69	198
Sole leveling and burnishing machine.....	E. C. Judd.....	519,127	May 1	445	{ 109 601	{ 67	623
Sole-leveling machine.....	E. C. Judd.....	530,421	Dec. 4	601	{ 149 259	{ 69	1325
Sole-leveling machine.....	W. L. Barrell.....	522,776	July 10	1050	{ 259 260	{ 68	214
Sole-leveling machine.....	E. C. Judd and F. W. McArdle.....	523,285	July 17	1922	{ 483 374	{ 68	392
Sole-rounding machine.....	J. A. Crane.....	516,676	Mar. 20	1573	{ 375 395	{ 66	1778
Sole-rounding machine.....	L. E. Ericson.....	527,676	Oct. 16	1640	{ 395 592	{ 69	332
Sole-rounding machine.....	G. Julian.....	528,128	Oct. 23	2452	{ 592 593	{ 69	497
Sole-rounding machine.....	J. N. Moulton.....	522,166	June 26	2513	{ 603 604	{ 67	1707
Sole-rounding machines. Knife-holder for.....	A. E. Perry.....	518,789	Apr. 24	2345	{ 581 1708	{ 67	472
Sole-rounding machines. Knife-holder for.....	L. E. Ericson.....	523,162	July 17	1708	{ 429 1364	{ 68	353
Sole-slitting machine.....	L. P. Hawkins.....	514,364	Feb. 6	658	{ 167 738	{ 66	977
Sole-trimming machine.....	J. B. Emery.....	528,467	Oct. 30	3041	{ 738 576	{ 69	618
Soles and other forms. Machine for cutting.....	A. M. Stickney.....	529,883	Nov. 27	2406	{ 577 395	{ 69	1135
Soot-preventing composition.....	R. Givens.....	523,117	July 17	1627	{ 395 592	{ 68	340
Soot-separator.....	M. A. Lutzner.....	517,581	Apr. 3	270	{ 62 348	{ 67	53
Sorting cards and compiling statistics. Apparatus for.....	J. K. Gore.....	518,240	Apr. 17	1387	{ 349 349	{ 67	287
Sound-conducting apparatus.....	G. A. Leech.....	521,800	June 26	1867	{ 477 496	{ 67	1586
Sound. Transmitting.....	H. B. Cox.....	520,106	May 22	2034	{ 496 291	{ 67	960
Sounds. Apparatus for collecting, concentrating, and distributing.....	S. D. McKelvey.....	526,046	Sept. 18	1259	{ 291 624	{ 68	1405
Sounds. Apparatus for collecting, concentrating, and distributing.....	S. D. McKelvey.....	531,554	Dec. 25	2607	{ 624 463	{ 69	1740
Sounder.....	F. F. Howe.....	531,188	Dec. 18	1950	{ 463 136	{ 69	1600
Sounding apparatus.....	C. E. Kirtland.....	525,600	Nov. 6	136	{ 34 72	{ 69	671
Sounding apparatus. Submarine.....	W. M. Prather.....	525,362	Sept. 4	72	{ 20 128	{ 68	1164
Sounding-lead.....	P. T. Peterson.....	515,128	Feb. 20	1887	{ 474 1078	{ 66	1239
Sower. Hand seed.....	W. R. Bowen.....	525,942	Sept. 11	1078	{ 245 23	{ 68	1359
Sower. Force-feed broadcast seed.....	G. M. Ditto.....	525,339	Sept. 4	23	{ 6 2020	{ 68	1155
Sower. Seed.....	J. A. Gleixner and P. Schaff.....	515,208	Feb. 20	2020	{ 504 808	{ 66	1264
Sower. Seed.....	J. Musgrove.....	528,732	Nov. 6	263	{ 88 369	{ 69	712
Space-bar for line-casting machines.....	C. Skatulla.....	513,958	Jan. 30	3692	{ 902 2932	{ 66	832
Spacing-nail.....	J. J. White.....	528,406	Oct. 30	2932	{ 709 606	{ 69	598
Span or arch.....	E. Keating.....	530,424	Dec. 4	606	{ 150 281	{ 69	1326
Spade or shovel.....	P. Caldwell, Jr.....	519,104	May 1	281	{ 66 260	{ 67	589
Spark-arrester.....	H. Bell.....	526,828	Oct. 2	260	{ 63 1615	{ 69	49
Spark-arrester.....	H. E. Bultman.....	527,661	Oct. 16	1615	{ 390 556	{ 69	328
Spark-arrester.....	W. Caspar.....	530,392	Dec. 4	556	{ 138 967	{ 69	1317
Spark-arrester.....	R. F. Dougherty.....	524,525	Aug. 14	967	{ 217 1013	{ 68	834
Spark-arrester.....	A. Hasper.....	519,500	May 8	1013	{ 245 2268	{ 67	743
Spark-arrester.....	T. Lee.....	515,345	Feb. 27	2268	{ 562 2182	{ 66	1323
Spark-arrester.....	J. McMurrin.....	525,229	Aug. 28	2182	{ 533 2003	{ 68	1103
Spark-arrester.....	J. O. Donnell.....	516,940	Mar. 20	2003	{ 472 140	{ 67	1858
Spark-arrester.....	K. Ringheim.....	519,026	May 1	140	{ 34 627	{ 67	653
Spark-arrester and ejector. Combined.....	T. E. Austin.....	512,145	Jan. 2	627	{ 165 66	{ 66	132

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Spark arrester and extinguisher	H. O'Hara	527,444	Oct. 16	1258	309	69	241
Spark-catcher	J. F. Cristand	519,886	May 15	1472	407	67	878
Spark-conductor for steam-engines	J. T. King	520,115	May 22	2052	502	67	963
Sparrow-trap	J. W. Henry	513,184	Jan. 23	2420	584	66	555
Speaking-tube attachment	W. Weber	526,549	Sept. 25	2139	510	68	1581
Specific gravities. Separating materials of different	N. W. Holt	525,048	Aug. 28	1872	457 458 459	68	1049
Spectacle-bow wire or other articles. Means for forming	F. Ecaubert	518,807	Apr. 24	2380	5-9	67	478
Spectacle-bows. Mechanism for making	F. Ecanbert	518,099	Apr. 10	1137	286	67	224
Spectacle-case	G. W. Begole	528,068	Oct. 23	2338	564 565	69	477
Spectacle-frame	H. W. Wildt	520,347	May 22	2470	599	67	1039
Spectacle-lenses. Grinding	G. Prescott	512,485	Jan. 9	1277	307	66	253
Spectacles	G. C. Burns	513,078	Jan. 23	2253	544	66	521
Spectacles or eyeglasses	J. L. Borsch	528,528	Nov. 6	11	4	69	648
Speculum	W. Scheerer	516,842	Mar. 20	1840	435	66	1828
Speculum	J. D. Sherbrook	530,728	Dec. 11	1158	281	69	1440
Speculum	M. Wertheimer	519,623	May 8	1244	298	67	785
Speed and power regulator for motors	H. B. Gale	518,062	Apr. 10	1078	273	67	213
Speed-changing and reversing mechanism	H. H. Cummings	529,713	Nov. 27	2120	508 509	69	1082
Speed-changing and reversing mechanism	H. H. Cummings	529,714	Nov. 27	2122	509	69	1082
Speed-changing, reversing, and stopping mechanism.	H. H. Cummings	529,715	Nov. 27	2124	509	69	1083
Speed-gearing	J. J. Mann, J. H. Smith, and H. G. Read.	523,221	July 17	1817	455 456	68	373
Speed-gearing	J. H. Pendleton	520,801	June 5	77	17	67	1211
Speed gearing. Variable	N. J. Pritchard	515,534	Feb. 27	2575	637	66	1381
Speed gearing. Variable	N. J. Pritchard	515,610	Feb. 27	2691	669	61	1404
Speed-indicator	J. Naylor, Jr.	514,865	Feb. 13	1476	371	66	1150
Speed-indicator and alarm	G. A. Thompson and J. F. Schma-deke.	529,975	Nov. 27	2569	619	69	1164
Speed-indicator bearing	W. T. Lintner	520,792	June 5	54	13	67	1207
Speed-indicator for shafting	F. Hart	512,960	Jan. 16	2086	495	66	420
Speed-indicator for shafting	W. T. Lintner	527,557	Oct. 16	1447	352	69	297
Speed-measure for shafting	W. Lang	527,207	Oct. 9	860	209	69	175
Speed mechanism. Variable	A. Sequeira	521,512	June 19	1369	318 319	67	1478
Speed of pulleys, &c. Mechanism for regulating	J. Redding	526,199	Sept. 18	1531	358 359	68	1454
Speed of vehicles. Apparatus for recording	F. Bayerdoerfer	531,147	Dec. 18	1874	445	69	1587
Speed-recorder	J. Naylor, Jr.	530,710	Dec. 11	1125	273 274	69	1434
Speed-regulator	E. Salomon	513,148	Jan. 23	2367	571 572	66	545
Speed-regulator	F. A. Weyher	518,799	Apr. 24	2361	585 586	67	475
Speed-varying mechanism	H. H. Cummings	517,443	Apr. 3	51	11	67	12
Spice-receptacle	T. W. Bradfield	523,321	July 24	1985	499	68	421
Spiegeleisen. Manufacturing	G. E. Moore	529,458	Nov. 20	1700	.....	69	995
Spike	A. Assorati	525,576	Sept. 4	434	103	68	1232
Spike-drawing bar	L. Landreth	517,977	Apr. 10	926	232	67	189
Spike-puller	P. J. Björk	524,082	Aug. 7	191	43	68	696
Spike-puller	L. M. Shattuck	523,181	July 17	1749	439	68	360
Spikes. Making	J. J. O'Neill	521,571	June 19	1476	343	67	1495
Spindle:							
See Ring-frame spindle.							
Spindle	W. F. Draper	515,733	Feb. 27	2889	721	66	1443
Spindle	F. M. Garcelon	526,670	Sept. 25	2349	560	68	1021
Spindle and bearing	W. F. Draper	515,732	Feb. 27	2887	721	66	1443
Spindle and bearing	J. H. Northrop	515,715	Feb. 27	2867	715	66	1438
Spindle and bolster	F. M. Garcelon	528,936	Nov. 13	767	181	69	807
Spindle-bearing	W. E. Allen	513,227	Jan. 23	2482	589	66	566
Spindle-bearing	E. J. Carroll	523,249	July 31	2928	729	68	607
Spindle-bearing	E. J. Carroll	528,362	Oct. 30	2855	692	69	585
Spindle-bearing	J. H. Northrop	517,232	Mar. 27	2516	591	66	1973
Spindle-bearing-adjusting device	G. O. Draper	525,453	Sept. 4	233	57	68	1194
Spindle-bearing. Combined	G. O. Draper	518,447	Apr. 17	1762	437	67	355
Spindle centering device	G. O. Draper	527,015	Oct. 2	562	137	69	106
Spindle for conical cop-tubes	W. J. McCausland	515,301	Feb. 20	2187	542	66	1297
Spindle-retainer	E. J. Carroll	523,909	July 31	3023	752	68	625
Spindle-retaining device	G. A. Draper	513,898	Jan. 30	3606	888	66	814
Spindle-step protector	E. Jagger	517,573	Apr. 3	253	60	67	51
Spindle-support	E. Hitchon	530,073	Nov. 27	2768	664	69	1203
Spindle-support	H. A. Owen	528,020	Oct. 23	2262	546	69	462
Spindle-support	H. F. Woodmancy. (Reissue)	11,407	Mar. 20	2138	505	66	1884
Spinner. Organzine	J. Duffy	525,192	Aug. 28	2129	519	68	1093
Spinning and doubling cops of cotton	T. and J. Seed	524,912	Aug. 21	1603	392 393 394	68	984
Spinning and doubling machines. Spindle and support for	J. Hargreaves	519,532	May 8	1091	261 262	67	758
Spinning and twisting frame ring	G. O. Draper	523,200	July 17	1792	448	68	366
Spinning and twisting frames. Thread-receiver for	G. W. Knight	525,464	Sept. 4	251	61	68	1197
Spinning and twisting spindles. Load-equalizer for	J. H. Northrop	525,468	Sept. 4	256	63	68	1198
Spinning different-colored rovings into thread or yarn. Apparatus for	J. Lunn	520,793	June 5	56	13	67	1207
Spinning fibrous materials. Apparatus for	N. Cupers	511,878	Jan. 2	262	60	66	52
Spinning frame. Ring	P. P. Craven	521,584	June 19	1488	348 349 350	67	1499
Spinning-frame separator	G. A. and G. O. Draper	526,010	Sept. 11	1192	273	68	1381
Spinning-frame separator	A. E. Rhoades	523,644	July 24	2539	637	68	521

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Spinning-frame tension device.....	R. Atherton.....	520,473	May 29	2675	646	67	1093
Spinning frames. Separator mechanism for ring- Spinning-jenny.....	A. Hitchon..... B. Bodell.....	527,389 527,587	Oct. 9 Oct. 16	1171 1498	287 364	69 69	233 306
Spinning-jenny.....	G. H. Marsh.....	523,168	July 17	1727	432 433	68	356
Spinning-machine roll.....	J. Cain.....	527,107	Oct. 9	705	172	69	146
Spinning-machine spindle.....	E. J. Fenderson.....	521,142	June 5	692	162	67	1321
Spinning-machines. Mechanism for actuating rov- ing-rods of.....	G. E. Chandler.....	527,591	Oct. 16	1507	366	69	308
Spinning-machines. Top-roll saddle for.....	E. Dixon.....	524,103	Aug. 7	228	53	68	703
Spinning-machines. Yarn-separator for ring- Spinning machinery.....	E. L. Morrill..... E. K. Baker.....	531,548 519,491	Dec. 25 May 8	2595 997	621 242	69 67	1737 740
Spinning-machinery spindle.....	B. Smith and J. M. Howson.....	517,772	Apr. 3	601	148	67	116
Spinning-mule attachment.....	F. H. Lewington.....	526,015	Sept. 11	1202	275 276	68	1362
Spinning-mule safety attachment.....	E. G. Varney.....	517,314	Mar. 27	2649	622	66	1999
Spinning-mule. Self-acting.....	J. Moorhouse.....	514,330	Feb. 6	610	154	66	967
Spinning-rail separator.....	A. E. Rhoades.....	531,561	Dec. 25	2617	627	69	1742
Spinning-rings from sheet metal. Die for shaping.....	M. D. Marcy.....	515,403	Feb. 27	2365	587	66	1341
Spinning-rings. Manufacturing.....	M. D. Marcy.....	523,726	July 31	2704	670	68	565
Spinning-spindle support.....	T. B. Flanders.....	515,203	Feb. 20	2013	502	66	1263
Spinning-spindle supporting device.....	R. Atherton.....	516,042	Mar. 6	509	118	66	1547
Spinning-spindles. Device for adjusting bearings of Spinning-spindles. Device for plumbing top-rail.....	G. O. Draper..... J. P. Kelly.....	517,270 519,716	Mar. 27 May 15	2576 1395	604 336	66 67	1925 826
Spinning-spindles. Sleeve-whirl and load-equalizer for.....	G. O. Draper.....	525,452	Sept. 4	232	57	68	1193
Spirometer.....	F. W. Baker.....	531,247	Dec. 18	2061	492	69	1619
Spint and spint fabric.....	E. A. Tracy.....	522,947	July 10	1324	329	68	266
Spint-cutter.....	F. S. Baumeister.....	519,982	May 15	1821	446	67	905
Split-link center-pin hook.....	W. Hodge and J. Pearson.....	525,210	Aug. 28	2155	526	68	1098
Spoke and tire tightener.....	J. M. Hawley.....	525,981	Sept. 11	1150	261	68	1373
Spoke attachment for vehicle-wheels.....	L. Rastetter.....	518,627	Apr. 24	2058	511	67	421
Spoke-sawing machine.....	G. S. Fry and S. L. Walker.....	526,699	Oct. 2	42	12, 13	69	11
Spoke-socket.....	H. J. Davis and J. C. McDaniel.....	529,716	Nov. 27	2127	510	69	1083
Spoke-socket.....	P. Schneider.....	519,273	May 1	600	145	67	653
Spoke-tenoning machine.....	J. O. Lade.....	521,214	June 12	817	192	67	1358
Spokes from wheel-hubs. Machine for extracting.....	J. H. Davis.....	520,258	May 22	2319	562	67	1010
Spool and support thereof.....	A. Kreidler.....	521,241	June 12	865	203	67	1367
Spool-box.....	P. Gelb.....	520,355	May 22	2481	601	67	1041
Spool-box.....	C. Tollner.....	526,676	Oct. 2	345	85	69	65
Spool-cabinet.....	G. Richberger.....	529,081	Nov. 13	1010	244	69	849
Spool-making machine.....	J. F. Wardlo.....	520,509	May 29	2733	662	67	1104
Spool or bobbin holder.....	A. B. Homer.....	516,332	Mar. 13	972	230	66	1650
Spool-support.....	T. C. Dill.....	519,669	May 8	1311	313	67	797
Spool-turning machine.....	E. Hubbard.....	521,468	June 19	1288	300 301	67	1463
Spools. Machine for dressing half- Spooling-frame yarn-guide.....	E. Hubbard..... G. E. Mayhew.....	518,954 522,378	May 1 July 3	27 348	7, 8 89	67 68	541 69
Spooling-machine.....	J. W. Foster.....	514,884	Feb. 13	1512	378 379	66	1156
Spooling-machine bobbin-holder.....	N. H. Easton.....	530,492	Dec. 4	738	180	69	1349
Spooling-machine stop mechanism.....	O. Lever and W. S. Grundy.....	517,615	Apr. 3	354	77	67	63
Spooling-machines. Automatic tension-regulator for Spooling or winding frame.....	W. H. St. George..... B. L. Stowe.....	517,495 529,087	Apr. 3 Nov. 13	134 1022	29 246	67 69	28 852
Spooling or winding machine.....	J. M. Parker.....	525,055	Aug. 28	1940	474 475	68	1060
Spoon.....	S. H. Kimball.....	527,115	Oct. 9	718	176	69	148
Spoons. Mustache-guard for.....	C. A. Quentell.....	518,116	Apr. 10	1168	293	67	230
Spout extractor. Sap- Spout for vessels.....	M. R. Moss..... L. C. Kinsey.....	513,591 523,580	Jan. 30 July 24	3110 2433	765 611	66 68	721 500
Spout. Single-piece sheet-metal.....	J. W. Greene.....	530,587	Dec. 11	921	225	69	1399
Sprayer and nozzle. Combined.....	F. S. North and A. Raymond.....	533,941	July 31	3096	770	68	640
Sprayer. Insect-powder and sand.....	C. G. Davis.....	515,519	Feb. 27	2549	631	66	1376
Spraying oil or other liquids. Apparatus for Spraying-machine.....	L. L. Merrifield..... A. Bryce.....	514,952 520,766	Feb. 20 June 5	1615 8	405 2	66 67	1191 1198
Spreader. Animal- Spreader-rod.....	J. E. Perl..... S. D. Poole.....	521,774 528,236	June 19 Oct. 30	1829 2645	435 637	67 69	1561 547
Spring: See Bed-spring. Elliptic spring. Bird-cage spring. Elliptical spring. Bolster-spring. Pneumatic spring. Burglar-alarm spring. Treadle-spring. Carriage-spring. Trolley-spring. Carriage-top spring. Umbrella-spring. Door-spring. Vehicle-spring. Watchcase-spring.	P. N. French.....	526,895	Oct. 2	350	95	69	71
Spring.....	G. Turton.....	516,360	Mar. 13	1030	245 246	66	1661
Spring-bending machine.....	W. and W. J. Bauer.....	525,326	Sept. 4	3	1	68	1151
Spring-catch.....	A. Ludwig.....	517,703	Apr. 3	484	116	67	93
Spring-jack cleaner.....	M. Seter.....	521,223	June 12	838	196	67	1362
Spring-motor.....	S. Krueger.....	529,074	Nov. 13	1000	240	69	847
Spring-motor.....	J. J. and C. A. McCarthy.....	515,352	Feb. 27	2282	565	66	1326
Spring-motor.....	J. F. Seiberling.....	524,792	Aug. 21	1407	343 344	68	949
Spring-motor.....	M. H. Wilson.....	531,607	Dec. 25	2696	647	69	1758
Spring-motor.....	S. B. Wortmann.....	523,190	July 17	1763	442 443	68	363
Spring-seat.....	F. H. Homan.....	519,792	May 15	1519	370	67	849
Spring-seat.....	S. G. Scarritt.....	516,773	Mar. 20	1730	407	66	1805
Spring-shackle and oil-distributor. Combined.....	R. A. Hammond.....	518,502	Apr. 17	1849	459	67	370
Spring-winding mechanism.....	F. A. Richter.....	513,532	Jan. 30	3015	744	66	703

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Springs. Manufacturing flat zigzag.....	G. Hookham.....	527,856	Oct. 23	1954	469	69	406
Springs. Means for limiting tension of driving.....	P. Wendelboe.....	525,037	Aug. 28	1850	451 452	68	1046
Sprinkler:							
See Automatic sprinkler. Lawn-sprinkler.							
Bath-sprinkler. Water-sprinkler.							
Sprinkler.....	J. B. Haberle.....	512,291	Jan. 9	930	226	66	188
Sprinkler.....	J. B. Haberle.....	512,292	Jan. 9	932	226	66	189
Sprinkler.....	J. B. Haberle.....	528,252	Oct. 30	2670	643	69	552
Sprinkler.....	W. A. Koneman.....	530,534	Dec. 11	824	204	69	1322
Sprinkler.....	O. C. Retsloff.....	511,799	Jan. 2	82	21	66	19
Sprinkler.....	R. B. Van Dyke.....	530,464	Dec. 4	668	165	69	1337
Sprinkler-head.....	J. H. Dixon.....	525,946	Sept. 11	1084	247	68	1360
Sprinkler-head. Automatic.....	O. Pierce.....	519,816	May 15	1600	391	67	865
Sprinklers. Sprinkling-head for street.....	W. H. Miller.....	530,693	May 29	3052	739	67	1163
Sprinkling apparatus.....	D. M. Pinckney.....	522,229	July 3	93	21	68	18
Sprinkling-head.....	C. A. Weed.....	530,868	Dec. 11	1377	328	69	1481
Sprocket. Interchangeable.....	A. M. Snyder.....	529,843	Nov. 27	2343	558	69	1123
Sprocket-wheel.....	H. W. Hoeft.....	512,822	Jan. 16	1247	437	66	376
Sprocket-wheel.....	W. A. Leggo, Jr.....	524,230	Aug. 21	1480	361 362	68	963
Sprocket-wheel.....	P. D. Murphy and E. Kolb.....	527,153	Oct. 9	780	190	69	160
Sprocket-wheel.....	T. J. Neacy.....	516,550	Mar. 13	1346	321	66	1720
Sprocket-wheel.....	C. Thmm.....	519,721	May 15	1496	362	67	844
Sprocket-wheel. Combination.....	G. W. Kortright.....	524,413	Aug. 14	833	204	68	831
Sprocket-wheel for chains.....	W. A. Leggo, Jr.....	522,427	July 3	449	114	68	89
Square.....	G. G. F. Boswell.....	527,035	Oct. 2	596	144	69	112
Square.....	P. Grabler and J. J. Brown.....	527,968	Oct. 23	2165	521	69	445
Square. Adjustable angle.....	L. K. Bartley.....	518,685	Apr. 24	2160	540	67	440
Square attachment. T.....	G. W. Amos.....	530,060	Nov. 27	2743	658	69	1199
Square. Carpenter's folding.....	E. C. Perry.....	514,380	Feb. 6	680	172	66	981
Square. Folding.....	H. C. Goodgiou.....	512,436	Jan. 9	1182	227	66	235
Square for picture-frame mats.....	L. H. Barberie.....	513,665	Jan. 30	3242	795	66	744
Square. Self-registering try.....	G. A. Bates.....	511,746	Jan. 2	12	3	66	5
Square. Steel.....	J. G. Zuck.....	523,500	July 24	2307	581	68	476
Square. Stone-worker's gage.....	J. H. Gorman.....	523,398	July 24	2114	531	68	444
Square. Try.....	F. Houle.....	530,894	Dec. 11	1421	337	69	1429
Squib. Miner's.....	J. R. Powell.....	518,699	Apr. 24	2182	545	67	444
Squirrel-extinator.....	T. R. Barney.....	525,127	Aug. 28	2010	491	68	1073
Stable device. Safety.....	E. J. Gallagher, Jr.....	530,617	Dec. 11	966	237	69	1407
Stable or harness-room cabinet.....	G. E. W. Stivers.....	512,407	Jan. 9	1128	272 273	66	225
Stacker. Pneumatic.....	G. A. Raasch and H. Fahrmeier.....	525,221	Aug. 28	2266	552	68	1121
Stacking-frame.....	W. J. Darrah.....	512,948	Jan. 16	2067	490	66	416
Stadia-rod.....	E. C. Stout.....	525,520	Sept. 4	333	22, 83	68	1213
Stage appliance.....	C. B. Jefferson.....	524,174	Aug. 7	352	83	68	726
Stage effects. Mechanism for the production of.....	M. L. Fuller.....	513,102	Jan. 23	2256	553	66	528
Staging-bracket.....	J. B. Kenison and M. F. Burk.....	528,169	Oct. 30	2518	610	69	524
Stair-pad.....	M. H. Marcus.....	521,593	June 19	1506	353	67	1501
Stair-rod.....	A. Jones.....	517,279	Mar. 27	2588	606	66	1987
Stair. Trap-door.....	E. F. Grossé.....	527,852	Oct. 23	1949	466 467	69	405
Stairway.....	J. Fullerton.....	525,198	Aug. 28	2136	521	68	1094
Stake. Ground.....	E. E. Harvey.....	516,530	Mar. 13	1322	315	66	1715
Stake or post base.....	J. H. Langton.....	531,196	Dec. 18	1963	466	69	1603
Stalk-cutter.....	H. W. Allen.....	527,230	Oct. 9	903	218 219	69	184
Stalk-cutter.....	H. Nehrmeyer.....	516,444	Mar. 13	1167	279 280	66	1626
Stalk-cutter.....	W. R. Ustry.....	527,302	Oct. 9	1027	250	69	205
Stalk-cutter and rake. Combined.....	J. Priestley.....	517,766	Apr. 3	590	145	67	114
Stalk-cutter, roller, and seed-planter. Combined.....	G. W. Tucker.....	514,522	Feb. 13	913	231	66	1043
Stall. Cow.....	J. Ardron.....	516,905	Mar. 20	1944	458	66	1847
Stall. Cow.....	D. L. Blackburn.....	516,466	Mar. 13	1209	290	66	1694
Stall-floor.....	W. A. and S. G. Brown.....	528,840	Nov. 6	600	142	69	755
Stall-floor.....	H. W. Thayer and W. J. Wallace.....	529,569	Nov. 20	1893	450 451	69	1030
Stallion-shield.....	J. W. Fitzgerald.....	521,462	June 19	1279	298	67	1461
Stamp-affixing device. Postage.....	G. E. Conrad.....	513,857	Jan. 30	3594	485	66	812
Stamp-affixing machine.....	E. Schafer and H. A. Levy.....	516,511	Mar. 13	1287	306	66	1703
Stamp-attaching device.....	J. G. Pnlling.....	517,295	Mar. 27	2324	616	66	1993
Stamp-attaching machine. Postage.....	C. F. Lantry.....	518,612	Apr. 24	2029	504 505	67	417
Stamp-attaching machine. Postage.....	O. J. Moe.....	517,472	Apr. 3	96	22	67	20
Stamp-book.....	A. F. Purdy.....	520,339	May 22	2546	615	67	1055
Stamp. Canceling.....	M. Peabody.....	523,751	July 31	2749	682	68	574
Stamp-canceling and postmarking letters. Machine for.....	M. J. Dolphin.....	517,037	Mar. 27	2179	516	66	1907
Stamp-canceling and postmarking machine.....	M. V. B. Ethridge.....	521,605	June 19	1526	357 358	67	1505
Stamp-canceling and postmarking machine.....	M. V. B. Ethridge.....	521,606	June 19	1531	358 359	67	1506
Stamp-canceling machine.....	G. E. Barnard.....	518,440	Apr. 17	1746	433 434	67	352
Stamp-canceling machine.....	F. N. Ethridge.....	521,565	June 19	1456	340 341	67	1493
Stamp. Combined printing and cutting.....	B. B. Hill.....	525,078	Aug. 28	1927	472	68	1059
Stamp groove or recess for shipping-cases.....	C. F. Goodwille.....	520,921	June 5	306	75	67	1253
Stamp. Hand.....	A. J. Dickson.....	530,016	Dec. 11	965	236	69	1407
Stamp holder and moistener.....	G. Loomis.....	519,190	May 1	418	110	67	624
Stamp-mill mortar.....	H. Bolthoff.....	515,896	Mar. 6	258	61	66	1502
Stamp-mill. Ore.....	J. M. McFarland.....	527,620	Oct. 16	1549	375	69	315
Stamp motor. Time.....	P. G. Giroud.....	522,730	July 10	964	241	68	199
Stamp or envelope moistener.....	A. Stuehner.....	530,135	Dec. 4	99	26	69	1233

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Stamp. Return postage.....	R. S. Williams.....	522,037	June 26	2293	551	67	1666
Stamp. Rubber.....	E. S. Hall.....	522,467	July 3	505	128	68	101
Stamp. Rubber.....	G. A. Pickup.....	523,777	July 31	2789	693	68	581
Stamp. Rubber hand.....	S. D. Arnold, J. B. Venker, and W. L. Barnard.....	528,583	Nov. 6	100	25	69	664
Stamp. Self-inking hand.....	S. H. Leavenworth.....	527,208	Oct. 9	861	210	69	175
Stamp. Steam.....	C. W. Tremain.....	515,380	Feb. 27	2332	579	66	1335
Stamp-sticking device.....	C. A. Sprague.....	517,494	Apr. 3	133	29	67	28
Stamp sticking or sealing machine.....	J. T. Shaw.....	525,141	Nov. 13	1111	269	69	869
Stamp. Ticket.....	C. N. Souther.....	529,669	Nov. 20	2046	490 491 516	69	1058
Stamp. Time.....	E. P. Baird and F. Nash.....	531,297	Dec. 25	2152	73 74 75	69	1652
Stamp. Time.....	J. J. Busenbenz.....	526,854	Oct. 2	301	74	69	57
Stamp. Time.....	J. Sharpe.....	512,755	Jan. 16	1729	410	66	354
Stamp. Time.....	J. C. Wilson.....	527,918	Oct. 23	2063	494 495	69	427
Stamp. Time and dating.....	W. S. Jewell and A. C. Stevens.....	512,378	Jan. 9	1068	261	66	213
Stamps, &c. Device for protecting and preventing reuse of revenue.....	D. C. Harrison.....	525,267	Aug. 28	2235	545	68	1113
Stamps, labels, &c. Apparatus for affixing	E. C. Phillips.....	520,497	May 29	2716	658	67	1101
Stamps to envelopes, &c. Device for affixing postage or other	J. C. Steelman.....	521,625	June 19	1562	364 365	67	1511
Stamps to envelopes. Machine for attaching postage.....	C. Elliot.....	517,740	Apr. 3	549	133	67	107
Stamping and punching machine.....	J. Casey.....	512,097	Jan. 2	612	147 148	66	118
Stamping-block.....	I. Davis.....	515,047	Feb. 20	1764	445	66	1216
Stamping device. Hand.....	H. S. Ingersoll.....	521,287	June 12	953	226	67	1393
Stamping-machine.....	A. E. Grant.....	518,402	Apr. 17	1678	415	67	340
Stamping-machine.....	S. B. Whitehead.....	515,566	Feb. 27	2622	651	66	1390
Stamping-machine centering-gage.....	J. T. Duff.....	516,432	Mar. 13	1147	274	66	1682
Stamping or pressing machine.....	E. Saltzkorn and L. Nicolai.....	531,337	Dec. 25	2225	532	69	1666
Stamping-press.....	T. A. Dicks.....	513,636	Jan. 30	3189	782	66	734
Stamping-press.....	L. Schuler.....	518,080	Apr. 10	1103	279	67	217
Stamping-press hand-guard.....	T. A. Dicks.....	513,093	Jan. 23	2273	549	66	525
Stand:							
See Barrel-stand. Newspaper-stand.							
Bicycle-stand. Photograph-stand.							
Display-stand. Railway-switch stand.							
Floral stand. Reading-stand.							
Folding stand. Rotating stand.							
Garment-stand. Show-stand.							
Lamp-stand. Switch-stand.							
Model-stand. Trolley-stand.							
Music-stand. Washstand.							
Stand-boiler for heating water.....	W. E. Duncan.....	523,738	July 31	2725	675	68	569
Stand, table, or analogous article.....	S. H. Hoggson.....	520,430	May 29	2604	630	67	1081
Staple-driving implement.....	J. Blakey.....	525,581	Sept. 4	440	105	68	1233
Staple-fastener for wooden vessels or boxes.....	F. W. Richey.....	527,184	Oct. 9	824	200	69	169
Staple-holder.....	W. J. Brown.....	514,699	Feb. 13	1209	301	66	1099
Staple inserting and clinching machine.....	J. Mandel and J. P. Henderson.....	512,383	Jan. 9	1078	263 264	66	215
Staple. Roller.....	O. P. Schriver.....	519,435	May 8	902	217	67	725
Stapling and cutting machine.....	C. E. Parks and L. Mollart.....	517,586	Apr. 3	276	63, 64	67	54
Stapling and cutting machine.....	C. E. Parks and L. Mollart.....	517,587	Apr. 3	278	64, 65	67	55
Stapling-machine.....	E. T. Greenfield.....	520,735	May 29	3116	754 755	67	1174
Stapling-machine.....	W. S. Hamm.....	521,369	June 12	1102	259	67	1412
Starch containing solutions for use in brewing, distilling, &c. Making	S. Pratt.....	524,651	Aug. 14	1171	288	68	894
Starching apparatus. Clothes.....	W. B. Dow.....	512,282	Jan. 9	915	223	66	185
Starching-machine.....	A. Conkling.....	520,668	May 29	3001	734 735	67	1153
Starching-machine.....	C. O. White.....	524,431	Aug. 14	815	189	68	828
Station-indicator.....	A. C. Allyn.....	525,176	Aug. 28	2109	513	68	1089
Station-indicator.....	S. N. Ashmore.....	525,755	Sept. 11	751	174 175	68	1301
Station-indicator.....	A. Baker.....	521,359	June 12	1088	255 256	67	1409
Station-indicator.....	D. B. D. Blake.....	530,821	Dec. 11	1302	314 315	69	1468
Station-indicator.....	E. Elbert.....	514,649	Feb. 13	1122	280	66	1083
Station-indicator.....	C. M. Kiler.....	512,034	Jan. 2	509	121	66	98
Station-indicator.....	A. Lambert.....	524,421	Aug. 14	801	196	68	825
Station-indicator.....	E. Miller, Jr.....	526,111	Sept. 18	1374	320 321 322	68	1426
Station-indicator.....	G. W. Robertson.....	523,919	July 31	2042	757 758 759	68	629
Station-indicator.....	F. V. Russell.....	516,944	Mar. 20	2010	474	66	1859
Statistics. Machine for compiling or tabulating.....	H. Hollerith.....	526,129	Sept. 18	1402	326	68	1431
Statistics. Machine for tabulating.....	H. Hollerith.....	526,130	Sept. 18	1405	327 328	68	1432
Stave-cutting machine.....	W. Nier.....	525,613	Sept. 4	487	116 117	68	1242
Stave-frame.....	F. O. Havener.....	525,343	Sept. 4	30	7	68	1157
Stave jointing and crozing machine.....	T. Bruno.....	531,154	Dec. 18	1888	448	69	1589
Stave-jointing machine.....	J. Anthorn.....	520,873	June 5	215	48, 49	67	1236
Stave-jointing machine.....	L. T. Hagan.....	530,943	Dec. 18	1505	357	69	1520
Stave-jointing machine.....	I. A. Kerr.....	524,982	Aug. 21	1726	422 423	68	1005

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Stave-jointing machine.....	G. Mills.....	523,225	July 17	1824	459	68	374
Stave-machine.....	N. Burr.....	524,308	Aug. 14	580	139	68	786
Staves. Forming.....	T. J. Sullivan.....	516,243	Mar. 13	834	195	66	1624
Staves, &c. Machine for cutting barrel.....	B. D. Whitney.....	515,388	Feb. 27	2343	{ 581 582 }	66	1337
Staves. Machine for jointing listed.....	A. M. Benson.....	530,500	Dec. 11	153	85	69	1370
Staves. Preparing bung.....	J. Pleukharp.....	513,339	Jan. 23	2670	647	66	604
Stay. Dress.....	J. Janowitz.....	512,113	Jan. 2	644	154	66	124
Stay. Dress.....	F. W. Lyon.....	515,916	Mar. 6	287	67	66	1507
Stay. Dress.....	F. W. Lyon.....	520,485	May 29	2695	652	67	1097
Stay. Dress.....	E. B. Taylor.....	515,804	Mar. 6	122	29	66	1476
Stay fastening. Dress.....	F. A. Gibbs.....	515,583	Feb. 27	2650	658	66	1396
Stay. Garment.....	E. E. Howell.....	522,942	Nov. 13	786	184	69	810
Stay. Pocket. Dress.....	G. Kendrick.....	511,958	Jan. 2	390	91	66	74
Stay-traveler.....	A. K. Evans.....	520,955	June 5	370	90	67	1265
Steak-tenderer.....	J. H. Nickles, Jr., and G. F. Shirley.....	555,508	Sept. 4	311	77	68	1209
Steam and drain trap. Automatic.....	F. Lamplough.....	515,293	Feb. 20	2171	539	66	1294
Steam and gas generator and engine. Combined.....	N. Eaton.....	517,606	Apr. 3	307	71, 72	67	60
Steam and gas motor. Combined.....	J. G. Lightford.....	515,295	Feb. 20	2177	540	66	1295
Steam and hot-water boiler.....	R. McGregor, G. W. and W. A. Wad- dington.....	514,376	Feb. 6	673	{ 170 171 332 323 }	66	979
Steam and hot-water generator.....	D. A. Dickinson.....	518,184	Apr. 10	1276	{ 322 323 }	67	248
Steam and removing extraneous matter. Apparatus for purifying.....	C. M. Baum.....	515,105	Feb. 20	1845	465	66	1232
Steam. Apparatus for eliminating lubricant from exhaust.....	J. H. Blessing.....	514,440	Feb. 13	763	196	66	1015
Steam. Apparatus for preparing expanded and re- heated.....	F. L. Dyer.....	522,157	June 26	2499	600	67	1704
Steam. Apparatus for recovering lubricant from ex- haust.....	J. H. Blessing.....	514,438	Feb. 13	760	195	66	1014
Steam-boiler.....	D. Ahern.....	521,532	June 19	1403	324	67	1483
Steam-boiler.....	D. Ahern.....	522,871	July 10	1183	295	68	240
Steam-boiler.....	D. Ahern.....	528,409	Oct. 30	2937	710	69	599
Steam-boiler.....	H. N. Barth.....	521,844	June 26	1934	464	67	1598
Steam-boiler.....	J. Buchanan.....	515,729	Feb. 27	2285	720	66	1442
Steam-boiler.....	J. Cahall.....	518,519	Apr. 17	1878	465	67	375
Steam-boiler.....	J. A. Caldwell.....	521,204	June 12	804	189	67	1356
Steam-boiler.....	G. Cawley.....	518,443	Apr. 17	1754	435	67	354
Steam-boiler.....	D. Connelly and C. E. Schafer.....	526,024	Sept. 18	1220	281	68	1399
Steam-boiler.....	R. E. Dietz.....	516,369	Mar. 13	1048	249	66	1663
Steam-boiler.....	G. H. Drake.....	523,109	July 17	1611	404	68	337
Steam-boiler.....	E. F. Edgar.....	528,930	Nov. 13	760	178	69	806
Steam-boiler.....	P. Ferguson and W. Y. Fleming.....	530,331	Dec. 4	452	113	69	1296
Steam-boiler.....	C. Finger.....	528,986	Oct. 23	2377	573	69	484
Steam-boiler.....	M. N. Forney.....	518,399	Apr. 17	1673	413	67	339
Steam-boiler.....	J. E. Green.....	517,745	Apr. 3	556	{ 135 136 }	67	108
Steam-boiler.....	T. Gunning.....	529,529	Nov. 20	1831	435	69	1018
Steam-boiler.....	G. W. Johnson.....	516,816	Mar. 20	1794	425	66	1818
Steam-boiler.....	R. Joy.....	520,962	June 5	380	92	67	1266
Steam-boiler.....	H. G. Keasbey.....	525,553	Sept. 4	396	96	68	1225
Steam-boiler.....	G. W. Lönholdt.....	513,120	Jan. 23	2925	560	66	536
Steam-boiler.....	T. A. Marriott.....	519,386	May 8	822	201	67	710
Steam-boiler.....	T. Miller.....	522,077	June 26	2360	568	67	1678
Steam-boiler.....	T. Murphy.....	520,936	June 5	342	84	67	1259
Steam-boiler.....	G. F. Nilsson.....	517,147	Mar. 27	2369	{ 559 560 117 119 }	66	1945
Steam-boiler.....	A. Normand.....	525,614	Sept. 4	491	{ 118 119 }	68	1243
Steam-boiler.....	C. E. Parker.....	524,115	Aug. 7	246	57	68	706
Steam-boiler.....	H. S. Pell.....	518,858	Apr. 24	2451	607	67	491
Steam-boiler.....	M. H. Plunkett.....	522,271	July 3	175	48	68	36
Steam-boiler.....	A. Poggendorf.....	529,805	Nov. 27	2269	{ 541 542 450 451 }	69	1107
Steam-boiler.....	F. Prox.....	521,812	June 26	1884	{ 451 339 340 }	67	1589
Steam-boiler.....	A. F. L. Reussner.....	530,901	Dec. 11	1429	340	69	1491
Steam-boiler.....	W. Saur.....	520,742	May 29	3126	757	67	1176
Steam-boiler.....	J. E. Schlieper.....	526,947	Oct. 2	460	113	69	87
Steam-boiler.....	G. Sewell.....	527,729	Oct. 16	1727	417	65	349
Steam-boiler.....	E. Shydecker.....	527,624	Oct. 16	1555	377	69	317
Steam-boiler.....	J. E. Spanoghe.....	527,459	Oct. 16	1295	316	69	270
Steam-boiler.....	G. H. Taylor.....	514,841	Feb. 13	1443	{ 362 363 364 297 298 }	66	1144
Steam-boiler.....	J. J. Tonkin.....	526,062	Sept. 18	1285	297	68	1410
Steam-boiler.....	F. H. Treat.....	520,945	June 5	356	87	67	1262
Steam-boiler.....	H. L. Wilson.....	526,600	Sept. 25	2217	{ 529 530 }	68	1597
Steam boiler or generator.....	C. D. Mosher.....	515,784	Mar. 6	94	22	66	1471
Steam-boiler or hot-water heater.....	A. Boyce.....	519,418	May 8	874	212	67	720
Steam-boiler. Radial-tube.....	E. S. T. Kennedy.....	520,684	May 29	3035	735	67	1160
Steam-boiler. Sectional.....	H. M. Norton.....	523,231	July 17	1832	461	68	375
Steam-boiler. Sectional.....	H. M. Norton.....	524,183	Aug. 7	364	86, 87	68	728
Steam-boiler. Sectional.....	A. Worthington.....	524,877	Aug. 21	1550	{ 379 380 }	68	974
Steam-boiler. Tubulous.....	H. A. and H. A. Honse, Jr.....	521,164	June 12	731	173	67	1343
Steam-boiler. Water-tube.....	M. H. C. Shann.....	517,174	Mar. 27	2424	570	66	1955
Steam-boiler. Water-tube.....	L. D. Davis.....	521,850	June 26	1940	466	67	1600
Steam-boiler. Water-tube.....	A. W. Shearer.....	522,238	July 3	108	25, 26	68	21

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Steam-boiler. Water-tube.....	J. W. Van Dyke.....	522,035	June 26	2292	549	67	1665
Steam by electricity. Apparatus for generating.....	H. E. Rider and J. H. Lewis.....	516,167	Mar. 6	695	164	66	1583
Steam-condensing apparatus.....	W. Webster.....	524,569	Aug. 14	1038	256	68	863
Steam-elevator.....	R. J. McCarty.....	523,966	Nov. 13	821	192 193 194	69	816
Steam-engine.....	N. W. Barnett.....	529,581	Nov. 20	1914	456	69	1034
Steam-engine.....	A. G. Brown.....	514,700	Feb. 13	1211	302	66	1099
Steam-engine.....	A. G. Brown.....	514,701	Feb. 13	1213	302	66	1100
Steam-engine.....	A. G. Brown.....	514,747	Feb. 13	1294	322	66	1115
Steam-engine.....	J. T. Case.....	516,430	Mar. 13	1141	271 272 273	66	1681
Steam-engine.....	W. N. and C. F. Christopher.....	523,761	July 31	2763	686	68	576
Steam-engine.....	W. C. Church.....	519,239	May 1	542	131 132 133	67	642
Steam-engine.....	R. B. Davis.....	521,105	June 5	630	148	67	1310
Steam-engine.....	J. Evered.....	513,493	Jan. 30	2937	723	66	689
Steam-engine.....	R. Garstang.....	523,631	July 24	2520	631 632	68	517
Steam-engine.....	J. L. Gourley.....	520,757	May 29	3155	764	67	1181
Steam-engine.....	E. Gschwind.....	523,118	July 17	1627	408	68	340
Steam-engine.....	F. G. Hobart.....	513,929	Jan. 30	3644	899	66	822
Steam-engine.....	B. Jackson.....	511,954	Jan. 2	384	89	66	73
Steam-engine.....	P. B. Landgraf.....	521,504	June 19	1353	315	67	1475
Steam-engine.....	H. M. McCall.....	519,588	May 8	1177	283	67	774
Steam-engine.....	A. Miller.....	531,267	Dec. 18	2094	502 503	69	1625
Steam-engine.....	H. Nielsen.....	530,961	Dec. 18	1536	364	69	1525
Steam-engine.....	A. N. Ogle and C. M. Magunson.....	519,966	May 15	1790	439 440	67	900
Steam-engine.....	J. R. Pearce.....	527,072	Oct. 9	648	157	69	136
Steam-engine.....	C. T. Porter.....	517,982	Apr. 10	936	235 236	67	191
Steam-engine.....	C. T. Porter.....	517,983	Apr. 10	941	236 237 501	67	192
Steam-engine.....	C. W. Robison.....	517,015	Mar. 20	2122	502 503	66	1481
Steam-engine.....	L. C. Royer.....	515,695	Feb. 27	2835	706	66	1433
Steam-engine.....	W. S. Rush.....	531,276	Dec. 18	2110	507	69	1629
Steam-engine.....	S. Scognamiglio.....	513,830	Jan. 30	3495	861	66	792
Steam-engine.....	W. D. Sherman.....	530,555	Dec. 11	867	214	69	1399
Steam-engine.....	E. Shydecker.....	516,064	Mar. 6	539	125 126	66	1553
Steam-engine.....	B. F. Sparr.....	520,456	May 29	2645	639	67	1089
Steam-engine.....	N. Tesla.....	517,900	Apr. 10	792	199	67	167
Steam-engine.....	S. and C. L. Torrey.....	519,850	May 15	1605	392	67	865
Steam-engine.....	G. Vyne.....	514,396	Feb. 6	701	177 178	66	985
Steam-engine.....	G. H. Waring and O. B. White.....	512,638	Jan. 9	1497	361	66	295
Steam-engine. Direct-acting.....	W. E. Hill.....	513,107	Jan. 23	2294	555	66	529
Steam-engine. Direct-acting.....	W. E. Hill.....	530,341	Dec. 4	473	118	69	1300
Steam-engine. Direct-acting.....	D. F. Nisbet.....	511,905	Jan. 2	304	70, 71	66	59
Steam-engine. Duplex.....	L. F. Voisard.....	526,645	Sept. 25	2296	549 550	68	1611
Steam-engine for air-pumps.....	H. Krentz.....	522,065	June 26	2337	561	67	1674
Steam-engine for reciprocating sawmill-carriages. Direct-acting.....	W. E. Hill.....	531,532	Dec. 25	2567	614	69	1732
Steam-engine. Multiple-cylinder.....	A. W. Ofeldt.....	513,650	Jan. 30	3219	790 791	66	739
Steam-engine. Oscillating.....	E. E. P. Truesdell.....	515,180	Feb. 20	1974	492	66	1256
Steam-engine. Quick-speed.....	J. P. Devoissaud.....	519,943	May 15	1754	430 431	67	893
Steam-engine. Reversible.....	F. Lester.....	523,360	July 24	2051	515 516	68	432
Steam-engine. Triple-cylinder.....	N. J. Tubbs.....	511,868	Jan. 2	196	48, 49	66	41
Steam-engine. Twin-screw.....	H. Friedeborn.....	514,650	Feb. 13	1124	220 221	66	1023
Steam-engines. Apparatus for extracting grease from water of condensation from.....	W. H. Hooker.....	516,738	Mar. 20	1683	399	66	1797
Steam-generating apparatus.....	H. McPhail.....	516,060	Mar. 6	534	124	66	1552
Steam-generating appliance.....	C. W. Hicks.....	517,949	Apr. 10	876	220	67	181
Steam. Generation of.....	C. W. Baker.....	529,997	Nov. 27	2623	630	69	1176
Steam. Generation of.....	W. Schmidt.....	529,754	Nov. 27	2188	522	69	1093
Steam-generator.....	D. Birdsall.....	521,329	June 12	1022	240 241	67	1395
Steam-generator.....	J. E. Dame.....	518,689	Apr. 24	2164	541 542	67	441
Steam-generator.....	P. Dubiau.....	522,517	July 3	584	149 150	68	115
Steam-generator.....	A. W. Finlayson.....	519,059	May 1	196	46	67	574
Steam-generator.....	P. Fitzgibbons.....	530,889	Dec. 11	1410	336	69	1427
Steam-generator.....	H. E. Franz.....	527,526	Oct. 16	1402	341 342	69	289
Steam-generator.....	A. F. Gillet.....	518,101	Apr. 10	1140	287	67	224
Steam-generator.....	D. Halpin.....	513,932	Jan. 30	3635	896	66	820
Steam-generator.....	W. E. Kelly.....	523,793	July 31	2419	700	63	587
Steam-generator.....	J. H. Kendall.....	523,391	Nov. 20	1571	373	69	972
Steam-generator.....	C. H. and W. A. Preston.....	523,263	July 31	2958	737	68	613
Steam-generator.....	T. L. and T. J. Sturtevant.....	523,447	July 24	2208	555	68	459
Steam-generator.....	T. L. and T. J. Sturtevant.....	523,448	July 24	2209	555	68	459
Steam-generator.....	C. W. Vanderburgh.....	521,062	June 5	555	130	67	2297

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Steam-generator	J. A. and G. W. Welton, Jr	515,267	Feb. 20	2122	526	66	1284
Steam-generator	G. Zabikian	518,016	Apr. 10	1002	251	67	201
Steam-generator and heating apparatus	I. Fisher and J. W. Partridge	516,088	Mar. 6	573	134	66	1559
Steam-generator section	T. L. and T. J. Sturtevant	524,740	Aug. 21	1322	323	68	933
Steam-generator. Sectional	J. H. I. Claudon	530,017	Nov. 27	2664	639	69	1184
Steam-motor	C. E. Beaumont and G. P. Walling-ton	527,356	Oct. 9	1114	272	69	921
Steam-motor	J. H. and J. D. Lucas	517,981	Apr. 10	935	234	67	191
Steam-motor. Impact rotary	W. H. Willey	530,375	Dec. 4	529	132	69	1311
Steam or baking pan	P. Hoogerzeil	512,615	Jan. 9	1463	353	66	298
Steam or hot-water boiler	E. Gurney	528,325	Oct. 30	2793	673 674	69	573
Steam or hot-water boiler	W. M. Mackay	525,274	Aug. 28	2250	543 549	68	1117
Steam or hot-water heater	H. E. Chadwick	527,405	Oct. 16	1197	294	69	250
Steam or other fluid boiler	L. P. Perkins	529,304	Nov. 13	1407	337	69	922
Steam or other fluid pressure engine	C. F. Wennberg	514,295	Feb. 6	558	139 140	66	958
Steam or other motive-fluid engine	W. C. Church	519,238	May 1	538	129 130 131	67	642
Steam. Preparing	J. Van Ruymbeke	522,131	June 26	2447	529	67	1694
Steam-pressure gage	J. F. McElroy	519,921	May 15	1716	421	67	886
Steam-separator	G. W. Aulmann and W. R. Harris	521,492	June 19	1336	310	67	1471
Steam-separator	T. J. Cleaver	522,450	July 3	478	121	68	95
Steam-separator	W. B. Culver	523,929	July 31	3059	764	68	632
Steam-separator	P. Goan	525,012	Aug. 28	1802	440	68	1036
Steam-separator	M. W. Iles	522,416	July 3	416	106	68	83
Steam-separator	C. J. Mellin	520,604	May 29	2292	699	67	1134
Steam-separator for boiler-tubes	J. J. Hogan	520,884	June 5	239	55	67	1241
Steam. Separator for removing lubricant from ex-haust	J. H. Blessing	514,439	Feb. 13	761	195	66	1014
Steam-shovel	G. Holmes	519,955	May 15	1772	434	67	896
Steam shovel or excavator	J. B. Webber	528,312	Oct. 30	2774	669 670	69	570
Steam. Superheating	W. Schmidt	518,162	Apr. 10	1238	311	67	241
Steam to boilers and heating feed-water. Apparatus for returning exhaust	R. M. Schotzko	512,993	Jan. 16	2136	508	66	430
Steam-trap	B. C. Altebrandt	512,263	Jan. 9	880	213	66	179
Steam-trap	V. D. Anderson	525,524	Sept. 4	341	84	68	1214
Steam-trap	F. M. Ashley	517,422	Apr. 3	2	1	67	3
Steam-trap	J. Balmore	516,178	Mar. 13	723	169	66	1603
Steam-trap	J. L. Chapman	518,053	Apr. 10	1067	269	67	211
Steam-trap	R. J. Flinn	514,883	Feb. 13	1509	378	66	1156
Steam-trap	O. Gasset	526,862	Oct. 2	324	79	69	61
Steam-trap	O. Gasset	528,665	Nov. 6	261	64	69	693
Steam-trap	E. H. Gold	511,943	Jan. 2	364	85	66	69
Steam-trap	F. A. Littlefield	513,648	Jan. 30	3216	789 790	66	739
Steam-trap	J. McKellar	522,268	July 3	166	44	68	33
Steam-trap	A. F. Nagle	522,668	July 10	841	209 210	68	178
Steam-trap	C. W. Nason	521,962	June 26	2165	519	67	1642
Steam-trap	E. L. Perry	520,077	May 22	1991	487	67	951
Steam-trap	J. J. Royle	522,496	July 3	546	139	68	108
Steam-trap	T. S. Smith and A. M. Shepard	531,139	Dec. 18	1858	441	69	1584
Steam trap and feeder	D. L. Long	522,020	June 26	2272	544	67	1661
Steam. Tube for superheating	E. Schworer	515,974	Mar. 6	389	90	66	1525
Steamer. Fruit or vegetable	M. Fuller	517,217	Mar. 27	2494	586 587	66	1969
Steaming and cleaning grain. Apparatus for	J. E. Riley	516,114	Mar. 6	607	142	66	1566
Steaming appliance. Face	M. De Witt	517,846	Apr. 10	714	180	67	152
Steel and the manufacture of edge tools therefrom. Converting cast-iron blanks into	J. Hooper	522,595	July 10	720	184	68	156
Steel bars. Machine for upsetting the ends of	E. H. Bourne	515,190	Feb. 20	1989	496	66	1259
Steel. Decarbonizing	W. K. Topley	528,214	Oct. 30	2603	.....	69	539
Steel. Manufacture of	B. Talbot	522,034	June 26	2291	.....	67	1665
Steel plates. Producing locally-annealed	H. Lemp	531,197	Dec. 18	1964	466	69	1603
Steel. Reworking scrap	H. Harris	531,262	Dec. 18	2039	.....	69	1625
Steering apparatus	R. S. Peabody	528,967	Nov. 13	826	194	69	817
Steering apparatus. Steam	C. H. Hawkins	515,772	Mar. 6	76	18	66	1468
Steering apparatus. Steam	E. Heyde	521,632	June 19	1602	375	67	1519
Steering-engine	M. A. Beck	528,356	Oct. 30	2843	689 690	69	583
Steering-gear	J. E. Allen	530,154	Dec. 4	130	35	69	1239
Steering-gear. Electric	F. L. Dyer	515,286	Feb. 20	2156	536 537	66	1291
Steering-gear. Vessel	D. M. Maxon	526,930	Oct. 2	441	109	69	83
Steering-gear. Vessel	O. Schölicher	528,183	Oct. 30	2542	616 617	69	529
Stencil	G. W. Robinson	529,464	Nov. 20	1707	407	69	996
Stencil-sheets. Manufacture of	J. Brodick	535,675	Sept. 4	595	.....	68	1260
Step or stair cover	B. B. Whaley	514,342	Feb. 6	625	100	66	970
Stereopticon	E. Hudson	518,104	Apr. 10	1145	228	67	225
Stereotype-block-trimming apparatus	A. Kayser	513,330	Jan. 23	2654	643	66	601
Stereotype-matrices and type-writing. Machine for producing	T. G. and H. Daw	531,586	Dec. 25	2656	637 638	69	1750
Stereotyping-press	W. J. Egan	526,148	Sept. 18	1437	336	68	1437
Sterilization of materials in bottles, jars, &c. Apparatus for use in	A. Hüssener	529,619	Nov. 20	1967	468 469	69	1044
Sterilizing and disinfecting apparatus	J. M. Van Heusen	516,416	Mar. 13	1118	265 266	66	1677
Sterilizing apparatus	G. Popp and H. Becker	529,190	Nov. 13	1199	289 290	69	883

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Di-g.	Vol.	Page.
Sterilizing by steam.	G. Popp and J. H. Becker	516,509	Mar. 13	1284	305	66	1707
Sterilizing milk, &c.	G. Popp and J. H. Becker	524,649	Aug. 14	1168	287	68	893
Sterilizing or cooking apparatus	L. Edelman	513,899	Jan. 30	3607	889	66	815
Sterilizing purposes. Receptacle for	O. B. W. Schier	522,235	July 3	103	24	68	20
Stethoscopic instrument	R. C. M. Bowles	526,802	Oct. 2	216	52	69	41
Stiffeners for ladies' dresses. Machine for corrugat- ing	G. Rosenwald	515,615	Feb. 27	2702	{ 671 411 412 }	66	1407
Still for obtaining nitric acid, &c.	M. Prentice	527,718	Oct. 16	1707	{ 411 412 }	69	345
Still.	W. J. Johnson	514,600	Feb. 13	1051	263	66	1068
Still.	E. Piepenbring	521,811	June 26	1882	450	67	1589
Still-step	L. C. Packham and C. L. Cline	515,839	Mar. 6	170	41	66	1485
Stirring and aerating apparatus	J. F. Dornfeld	518,665	Apr. 24	2129	533	67	434
Stirring-in or mixing device	W. H. Howard	529,617	Nov. 20	1964	467	69	1044
Stitch separating and indenting machine	J. B. Hadaway	521,978	June 26	2193	{ 528 529 }	67	1647
Stock-loader	C. Rotzien and P. Arnold	515,794	Mar. 6	107	25	66	1474
Stock-rake	A. Fiscus	512,176	Jan. 2	744	181	66	142
Stock-trough	T. C. and H. W. Harry	531,184	Dec. 18	1943	461	69	1599
Stoker. Coal.	W. H. Hannan	523,982	Aug. 7	24	6	68	667
Stoker. Mechanical	T. R. Butman	526,341	Sept. 18	1764	{ 418 419 }	68	1501
Stone and ore crusher	C. G. Collins	519,566	May 8	1139	274	67	767
Stone. Artificial	E. Goode	518,239	Apr. 17	1386		67	286
Stone. Artificial	L. Grote	521,264	June 12	908		67	1375
Stone. Artificial	A. Wallenberg	517,811	Apr. 3	660		67	123
Stone-breaker. Gyratory.	P. W. Gates	525,409	Sept. 4	160	41	68	1180
Stone-breakers. Inclined diaphragm of gyratory.	P. W. Gates	525,405	Sept. 4	154	39	68	1179
Stone-carving machine	A. Zanardo	518,640	Apr. 24	2079	{ 518 519 }	67	425
Stone. Composition for artificial	B. W. Eddy	531,520	Dec. 25	2552		69	1729
Stone-crusher	J. J. Brewis	525,401	Sept. 4	148	37	68	1177
Stone-crusher	M. G. Bunnell	511,998	Jan. 2	449	{ 106 107 }	66	86
Stone-crusher	C. L. Carman	525,402	Sept. 4	149	37, 38	68	1178
Stone-crusher	C. L. Carman and P. W. Gates	530,087	Dec. 4	18	4, 5, 6	69	1218
Stone-crusher	P. W. Gates	525,406	Sept. 4	155	39	68	1179
Stone-crusher heads to shafts. Method of and means for securing	P. W. Gates	525,407	Sept. 4	156	40	68	1179
Stone-crusher. Portable	C. L. Carman	525,403	Sept. 4	151	38	68	1178
Stone-crushers. Frame and hopper for gyratory	A. E. Hoyt	525,419	Sept. 4	174	44, 45	68	1183
Stone-cutting saw	O. W. Norcross	511,965	Jan. 2	399	93	66	76
Stone-cutting tools. Securing diamonds in	R. Marquart	531,051	Dec. 18	1699	404	69	1555
Stone-dressing machine	N. P. Ostberg	512,317	Jan. 9	970	{ 237 238 }	66	196
Stone-dressing tool	O. P. Howard	513,509	Jan. 30	2964	729	66	694
Stone grinding or polishing machine	J. Lavers	524,081	Aug. 7	207	47	68	699
Stone, marble, &c. Mechanical sawing and mold- ing	F. J. G. Fromholt	518,029	Apr. 10	1020	257	67	205
Stone. Molding-box for artificial	R. Avenarius	525,325	Sept. 4	2	1	68	1151
Stone or cement composition. Artificial	C. A. Shank	520,662	May 29	2981		67	1150
Stone or ore crushers. Concave for	I. M. Van Wagner	525,398	Sept. 4	143	36	68	1177
Stone, ore, &c. Machine for crushing	O. Williams	530,285	Dec. 4	389	97	69	1286
Stone-planers. Shaping attachment for	H. W. Rightmyer	530,903	Dec. 11	1433	340	69	1491
Stone-polishing machine	A. F. Spaulding	515,801	Mar. 6	117	28	66	1475
Stone-polishing wheel	F. B. Yerger	522,546	July 3	626	160	68	123
Stone-sawing apparatus	M. L. Ritchie	525,283	Aug. 28	2969	552	68	1121
Stone-sawing machines. Guide-clamp for	H. W. Rightmyer	530,242	Dec. 4	294	72	69	1269
Stone-screen	J. J. Donovan	521,209	June 12	812	191	67	1357
Stone-setting band	C. Betsch	512,093	Jan. 2	607	146	66	116
Stone structures. Filling for joints, fractures, &c., of	C. H. Slicer	525,292	Aug. 28	2279		68	1123
Stone-working machine	R. D. Field and E. O. Pratt	517,742	Apr. 3	551	134	67	107
Stone-working machine	S. Hernon	513,969	Jan. 30	3711	914	66	836
Stone-working machines. Attachment for	R. D. Field	525,700	Sept. 11	659	154	68	1284
Stones of small size for toys, &c. Making artificial	F. Hermann	527,059	Oct. 9	634		69	133
Stool. Adjustable	P. A. Bredsvold	516,183	Mar. 13	730	171	66	1605
Stool and cane. Camp	M. R. Mathewson	517,351	Mar. 27	2711	636	66	2012
Stool and foot-rest. Combined	P. C. Brown	518,935	May 1	2	1	67	537
Stool attachment	T. S. Crapp	514,307	Feb. 6	579	144	66	962
Stool. Folding	F. L. and F. A. Joy	523,072	July 17	1535	384	68	322
Stool. Folding	M. O. March	517,929	Apr. 10	840	211	67	76
Stool. Milking	C. J. Blakley	526,916	Oct. 2	418	104	69	78
Stool. Milking	T. McMonagle	512,260	Jan. 2	871	210	66	164
Stool. Shoe-fitting	J. E. Wheeler	516,716	Mar. 20	1635	389	66	1789
Stools. Wooden base for piano	P. H. York	528,706	Nov. 6	325	79	69	705
Stop-motion	C. A. Taft	519,295	May 1	638	155	67	660
Stop-motion	S. B. Westcott	519,463	May 8	945	228	67	733
Stop-motion. Electric	J. Weir	518,297	Apr. 17	1481	370	67	304
Stopper:							
See Bottle-stopper. Leak-stopper.							
Bottle lock-stopper. Tube-stopper.							
Bung-stopper. Water-bag stopper.							
Flue-stopper.							
Stopper	J. L. Miller	523,539	July 24	2370	595	68	489
Stopper	M. Rubin	521,047	June 5	527	124	67	1293
Stopper extractor. Bottle	E. W. Robinson	528,031	Oct. 23	2282	550	69	466
Stopper-puller	A. W. Butterfield	523,972	Aug. 7	7	2	68	664
Stoppers. Manufacture of screw	J. J. Varley	527,517	Oct. 16	1385	337	69	286
Stoppers. Opening-lever for bail	W. Noe	513,338	Jan. 23	2669	647	66	604
Storage-battery	G. B. Fraley	513,910	Jan. 30	3620	892	66	817
Storage-battery	H. K. Hess	525,017	Aug. 28	1808	{ 441 442 }	68	1037
Storage-battery	H. K. Hess	525,018	Aug. 28	1811	442	68	1038

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Storage-battery.....	W. A. Phillips and J. B. Entz.....	518,966	May 1	46	12	67	544
Storage-battery.....	C. J. Reed.....	528,647	Nov. 6	230	57, 58	69	688
Storage-battery.....	C. J. Reed.....	528,648	Nov. 6	232	59	69	688
Storage-battery. Electrical.....	B. C. Van Emon.....	524,656	Aug. 14	1178	290	68	895
Storage-battery system of distribution.....	J. Trumpy.....	511,821	Jan. 2	112	28	66	24
Storage-battery system of distribution.....	J. Trumpy.....	511,822	Jan. 2	114	28	66	25
Store-fixture bracket.....	R. P. Palmenberg.....	517,190	Mar. 27	2453	577	66	1961
Store-service.....	L. G. Bostedo.....	523,455	July 24	2223	558 } 559 }	68	462
Store-service apparatus.....	W. R. Cole.....	529,599	Nov. 20	1939	461	69	1039
Store-service apparatus.....	J. S. Goodnow.....	521,283	June 12	938	222 } 223 }	67	1380
Store-service apparatus.....	D. Lippy.....	519,288	May 1	625	152	67	658
Store-service apparatus.....	C. Smyth.....	522,625	July 10	778	196	68	166
Store-service apparatus.....	J. W. Thew.....	518,431	Apr. 17	1752	431	67	350
Store-service apparatus.....	H. D. B. Williams.....	513,166	Jan. 23	2393	578	66	550
Store-service apparatus.....	H. D. B. Williams.....	516,461	Mar. 13	1201	289	66	1692
Store-service apparatus. Curved track for.....	T. E. Barrow.....	518,909	Apr. 24	2548	630	67	511
Stove.....	J. J. Eskil.....	512,689	Jan. 16	1596	383	66	329
Stove.....	C. C. Free.....	519,705	May 15	1379	332	67	823
Stove.....	J. A. Horton and S. M. Quest.....	515,147	Feb. 20	1924	482	66	1247
Stove.....	M. Jahn.....	522,015	June 26	2266	543	67	1660
Stove.....	F. Jones.....	523,666	July 31	2594	646	68	517
Stove.....	W. J. Keep.....	527,751	Oct. 16	1765	425	69	355
Stove.....	W. J. Keep.....	528,945	Nov. 13	792	185	69	811
Stove.....	N. Lehmann.....	527,067	Oct. 9	642	156	69	135
Stove.....	A. A. Ruby.....	528,989	Nov. 13	857	209	69	823
Stove.....	W. D. Southard.....	516,233	Mar. 13	819	191	66	1621
Stove.....	F. L. Voegtly and J. Schroeffel.....	515,065	Feb. 20	1793	453	66	1222
Stove and burner. Oil.....	E. G. Mummery.....	513,713	Jan. 30	3324	821	66	759
Stove and heater. Combined.....	F. K. Wilcox and C. E. Vail.....	519,750	May 15	1442	348	67	834
Stove and lamp. Oil.....	J. P. Place.....	520,499	May 29	2721	659	67	1101
Stove ash-pit mold.....	L. Kahn and H. V. Moore.....	526,904	Oct. 2	396	99	69	74
Stove attachment. Cook.....	A. C. Goeddel.....	513,967	Jan. 30	3709	913	66	835
Stove-boards. Manufacture of.....	J. L. Schultz and A. C. Westlake. (Reissue.)	11,444	Oct. 2	603	146	69	113
Stove. Caboose or other.....	J. Spear.....	526,206	Sept. 18	1541	362	68	1456
Stove. Cooking.....	S. Boal.....	527,382	Oct. 9	1158	284	69	230
Stove. Cooking.....	A. B. Clunies.....	521,701	June 19	1681	394	67	1535
Stove. Cooking.....	R. H. Hayes.....	521,410	June 12	1165	277	67	1425
Stove-door knob.....	W. W. Shoe.....	530,287	Dec. 4	377	93	69	1284
Stove. Foot.....	A. Kindley.....	524,485	Aug. 14	898	221	68	843
Stove for burning gas.....	D. McDonald.....	525,665	Sept. 4	579	138	68	1258
Stove for drying matrices.....	F. Schreiner.....	520,578	May 29	2848	688	67	1126
Stove for heating street-cars.....	M. K. Bowen.....	519,442	May 8	913	220	67	727
Stove. Gas.....	A. B. Hutchins.....	527,558	Oct. 23	1959	471	69	407
Stove. Gas.....	C. H. Miller.....	525,109	Aug. 28	1985	485	68	1068
Stove. Gas.....	F. W. Robertshaw and J. M. Cooper.....	526,791	Oct. 2	202	48	69	38
Stove. Gas.....	L. M. Stone.....	518,903	Apr. 24	2536	627 } 628 }	67	508
Stove. Gas.....	W. A. Todd.....	530,139	Dec. 4	106	27	69	1234
Stove. Gas.....	C. S. Upton.....	520,507	May 29	2731	662	67	1104
Stove gas-burner.....	J. B. Wallace.....	527,566	Oct. 16	1460	355	69	299
Stove. Gasoline.....	M. W. Palmer and C. S. Munro.....	528,795	Nov. 6	480	117 } 118 }	69	734
Stove. Hay or straw burning.....	J. H. Linton.....	514,086	Feb. 6	174	41	66	887
Stove-hearth and ash-box. Combined.....	E. L. Flood.....	520,591	May 29	2873	695	67	1131
Stove. Heating.....	J. S. Harkins.....	524,248	Aug. 7	469	110 } 111 }	68	747
Stove. Heating.....	L. S. N. Wright and C. S. Bailey.....	519,011	May 1	117	28	67	558
Stove. Heating oil.....	V. E. Randall.....	521,813	June 26	1885	451	67	1590
Stove-hood.....	T. M. and C. A. Hornor and T. L. Egan.....	514,003	Feb. 6	45	11	66	863
Stove. Hot-air.....	H. J. Wattles.....	525,170	Aug. 28	2101	511	68	1088
Stove. Hot-air heating.....	C. S. Dean.....	525,069	Aug. 28	1910	468	68	1056
Stove hot-water generator.....	A. Saunders.....	514,732	Feb. 13	1271	317	66	1110
Stove. Hydrocarbon.....	A. Rosenzweig.....	523,054	July 17	1512	378	68	317
Stove. Lamp.....	C. S. Upton.....	518,127	Apr. 10	1182	296	67	232
Stove. Lamp.....	C. S. Upton.....	520,506	May 29	2730	661	67	1103
Stove-lid, &c.....	L. D. Gould.....	516,373	Mar. 13	1052	250	66	1664
Stove-lid lifter.....	A. Shepard.....	521,557	June 19	1441	335	67	1490
Stove lid or cover mold.....	F. Kaempfen, Jr.....	512,195	Jan. 2	774	168	66	147
Stove-lifters, &c. Device for suspending.....	O. J. Baldwin and J. L. Kerstetter.....	518,174	Apr. 10	1261	317	67	245
Stove. Meat-broiler gas.....	B. S. Koll.....	521,718	June 19	1711	404	67	1542
Stove. Oil.....	J. Keils.....	514,555	Feb. 13	964	243	66	1052
Stove. Oil.....	T. J. Mabbitt.....	512,309	Jan. 9	955	234	66	193
Stove. Oil.....	E. G. Mummery.....	530,849	Dec. 11	1349	322	69	1476
Stove. Oil.....	J. F. Place.....	520,498	May 29	2719	658	67	1101
Stove. Oil.....	A. C. West.....	530,609	Dec. 11	954	234	69	1405
Stove. Oil cook.....	C. H. Boeck.....	520,407	May 29	2564	620	67	1074
Stove. Oil or lamp.....	H. P. Wilder.....	521,748	June 19	1766	418	67	1551
Stove or furnace.....	T. Austin.....	520,978	June 5	412	98	67	1272
Stove or furnace magazine.....	H. M. Allen.....	512,262	Jan. 9	879	213	66	179
Stove or furnace pipe.....	R. H. Martin.....	513,586	Jan. 30	3103	763	66	720
Stove or heater. Gas.....	D. Rogers and T. Jones.....	512,222	Jan. 2	818	196	66	155
Stove or other burners. Lighting device for gas.....	J. B. Wallace.....	516,904	Mar. 20	1943	458	66	1847
Stove or portable warmer. Pocket.....	J. T. Ellis.....	527,598	Oct. 16	1517	368	69	309
Stove or range.....	W. L. Butts.....	515,515	Feb. 27	2536	628	66	1373
Stove or range.....	R. M. Clark and G. E. Gilhaus.....	516,628	Mar. 13	1485	352	66	1745
Stove or range.....	J. Spear.....	521,827	June 26	1909	458	67	1594
Stove or range. Coal and gas burning.....	A. Stecke.....	531,602	Dec. 25	2687	644	69	1756
Stove or range. Cooking.....	T. Gaskins.....	520,229	May 22	2268	552	67	1001
Stove or range. Cooking.....	J. W. Norton.....	518,764	Apr. 24	2305	573	67	465

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Stove or range for burning bituminous coal	W. A. Greene	529,376	Nov. 20	1533	367	69	966
Stove. Ornamental	J. S. Van Buren	516,617	Mar. 13	1462	{ 345 346 }	66	1741
Stovepipe	A. Kaiser	522,599	July 10	724	185	68	157
Stovepipe attachment	J. H. Huntress	521,959	June 26	2161	519	67	1641
Stovepipe attachment	G. A. Kurtis	523,795	July 31	2822	701	68	588
Stovepipe attachment	L. Reaser	526,260	Sept. 18	1628	382	68	1473
Stovepipe attachment	W. Wilson	528,408	Oct. 30	2936	710	69	599
Stovepipe-elbow	C. and A. Lindemann	521,621	June 19	1554	363	67	1510
Stovepipe-elbow machine	A. Syversen	519,062	May 1	204	47, 48	67	575
Stovepipe-fastener	J. A. Hadley	530,484	Dec. 4	724	178	69	1347
Stovepipe-fastener	C. Heme	518,692	Apr. 24	2170	543	67	442
Stovepipe-fastening device	C. A. Parks and A. Goodell	525,469	Sept. 4	259	63	68	1199
Stovepipe-joint	F. R. Braman	521,875	June 26	1941	479	67	1608
Stovepipe-joint	J. E. Smiley	518,816	Nov. 6	524	127	69	741
Stovepipe-joint	M. Stehle	537,380	Oct. 9	1155	283	69	230
Stovepipe-joint. Extension	G. Laube	514,857	Feb. 13	1463	369	66	1149
Stovepipe or flue cleaner	A. Y. Graham	515,314	Feb. 20	2213	547	66	1301
Stovepipe-punching machine	C. Eshliman	529,025	Nov. 13	913	216	69	832
Stovepipe-shelf	C. N. Johnson	525,461	Sept. 4	243	59	68	1195
Stovepipe-thimble	W. Biermann	528,139	Oct. 30	2475	598	69	516
Stovepipe ventilating attachment	A. Bay	528,711	Nov. 6	329	81	69	706
Stove. Portable	J. Sinclair	523,920	July 31	3045	760	68	629
Stove. Sheet-metal	C. T. McCarroll	524,342	Aug. 14	663	163	68	798
Stove. Soldering	E. T. Burgess	515,993	Mar. 6	425	97	66	1531
Stove. Straw-burning	E. A. Calahan	523,806	July 31	2-43	707	68	592
Stove-top	W. G. Price	523,375	July 24	2076	523	68	437
Stove. Vapor	H. Ruppel	521,128	June 5	664	{ 156 157 }	67	1317
Stove. Vapor heating	B. S. Koll	520,686	May 29	3039	736	67	1161
Stoves. Gas heating attachment for solid-fuel	G. Bavier	512,268	Jan. 9	888	214	66	180
Stoves. Heating attachment for gas cooking	J. Gny	530,640	Dec. 11	1015	243	69	1415
Stoves. Hot-air attachment for	L. Brooke	531,502	Dec. 25	2522	603	69	1723
Stoves or ranges. Grate and fire-chamber for	G. G. Wolfe	525,831	Sept. 11	900	{ 200 201 }	68	1327
Stoves or ranges. Oven-door for cooking	F. V. Knauss	526,974	Oct. 2	498	122	69	93
Stoves, ranges, &c. Brick-holder for	H. Eiben	518,056	Apr. 10	1070	270	67	212
Stoves. Vaporizer for gasoline	G. W. Billings	523,302	July 17	1952	{ 491 492 }	68	398
Stoves. Vaporizer for gasoline	C. H. Childs	513,669	Jan. 30	3246	796	66	744
Stoves. Water-heater for gas	L. M. Stone	519,050	May 1	180	43	67	571
Strainer	D. B. Gotham	511,770	Jan. 2	43	11	66	11
Strainer	D. B. Gotham	530,586	Dec. 11	919	225	69	1399
Strainer and aerator. Milk	P. S. Ryan	526,637	Sept. 25	2275	544	68	1608
Strainer attachment. Barrel	F. B. Postlethwaite	520,168	May 22	2167	527	67	922
Strainer for coffee-pots, &c.	T. R. Fischer	523,720	July 31	2696	668	68	564
Strainer for conductor-pipes	E. G. Minnemeyer	522,667	July 10	839	209	68	178
Strainer for tea or coffee pots. Press	F. Fontneau	519,108	May 1	287	68	67	590
Strainer. Milk	H. W. Diers	514,646	Feb. 13	1118	279	66	1082
Strap:							
See Box-strap. Harness or other strap.							
Currency-strap. Hitching-strap.							
Harness breast-strap. Shawl-strap.							
strap. Trousers-strap.							
Strap attachment	J. Reed. (Reissue)	11,432	July 10	1345	334	68	271
Strap-fastener	F. L. Moore	522,024	June 26	2277	{ 545 546 }	67	1662
Strap-loop	J. Reed	530,056	Nov. 27	2739	657	69	1198
Strapboard-bending apparatus	T. Remus	529,192	Nov. 13	1203	290	69	884
Strapboard-lining machine	L. Blessing	530,502	Dec. 11	758	186	69	1371
Straw-burning boiler	F. F. Landis	512,555	Jan. 9	1373	332	66	271
Straw-conveyer	W. L. Johnson and W. L. Hay	531,041	Dec. 18	1681	{ 398 399 }	69	1551
Straw-elevator. Pneumatic	F. F. Landis	514,266	Feb. 6	503	124	66	947
Straw-elevators. Discharge-pipe for pneumatic	F. F. Landis	512,556	Jan. 9	1375	332	66	272
Straw-elevators. Discharger for pneumatic	F. F. Landis	512,557	Jan. 9	1376	333	66	272
Straw-elevators. Flexible pipe for pneumatic	F. F. Landis	512,558	Jan. 9	1377	333	66	272
Straw-stacker	W. A. Hinkle	518,843	Apr. 24	2430	603	67	487
Straw-stacker	E. W. Kruse	513,400	Jan. 23	2767	675	66	622
Straw-stacker	F. F. Landis	512,553	Jan. 9	1370	331	66	271
Straw-stacker	F. F. Landis	522,759	July 10	1029	254	68	209
Straw-stacker	J. McCollough	529,400	Nov. 20	1584	377	69	974
Straw-stacker	J. W. Nethery	519,680	May 8	1333	{ 321 322 }	67	801
Straw-stacker	F. P. Richards	513,597	Jan. 30	3118	766	66	722
Straw-stacker	A. Vanhouweling	518,637	Apr. 24	2075	517	67	424
Straw-stacker	J. M. Welbourn	530,294	Dec. 4	383	97	69	1255
Straw-stacker discharge-pipe	F. F. Landis	522,760	July 10	1031	254	68	210
Straw-stacker. Pneumatic	F. F. Landis	522,758	July 10	1026	254	68	208
Straw-stacker. Pneumatic	A. A. McKain and W. Seburn	518,620	Apr. 24	2043	503	67	419
Straw-stacker. Pneumatic	J. W. Nethery	517,290	Mar. 27	2612	613	66	1991
Straw-stacker. Pneumatic	J. W. Nethery	517,475	Apr. 3	101	22, 23	67	21
Straw-stacker. Pneumatic	N. Newsom	524,394	Aug. 14	755	184	68	81
Straw-stacker. Pneumatic	G. E. Warne	526,423	Sept. 25	1944	464	68	1546
Straw-stackers. Centrifugal discharger for	F. F. Landis	517,524	Apr. 3	176	39	67	36
Straw-stackers. Centrifugal discharger for pneumatic	F. F. Landis	517,525	Apr. 3	177	40	67	36
Straw-stackers. Deflector for pneumatic	F. F. Landis	519,473	May 8	971	235	67	736
Straw-stackers. Mouthpiece for pneumatic	F. F. Landis	519,474	May 8	972	235	67	736
Straw-stacking machine	M. T. Reeves	517,530	Apr. 3	184	42	67	38
Street-clearing apparatus	A. E. Trevithick	523,635	Sept. 4	521	{ 125 126 }	68	1248
Street-indicator	A. Hadam and C. Wolf	530,768	Dec. 11	1224	297	69	1453

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Street or station indicator.....	B. Barnett.....	515,929	Mar. 6	306	72, 73	66	1511
Street or station indicator.....	H. R. Kuersten.....	513,117	Jan. 23	2319	555 559	66	535
Street-sprinkler.....	L. C. Atwood and W. T. Treadway.....	530,062	Nov. 27	2746	659	63	1199
Street-sweeper.....	M. Crawford, Jr.....	512,161	Jan. 2	727	176	66	138
Street-sweeper.....	F. W. Deasau.....	526,222	Sept. 18	1569	368 369	68	1461
Street-sweeper.....	P. B. Donahoo.....	521,852	June 26	1945	467 468	67	1601
Street-sweeper.....	T. W. Downs.....	518,716	Apr. 24	2227	554	67	451
Street-sweeper.....	C. Fisher.....	524,709	Aug. 21	1269	313	68	924
Street-sweeper.....	R. W. Furnas.....	514,676	Feb. 13	1174	232	66	1092
Street-sweeper.....	R. W. Furnas.....	514,677	Feb. 13	1176	293	66	1092
Street-sweeper.....	R. W. Furnas.....	514,678	Feb. 13	1177	294	66	1093
Street-sweeper.....	J. B. Gathright.....	512,544	Jan. 9	1356	328	66	268
Street-sweeper.....	W. A. Green.....	525,075	Aug. 28	1922	471	68	1052
Street-sweeper.....	G. B. Marx.....	514,658	Feb. 13	1138	284	66	1085
Street-sweeper.....	N. B. Miller.....	527,757	Oct. 16	1777	428	69	358
Street-sweeper.....	G. Morrow.....	521,665	June 19	1623	380 381	67	1524
Street-sweeper.....	H. Mueller, Jr.....	525,815	Sept. 11	860	196 197	68	1321
Street-sweeper.....	H. Mueller, Jr.....	528,548	Nov. 6	42	11	69	654
Street-sweeper.....	H. Mueller, Jr.....	529,132	Nov. 13	1091	263 264	69	865
Street-sweeper.....	C. Z. O'Neill.....	515,501	Feb. 27	2515	623	66	1369
Street-sweeper.....	A. P. Palmer and H. L. Phelps.....	513,438	Jan. 23	2821	692	66	632
Street-sweeper.....	J. H. Reynolds.....	524,563	Aug. 14	1030	254	68	867
Street-sweeper.....	A. J. Roberts.....	520,080	May 22	1995	488	67	952
Street-sweeper.....	A. G. Rosenhauer and R. Brussel.....	529,198	Nov. 13	1211	292 293	69	885
Street-sweeper.....	G. B. Siccardi.....	526,794	Oct. 2	207	49	69	39
Street-sweeper.....	J. B. Tilton.....	517,709	Apr. 3	498	119 120	67	96
Street-sweeper.....	W. L. Tobey.....	524,875	Aug. 21	1547	379	68	974
Street-sweeper.....	W. L. Tobey.....	525,751	Sept. 11	745	173	68	1300
Street-sweeper.....	W. H. Walker and T. H. Boyce.....	531,079	Dec. 18	1744	416	69	1562
Street-sweeper.....	W. H. Walls.....	518,168	Apr. 10	1248	313 314 315	67	243
Street-sweeper.....	W. F. Wilson.....	512,854	Jan. 16	1909	451	66	388
Stretcher.....	S. N. Hiser.....	524,824	Aug. 21	1468	358 359	68	960
Stretching-block.....	A. Müller and L. Schulz.....	523,541	July 24	2373	595 596	68	489
Striking-bag.....	C. A. Forsberg.....	524,894	Aug. 21	1577	325	68	97
Striking-bag disk.....	C. A. Daniel.....	516,719	Mar. 20	1639	390	66	1790
Stringed instrument.....	H. Ackermann.....	522,870	July 10	1182	295	68	240
Stringed instrument.....	J. Connery.....	526,221	Sept. 18	1568	368	68	1461
Stringed-instrument attachment.....	A. Pietsch.....	523,373	July 24	2072	521	68	436
Stringed-instrument bridge.....	A. Graham.....	521,909	June 26	2054	494	67	1623
Stringed instruments. Device for producing over-tones in.....	F. X. Audet, Jr.....	525,688	Sept. 11	633	149	68	1381
Structural material. Manufacturing.....	E. M. Butz.....	526,804	Oct. 2	221	53, 54	69	42
Structural metal-work.....	A. Krause.....	515,963	Mar. 6	365	86	66	1521
Structural metal-work.....	A. Krause.....	523,075	July 17	1540	385	68	322
Structure. Supporting.....	H. Petterson.....	524,347	Aug. 14	671	164	68	800
Structure. Tubular underground.....	R. L. Harris.....	528,367	Oct. 30	2869	693	69	5-6
Stud. Collar or scarf.....	W. H. Peer.....	515,444	Feb. 27	2432	603	66	1354
Stud. Lacing.....	A. Mathison.....	525,152	Aug. 28	2057	502	68	1081
Stud or fastener for shirt-wristbands, &c.....	J. Nadal.....	528,339	Oct. 30	2815	680	69	577
Stud. Sheet-metal.....	M. H. Crittenden and F. V. Emery.....	518,645	Apr. 24	2091	521	67	427
Studs. Making lacing.....	F. B. Manville.....	525,275	Aug. 28	2256	549	68	1118
Stuffing-box.....	L. C. S. Frick.....	518,810	Apr. 24	2387	590	67	479
Stuffing-box.....	H. G. Williams.....	517,509	Apr. 3	156	34	67	32
Stump-extractor.....	C. N. Blood.....	523,100	July 17	1533	397	68	332
Stump-extractor.....	E. O'Neill.....	515,158	Feb. 20	1941	485	66	1250
Stump-extractor.....	G. B. Pulley.....	517,362	Mar. 27	2732	642	66	2015
Stump-extractor.....	J. H. Rouse.....	519,821	May 15	1560	352	67	857
Stump-extractor.....	J. C. Sharp.....	521,480	June 19	1310	305 306	67	1466
Stump-extractor.....	J. C. Sharp.....	526,567	Nov. 6	66	18 19 20	69	659
Stump-extractor.....	A. J. Smith.....	524,914	Aug. 21	1609	394	68	984
Stump-extractor.....	J. C. Smith.....	528,994	Nov. 13	864	205	69	824
Stump-extractor.....	W. R. Wilkinson.....	521,352	June 12	1078	252 253	67	1407
Stump-puller.....	H. L. Bennett and R. B. Adams.....	515,317	Feb. 27	2224	551	66	1315
Stump-puller.....	A. J. Larkin.....	519,263	May 1	580	141	67	650
Stump-puller or load-lifter.....	M. Allmon.....	521,251	June 12	885	209	67	1370
Sty and feeding-trough. Hog.....	A. Auchly.....	516,906	Mar. 20	1946	459	66	1848
Submarine boat.....	D. T. Freese and J. D. Gawn.....	521,854	June 26	1948	468 469	67	1602
Submarine drilling apparatus.....	T. Symonds.....	516,032	Mar. 6	487	112 113	66	1542
Subway system. Electrical.....	J. C. Reilly.....	524,789	Aug. 21	1402	342	68	948
Sucker-rod adjuster.....	D. M. Edmonds.....	529,322	Nov. 13	1432	344	69	927
Sucker-rod adjuster.....	D. M. Edmonds.....	529,323	Nov. 13	1432	345	69	927
Sucker-rod elevator and wrench.....	D. W. Black.....	512,938	Jan. 16	2046	485	66	413
Sucker-rods. Adjustable socket-clamp for.....	J. A. Kidd and G. W. Hess.....	521,502	June 19	1351	314	67	1475
Suction-pipe drag.....	E. O. Patterson.....	528,022	Oct. 23	2265	547	69	462
Suction-pipe for suction devices.....	C. F. Pike.....	528,977	Nov. 13	843	199	69	820
Sugar. Centrifugal machine for steaming.....	S. S. Hepworth.....	514,264	Feb. 6	500	123	66	947

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Sugar from cane. Extracting.....	F. De Coninck and E. C. Burr.....	514,431	Feb. 6	749	191	66	994
Sugar from sorghum. Extracting.....	G. Monselise.....	522,478	July 3	519	131 132	68	103
Sugar. Manufacturing.....	O. Lugo.....	512,200	Jan. 2	783		66	148
Sugar manufacture. Settling-tank for.....	E. W. Deming.....	526,518	Sept. 25	2096	500	68	1574
Sugar. Means for and method of converting starchy material into.....	J. Takamine.....	525,971	Sept. 11	1138		68	1371
Sugar-refineries. Apparatus for heating water in.....	C. Spreckels.....	529,469	Nov. 20	1716	409	69	998
Sugar-refining apparatus.....	J. Lach.....	518,152	Apr. 10	1218	306	67	239
Sugar-wagon box.....	G. W. Miller.....	530,439	Dec. 4	627	156	69	1330
Suit. Combination.....	M. Loewenthal.....	515,435	Feb. 27	2422	600	66	1352
Sulfate lyes. Process of and apparatus for purifying.....	C. von Grabowski.....	515,763	Mar. 6	61	14	66	1465
Sulfite-digester.....	J. Norton, Jr.....	527,876	Oct. 23	1989	478	69	412
Sulfite-fiber separator.....	E. F. Millard.....	523,048	July 17	1503	375	68	315
Sulfonic compounds. Making pure.....	E. W. R. Schröter.....	513,204	Jan. 23	2450		66	560
Sulfur candle.....	C. T. Kingzett.....	516,207	Mar. 13	775	181	66	1613
Sulfur candle and making same.....	C. E. Parker and S. W. Williams.....	527,881	Oct. 23	2001	480	69	414
Sulky.....	F. Dentler.....	512,686	Jan. 16	1589	381 382	66	327
Sulky.....	W. H. C. Diessel, W. O. and E. D. Foote.....	528,927	Nov. 13	756	177	69	805
Sulky.....	S. Elliott.....	521,460	June 19	1275	297	67	1460
Sulky.....	S. Elliott.....	521,878	June 26	1987	420	67	1609
Sulky.....	J. P. Faber.....	522,657	July 10	823	206	68	174
Sulky.....	W. F. and S. E. Limpus.....	518,507	Apr. 17	1858	461	67	371
Sulky.....	G. J. Loomis.....	518,462	Apr. 17	1786	443	67	359
Sulky.....	F. S. Stoddard.....	525,033	Aug. 28	1839	449	68	1044
Sulky.....	S. Toomey.....	522,631	July 10	791	198	68	169
Sulky.....	W. J. Wayne.....	529,822	Nov. 27	2310	550	69	1116
Sulky-brake.....	L. E. Clawson and J. A. McKerron.....	520,877	June 5	220	50	67	1237
Sulky. Pneumatic.....	G. W. Clarke.....	522,150	June 26	2489	597	67	1702
Sulky. Trotting.....	H. A. Pennock.....	529,185	Nov. 13	1191	286	69	882
Sulky. Trotting.....	C. Weigand.....	516,250	Mar. 13	847	198	66	1626
Sunshade for hats, &c.....	J. Roedel, Jr.....	514,273	Feb. 6	519	127	66	951
Superheater.....	G. Abrams.....	520,288	May 22	2369	575	67	1020
Supporter.....	D. L. Smith.....	521,249	June 12	882	209	67	1370
Surface-gage.....	O. C. L. Ekman.....	519,703	May 15	1375	331 332	67	822
Surcingle.....	F. A. Le Count.....	523,534	July 24	2365	593	68	488
(Surgical.) Appliance for treatment of the uterus.....	F. W. Haviland.....	512,024	Jan. 2	491	117	66	94
Surgical cabinet and irrigating device.....	E. M. Lundholm.....	528,232	Oct. 30	2635	635 636	69	545
Surgical chair.....	O. Baruch.....	516,908	Mar. 20	1951	459	66	1848
Surgical chair.....	F. E. Case.....	530,159	Dec. 4	138	37	69	1240
Surgical chair.....	H. G. Leisenring.....	513,584	Jan. 30	3100	762	66	719
Surgical chair.....	W. M. Lottridge.....	524,969	Aug. 21	1703	418	68	1061
Surgical chair.....	J. E. Ronze.....	515,303	Feb. 20	2191	543	66	1297
Surgical chair. Adjustable.....	T. J. Shackelford and J. F. Milton-berger.....	520,579	May 29	2849	688 689 690	67	1126
(Surgical.) Device for rectifying the uterus.....	F. W. Haviland.....	512,961	Jan. 16	2087	495	66	421
Surgical instrument.....	V. H. Hallman.....	518,600	Apr. 24	2010	499	67	414
Surgical instrument.....	W. Scheerer.....	521,555	June 19	1439	334	67	1490
Surgical ligature-holder.....	H. A. Kaysan.....	517,574	Apr. 3	260	60	67	51
Surgical-ligature preparation and inclosure.....	R. Kny.....	514,558	Feb. 13	968	244	66	1033
Surgical needle.....	H. A. Blanchard.....	527,263	Oct. 9	957	232	69	193
Surgical splint.....	L. A. Deuther.....	525,046	Aug. 28	1869	456	68	1049
Surgical splint.....	H. A. Weed.....	529,002	Nov. 13	878	207	69	826
Surgical table.....	A. H. Campbell.....	516,587	Mar. 13	1410	335	66	1731
Surgical table.....	O. Grasemann.....	517,801	Apr. 3	642	160 161	67	125
Surgical tourniquet.....	G. L. B. Rounseville.....	515,367	Feb. 27	2307	573	66	1331
Surveying-instrument.....	W. Hinton.....	524,591	Aug. 14	1066	263 264	68	874
Surveying-instrument.....	W. R. Whipple.....	519,010	May 1	116	28	67	558
Suspender cast-off.....	G. E. Adams.....	528,624	Nov. 6	177	43	69	678
Suspender cast-off.....	C. Bloomberg.....	520,723	May 29	3097	750	67	1171
Suspender-ends. Cast-off for.....	G. E. Adams.....	530,318	Dec. 4	424	106	69	1292
Suspender-plate and cast-off.....	A. C. Knothe.....	514,231	Feb. 6	444	106	66	936
Suspender-web fastening.....	F. A. Burnam.....	523,804	July 31	2841	706	68	591
Suspenders.....	G. E. Adams.....	521,071	June 5	572	134	67	1300
Suspenders.....	L. Bloom.....	527,654	Oct. 16	1605	387	69	326
Suspenders.....	J. M. Bohn.....	521,082	June 5	589	138	67	1303
Suspenders.....	J. A. Miller.....	513,709	Jan. 30	3319	819	66	758
Suspenders.....	F. Wieland.....	518,383	Apr. 17	1655	409	67	335
Suspending device.....	C. M. Pitel.....	511,795	Jan. 2	78	20	66	18
Suspending device.....	C. M. Pitel.....	511,967	Jan. 2	402	93	66	77
Suspensory.....	A. H. Parker.....	521,176	June 12	755	177	67	1347
Suspensory pouch.....	A. Bauer and T. W. Heiuenmann.....	516,258	Mar. 13	860	200	66	1629
Swage.....	A. C. Mette.....	519,817	May 15	1554	381	67	856
Swaging-machine.....	A. I. Jacobs.....	514,147	Feb. 6	278	68	66	906
Swaging-machine. Rotary.....	J. C. Taft.....	515,376	Feb. 27	2323	576	66	1334
Swift. Yarn.....	L. M. Herz.....	516,015	Mar. 6	457	105	66	1537
Swimming apparatus.....	G. C. Busen.....	516,963	Mar. 20	2041	483	66	1866
Swimming-pool or bath.....	A. Suro.....	520,342	May 22	2463	597	67	1038
Swing.....	S. I. Alston.....	529,232	Nov. 13	1273	306	69	896
Swing.....	W. E. Crandall and M. Smith.....	521,335	June 12	1046	246	67	1401
Swing.....	C. E. Hobbs.....	526,151	Sept. 18	1443	337	68	1438
Swing. Portable.....	R. E. and G. E. Shorey.....	531,472	Dec. 25	2471	588	69	1713
Swing-support.....	E. D. Shaver.....	513,539	Jan. 30	3028	746	66	705
Swinging gate.....	W. Hemme.....	516,052	Mar. 6	519	121	66	1549
Swinging gate.....	B. O. McCoy.....	513,715	Jan. 30	3326	821	66	759

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Switch:							
See Automatic switch.	Interlockingsafety-switch.						
Battery-switch.							
Cable-switch.	Overhead switch.						
Carbon switch.	Railway-switch.						
Circuit-switch.	Railway electric switch.						
Electric switch.	Railway overhead switch.						
Electric plug-switch.	Safety-switch.						
Electric snap-switch.	Self-closing switch.						
Electric starting-switch.	Signal-switch.						
Electrical switch.	Snap-switch.						
Electrical testing-switch.	Telephone-switch.						
Electrically-governed switch.	Telephone-exchange switch.						
Electromagnetic switch.	Tongue-switch.						
	Tramway-switch.						
	Trolley-wire switch.						
Switch	F. B. Batt.	529,578	Nov. 20	1910	455	69	1033
Switch	H. P. Ball	520,474	May 29	2676	646	67	1094
Switch	J. G. Dixon	527,482	Oct. 16	1329	324	69	277
Switch	C. E. Galbreath	516,527	Mar. 13	1318	314	66	1714
Switch	C. Hansel	529,168	Nov. 13	1157	{ 278 279 }	69	877
Switch	A. P. Odell	516,105	Mar. 6	593	{ 139 140 }	66	1564
Switch	R. B. Yerby	524,036	Aug. 7	112	24	68	682
Switch-actuating mechanism.	A. Matz	528,005	Oct. 23	2240	541	69	458
Switch-actuating mechanism.	S. Walker and L. Marshall	527,637	Oct. 16	1580	382	69	322
Switch and lock movement	A. H. Johnson	518,721	Apr. 24	2237	557	67	453
Switch and operating mechanism	J. E. Downer	517,002	Mar. 20	2102	497	66	1877
Switch and signal apparatus.	F. L. Dodgson	513,231	Jan. 23	2491	{ 602 603 }	66	569
Switch and signal lever	H. B. Potter	529,407	Nov. 20	1595	379	69	976
Switch and signal operating device	J. H. Frischen	513,497	Jan. 30	2947	725	66	091
Switch and signal operating mechanism	N. Ratchford	519,735	May 15	1423	{ 343 344 }	67	831
Switch apparatus	J. G. Schreuder	526,328	Sept. 18	1746	{ 413 414 }	68	1498
Switch attachment.	C. Olson	530,448	Dec. 4	640	159	69	1333
Switch attachment.	G. D. Warren and J. Casey	517,783	Apr. 3	618	154	67	120
Switch-bar	F. A. Weller	513,745	Jan. 30	3369	831	66	767
Switchboard	L. A. Berthou	529,999	Nov. 27	2025	{ 630 631 }	69	1177
Switchboard	W. A. Childs	512,805	Jan. 16	1811	430	66	370
Switchboard	E. F. Frost	516,862	Mar. 20	1872	443	66	1834
Switchboard for high-tension circuits	J. J. Wood	520,128	May 22	2059	508	67	967
Switchboard system.	D. H. Wilson	514,980	Feb. 20	1637	415	66	1198
Switchboard system. Multiple.	C. E. Scribner	529,421	Nov. 20	1618	385	69	981
Switchboards. Busy-test for multiple.	R. H. Polk	527,393	Oct. 9	1177	288	69	234
Switchboards. Busy-test for multiple.	J. A. Wotton	521,303	June 12	982	232	67	1388
Switchboards. Testing system for multiple.	C. E. Scribner	520,543	May 29	2789	674	67	1114
Switch-closer. Automatic.	W. I. Wands	522,308	July 3	229	61	68	46
Switch-detector bar	J. H. Boylett	523,702	July 31	2658	659	68	558
Switch-lock	S. E. Barlett	517,722	Apr. 3	518	125	67	100
Switch-lock	D. Lavery	522,219	July 3	78	17	68	16
Switch-lock attachment.	L. Dedel	525,678	Sept. 4	539	143	68	1261
Switch mechanism.	S. B. Battey	529,515	Nov. 20	1803	429	69	1013
Switch-operating device	H. P. Cogswell	513,883	Jan. 30	3590	884	66	811
Switch-operating device	W. F. Dermody	522,109	June 26	2413	579	67	1687
Switch-operating device	C. Diener	531,166	Dec. 18	1913	456	69	1593
Switch-operating device	G. A. Fulford	525,892	Sept. 11	1009	227	68	1347
Switch-operating device	H. H. McKee	523,543	July 24	2376	596	68	490
Switch-operating device. Pneumatic.	F. L. Dodgson	514,119	Feb. 6	223	52	66	896
Switch-operating mechanism	C. C. Lott	514,759	Feb. 13	1311	326	66	1118
Switch-operating mechanism	W. H. Zerbe, Jr.	525,041	Aug. 28	1859	{ 454 455 }	68	1047
Switch-operating mechanism. Automatic.	C. P. Bachelder	522,096	June 26	2385	574	67	1683
Switch safety device. Point.	L. Dunn	524,273	Aug. 7	510	119	68	753
Switch setting and locking device.	W. Wendelin	513,548	Jan. 30	3039	749	66	708
Switch setting and locking device. Electrical.	K. Moderegger	531,130	Dec. 18	1838	{ 436 437 }	69	1580
Switch-signal. Electric	T. L. and N. W. Dalton	515,751	Mar. 6	29	8,9	66	1460
Switch-stand.	B. F. Driever and J. W. Mixon	525,454	Sept. 4	234	57	68	1194
Switch-stand.	C. Partington	523,592	July 24	2453	615	68	504
Switch-stand.	J. B. Suffern	516,241	Mar. 13	830	194	66	1623
Switch-stand.	J. B. Suffern	516,242	Mar. 13	832	195	66	1623
Switch-stand and switch-operating mechanism	J. H. Quimby	512,216	Jan. 2	809	196	66	153
Switch-stand. Automatic	J. W. Murray	517,878	Apr. 10	753	189	67	160
Switch-thrower	J. G. Sieber	531,473	Dec. 25	2472	589	69	1713
Switch-working mechanism	R. E. Brackelsberg and G. G. Edwards.	519,230	May 1	522	126	67	639
Switch-working mechanism.	C. L. Lincoln	526,979	Oct. 2	505	124	69	94
Switch-working mechanism	J. and C. McGhee	531,270	Dec. 18	2101	504	69	1626
Switches. Safety shift or lock for split	G. L. Warren	531,238	Dec. 18	2044	{ 487 488 }	69	1616
Switching from main to side tracks. Means for	J. B. Duguid	515,823	Mar. 6	152	37	66	1481
Swivel	F. Salathé	515,023	Feb. 20	1721	432	66	1210
Swivel-bracket for rods	T. Morris	517,620	Apr. 3	335	79	67	65
Sword-belt and hanger	L. H. Allien	514,604	Feb. 13	1379	347	66	1132
Synchronism indicator. Audible	R. D. Mershon	529,398	Nov. 20	1581	376	69	974
Synchronism indicator. Audible	R. D. Mershon	529,399	Nov. 20	1583	377	69	974
Synchronizing alternating-current motors or generators. Method of and means for	H. N. Potter	529,461	Nov. 20	1703	406	69	996
Syringe	G. Beck	519,014	May 1	121	29	67	559

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Syringe	A. L. Gray	527,681	Oct. 16	1654	398	69	335
Syringe	J. Hardman, Jr.	523,345	July 24	2033	511	68	429
Syringe	C. D. Harsin	515,288	Feb. 20	2164	537 538	66	1293
Syringe	J. Lalonde	513,238	Jan. 23	2512	605	66	573
Syringe	P. B. Laskey	530,187	Dec. 4	195	48	69	1250
Syringe	C. C. Lusby and C. H. Richardson ..	526,452	Sept. 25	1999	476	68	1556
Syringe	E. C. Manning	531,545	Dec. 25	2591	620	69	1737
Syringe	C. A. Neal	514,378	Feb. 6	676	171	66	980
Syringe	C. J. Tagliabue	524,962	Aug. 21	1689	414	68	998
Syringe	S. F. Yount	525,174	Aug. 28	2107	512	68	1089
Syringe. Fountain-	H. B. Nickerson	511,790	Jan. 2	74	18	66	17
Syringe. Hypodermic	J. W. Daily	515,705	Feb. 27	2849	709	66	1435
Syringe. Vaginal	J. M. Lamb and J. C. Hardesty	526,353	Sept. 18	1788	424	66	1505
Table	See Bagatelle-table. Invalid's table.						
Table	Billiard-table. Ironing-table.						
Table	Brick or tile cutting Kitchen-table.						
Table	table. Knockdown table.						
Table	Card-table. Machine-table.						
Table	Casket-trimming Molding-table.						
Table	table. Pasting-table.						
Table	Drafting-table. Peeling-table.						
Table	Elevator-table. Self-waiting table.						
Table	Extension-table. Surgical table.						
Table	Folding table. Tally-table.						
Table	Folding or extension Tobacco-booking table.						
Table	table. Whist-table.						
Table	Game-table.						
Table	J. W. Carver	526,144	Sept. 18	1428	334	68	1436
Table	F. O. Claflin	516,262	Mar. 13	866	201 202	66	1630
Table	J. Heissenberger	516,013	Mar. 6	453	104 105	66	1536
Table	W. C. Jones	522,598	July 10	722	185	68	157
Table	C. Storz, F. Sorg, and F. Henni ..	529,210	Nov. 13	1235	297	69	890
Table	J. Waddell	531,236	Dec. 18	2042	487	69	1616
Table and bed. Combined folding	R. Ettinger	517,607	Apr. 3	309	73	67	61
Table for draftsmen, &c	J. W. Bramwell	520,630	May 29	2932	708	67	1141
Table-knife	R. Krohn	515,777	Mar. 6	85	20	66	1469
Table-leg fastening	J. Ritchey	512,992	Jan. 16	2134	507	66	429
Table or chair legs. Shoe for bent-wire ..	J. F. Wilnot	514,744	Feb. 13	1290	321	66	1114
Table-service. Article for	A. and A. Iske	514,322	Feb. 6	598	151	66	965
Table, sink, &c	W. H. Hendrick	517,005	Mar. 20	2107	499	66	1878
Tables, blinds, desks, &c. Flexible cover for ..	C. S. Homer	520,526	May 29	2762	668	67	1109
Tableaux vivants. Apparatus for displaying ..	E. von Kilanyi	528,372	Oct. 30	2872	695	69	588
Tableaux vivants. Apparatus for displaying ..	E. von Kilanyi	528,373	Oct. 30	2873	696	69	588
Tablet-compressing machine	H. H. Jones	531,536	Dec. 25	2572	616	69	1732
Tablet. Editor's or reporter's ready copy-paper ..	W. S. McKean	515,005	Feb. 27	2684	667	66	1403
Tablet for physicians, &c. Continuous	C. N. Leonard	511,854	Jan. 2	169	42	66	35
Tablet-forming machine	J. Beddow	517,153	Mar. 27	2381	563	66	1947
Tablet-forming machine	F. S. Hereth	527,980	Oct. 23	2188	527	69	449
Tablet or manuscript-holder. Writing	B. W. Scott	514,777	Feb. 13	1338	335 336	66	1123
Tablet. Writing	J. Köstner	524,805	Aug. 21	1432	350	68	954
Tablet. Writing	M. Rubin	531,065	Dec. 18	1715	408	69	1558
Tablets. Machine for the manufacture of compressed ..	L. Thomas	528,572	Nov. 6	85	22	69	662
Tabulating system	H. Hollerith	518,885	Apr. 24	2495	618 619 620	67	500
Tabulating system	H. Hollerith	518,886	Apr. 24	2506	621	67	502
Tack-centering guide for tack-driving machines ..	D. B. Nye	513,820	Jan. 30	3478	856	66	789
Tack-driver and carpet-stretcher	A. J. Smith	516,455	Mar. 13	1188	225	66	1690
Tack-driving implement	M. Brock	516,074	Mar. 6	550	128	66	1555
Tack-driving implement	C. D. Rogers	529,958	Nov. 27	2535	611	69	1157
Tack-driving machine	M. R. and F. N. Ethridge	513,384	Jan. 23	2740	667 668	66	617
Tack-driving machine	W. T. Hoofnagle	527,985	Oct. 23	2204	531	69	452
Tack-driving machine	E. Woodward	515,269	Feb. 20	2124	527 529	66	1284
Tack-distributer	W. O. Wheeler	518,933	Apr. 24	2597	643	67	519
Tack. Thumb	A. A. Woodward	524,660	Aug. 14	1186	291	68	896
Tackle-block	H. V. Hartz	527,490	Oct. 16	1338	326	69	278
Tackles. Automatic locking device for	H. P. J. Kessler	512,380	Jan. 9	1075	262	66	215
Tag, envelope, and receipt. Combined shipping- ..	N. J. Bishoprick	515,275	Feb. 20	2135	531	66	1286
Tag-holder	W. B. McDermut	529,873	Nov. 27	2390	572	69	1132
Tag-machine	W. M. Little	519,264	May 1	581	142	67	650
Tag. Marking	S. Daneyger	520,414	May 29	2572	622	67	1076
Tag. Marking	A. Grundy	512,468	Jan. 9	1246	300	66	247
Tag. Price and cost	J. D. Parrott	529,746	Nov. 27	2176	518	69	1090
Tags and counting and separating same into piles. } Machine for making	C. E. Sawyer	515,024	Feb. 20	1721	432 433 434 435 436	66	1210
Tags, cards, &c. Device for counting and separating ..	C. E. Sawyer	512,060	Jan. 2	550	130 131	66	105
Tags. Machine for the manufacture of shipping- ..	G. F. Danielson	522,514	July 3	578	148	68	114
Tail-board catch for dumping-vehicles	H. B. McKee	523,171	July 17	1732	434	68	357
Taka-koji ferment and preparing and making same ..	J. Takamine	525,824	Sept. 11	888	.....	68	1325
Taka-koji. Preparing and making	J. Takamine	525,820	Sept. 11	874	.....	68	1322
Taka-moyasbi. Preparing and making	J. Takamine	525,822	Sept. 11	881	.....	68	1324
Talking-board	M. Schirman	520,616	May 29	2907	702	67	1137
Tally-register for grain-measurers	C. Snyder	528,817	Nov. 6	525	127	69	741

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Tally-table.....	F. W. Sowatsky and M. Schimmeyer.	528,568	Nov. 6	82	21	69	661
Tank:							
See Compression-tank. Railway water-tank.							
Fluid-tank. Range-tank.							
Flush-tank. Rendering-tank.							
Flushing-tank. Settling-tank.							
Gas-holder tank. Water-closet tank.							
Measuring-tank. Water-closet flushing-tank.							
Pickling-tank.							
Tank combined with thermometer and gage.....	J. E. Williams.	522,927	July 10	1287	318	68	259
Tank-feeder.....	H. Raymond.	524,689	Aug. 14	1230	300	68	904
Tank-furnace. Recuperative.....	R. R. Morrison	518,851	Apr. 24	2443	605	67	489
Tank mold. Water.....	H. F. Tickner and A. Butler	518,292	Apr. 17	1476	369	67	303
Tank regulator. Open.....	J. Thomas.	531,482	Dec. 25	2484	592	69	1716
Tanks. Automatic shut-off for roof.....	C. F. De Arden	521,336	June 12	1047	246	67	1401
Tanks. Automatic shut-off mechanism for water.....	R. Schaeffer	530,659	Dec. 11	1047	255	69	1420
Tanning apparatus.....	J. Caillet	512,861	Jan. 16	1923	455	66	391
Tanning composition.....	W. T. Harrison	514,549	Feb. 13	954	241	66	1050
Tanning. Process of and apparatus for.....	J. B. Hodges	526,229	Sept. 18	1578	68	1463	
Tap. Ale.....	C. B. Warrand.	517,083	Mar. 27	2269	536	66	1825
Tap for drawing liquids from casks.....	S. Van Hennik	527,739	Oct. 16	1744	421	69	352
Tap for drawing liquids from casks, barrels, &c.	P. C. Leidich	519,430	May 8	894	216	67	723
Tap-holder. Reversing.....	J. H. Blessing and T. E. Murray	529,355	Nov. 20	1485	358	69	958
Tap or faucet.....	F. C. McClary	531,382	Dec. 25	2307	551	69	1622
Tap-wrench.....	M. P. Schetzel	526,327	Sept. 18	1744	413	68	1498
Tapping apparatus. Main.....	A. H. Kent	515,292	Feb. 20	2170	539	66	1294
Tapping-machine.....	D. O'Neil	527,877	Oct. 23	1991	478	69	412
Tape from leather-board or other material. Making.	M. Crawford, Jr.	522,654	July 10	820	205	68	174
Target and indicator.....	W. P. Gay	518,030	Apr. 10	1021	257	67	205
Target-trap.....	C. Schifferdecker	521,049	June 5	531	125	67	1293
Target-trap.....	W. C. Donaldsen	525,317	Aug. 28	2326	563	68	1131
Target-trap.....	W. A. Wildhack	525,640	Sept. 4	527	127	68	1249
Target-trap electrical releasing device.....	C. H. North	529,666	Nov. 20	2042	490	69	1058
Target trap. Flying.....	A. H. and C. C. Hebbard	527,854	Oct. 23	1951	467	69	405
Target-trap. Self-feeding.....	H. W. Tichenor	519,512	May 8	1098	249	67	746
Target-traps. Release for.....	B. O. Bush	531,260	Dec. 18	2085	499	69	1624
Target. Traveling.....	W. Y. Allen	518,931	Apr. 24	2582	639	67	517
Target. Vibrating.....	W. Y. Allen	518,930	Apr. 24	2582	638	67	516
Targets. Mold for making composition.....	H. F. Parker	513,527	Jan. 30	3000	739	66	700
Tawed skin and making same.....	W. M. Norris and H. Burk	518,467	Apr. 17	1797	67	361	
Tawing hides.....	C. Heinzerling	528,162	Oct. 30	2506	69	522	
Tea and sealing packages. Device for sampling.	T. E. Wardwell	525,878	Sept. 11	990	222	68	1344
Tea balls, strainers, &c. Holder for.....	J. S. Peabody	514,427	Feb. 6	743	189	66	993
Tea-chest and attachment.....	C. Toohey	526,511	Sept. 25	2082	496	68	1572
Tea, coffee, &c. Apparatus for making.....	J. Childs	514,988	Feb. 20	1668	417	66	1200
Tea-kettle.....	C. F. Ebling	523,627	July 24	2513	630	68	515
Teapot, coffee-pot, &c.....	F. Hancock	523,344	July 24	2032	510	68	429
Teaching telegraphy. Machine for.....	T. M. Crepar	522,454	July 3	485	123	68	96
Teaching vocal music. Device for.....	M. M. Vogt	522,310	Oct. 30	2772	669	69	570
Teeth-separator.....	W. S. How	513,016	Jan. 16	2172	517	66	436
Teething-ring.....	F. Bosch	516,561	Mar. 13	1371	326	66	1723
Teething-ring.....	M. L. Metzger	526,932	Oct. 2	444	109	69	83
Telantograph.....	E. Gray	522,832	July 10	1214	302	68	245
Telantograph.....	E. Gray	522,893	July 10	1221	303	68	247
Telegraph and telephone system. Combined municipal	H. M. Seitzinger	524,566	Nov. 6	65	17	69	658
Telegraph apparatus.....	J. A. Parker and L. L. Summers	516,552	Mar. 13	1348	321	66	1720
Telegraph. Antographic.....	J. O'Neil	529,300	Nov. 13	1389	335	69	918
Telegraph call. District.....	W. H. Garven	525,649	Sept. 4	541	131	68	1251
Telegraph instrument. Printing.....	J. H. Rogers	524,118	Aug. 7	251	58, 59	68	708
Telegraph-key.....	L. D. Bliss	530,082	Dec. 4	9	3	69	1216
Telegraph-key.....	C. F. Sebring	528,345	Oct. 30	2822	682	69	578
Telegraph key and sounder. Combined.....	P. D. Cox	526,965	Oct. 2	486	119	69	91
Telegraph-key. Finger-board.....	E. E. Mullinix	530,957	Dec. 18	1530	363	69	1524
Telegraph-key. Self-closing.....	H. E. Moss	511,787	Jan. 2	70	18	66	16
Telegraph operator's order-case.....	J. A. Hudson	523,312	July 17	1971	496	68	401
Telegraph. Printing.....	B. A. Fiske	529,484	Nov. 20	1743	414	69	1002
Telegraph. Printing.....	R. A. Fowden	524,711	Aug. 21	1273	313	68	924
Telegraph. Printing.....	O. L. Kleber	521,170	June 12	739	175	67	1344
Telegraph. Printing.....	E. Pope	521,550	June 19	1428	332	67	1488
Telegraph. Printing.....	G. A. Scott	529,630	Nov. 20	1979	472	69	1046
Telegraph. Printing.....	E. A. Wirsching	512,422	Jan. 9	1151	279	66	229
Telegraph-repeater.....	W. E. Sloan	515,845	Mar. 6	185	44	66	1487
Telegraph-repeater.....	A. D. P. Weaver	522,500	July 3	155	141	68	109
Telegraph. Sextuplex.....	T. A. Edison	512,872	Jan. 16	1938	459	66	394
Telegraph. Signal.....	C. V. Boughton	523,617	July 24	2492	626	68	511
Telegraph-signal safety attachment.....	C. W. Babbitt	514,745	Feb. 13	1291	321	66	1114
Telegraph system. Police signal.....	C. A. Rolfe	521,183	June 12	766	179	67	1349

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Telegraphic instructor.....	T. J. Houck and H. M. Browning ..	515,709	Feb. 27	2853	710	66	1436
Telegraphic or telephonic transmission. Apparatus for	M. I. Pupin.....	519,346	May 8	751	185	67	696
Telegraphic, telephonic, or other electrical systems. Transformer for	M. I. Pupin.....	519,347	May 8	757	185	67	697
Telegraphic transmitter.....	F. F. Howe.....	524,635	Aug. 14	1147	{ 281 282 }	{ 68 68 }	{ 889 889 }
Telegraphic and telephonic exchange system	W. Childs.....	523,591	Nov. 6	116	23, 29	69	667
Telegraphing between cars of railways. Means for multiplex	A. Fryer.....	528,902	Nov. 6	688	{ 165 166 }	{ 69 69 }	{ 772 772 }
Telegraphy. Secret.....	A. D. P. Weaver.....	527,518	Oct. 16	1386	337	69	286
Telephone.....	C. T. Bloomer.....	514,695	Feb. 13	1199	299	66	1098
Telephone.....	D. Drawbaugh.....	514,916	Feb. 20	1565	393	66	1181
Telephone.....	S. D. Field.....	523,630	July 24	2518	631	68	517
Telephone.....	E. V. Kolbassieff.....	518,959	May 1	35	10	67	543
Telephone.....	H. W. Libbey.....	526,865	Oct. 2	327	80	69	62
Telephone.....	W. C. and J. M. Lockwood.....	528,640	Nov. 6	219	54	69	686
Telephone.....	S. D. McKelvey.....	517,762	Apr. 3	583	144	67	113
Telephone.....	H. S. Page.....	513,720	Jan. 30	3336	824	66	761
Telephone.....	J. Serdinko.....	529,203	Nov. 13	1221	295	69	887
Telephone.....	H. F. Slocum.....	520,066	May 22	2007	490	67	955
Telephone.....	A. Stromberg and A. Carlson.....	529,818	Nov. 27	2306	549	69	1116
Telephone.....	A. C. White.....	516,982	Mar. 20	2069	490	66	1871
Telephone annunciator and call-bell.....	F. G. Warrell.....	524,009	Aug. 7	70	15	68	675
Telephone apparatus. Coin-controlled.....	C. C. Blake.....	526,608	Sept. 25	2234	533	68	1600
Telephone apparatus. Coin-controlled.....	B. C. Wolverton.....	524,925	Aug. 21	1641	402	68	989
Telephone-call register.....	W. T. Gentry.....	527,759	Oct. 16	1779	429	69	358
Telephone-call recorder.....	W. F. Smith.....	521,422	June 12	1182	{ 281 282 }	{ 67 67 }	{ 1428 1428 }
Telephone-call recorder.....	W. B. Thomson.....	512,413	Jan. 9	1135	{ 276 277 }	{ 66 66 }	{ 226 226 }
Telephone-call-registering apparatus.....	L. Kahn.....	513,364	Jan. 23	2710	658	66	611
Telephone-call system.....	E. T. Gilliland.....	525,702	Sept. 11	661	155	68	1285
Telephone-call system.....	E. T. Gilliland.....	525,703	Sept. 11	663	155	68	1285
Telephone-circuit.....	C. E. Scribner.....	519,876	May 15	1632	402	67	874
Telephone circuit and signal.....	T. Spencer.....	528,040	Oct. 23	2292	553	69	468
Telephone-circuit. Operator's.....	T. C. Wales, Jr.....	522,925	July 10	1284	318	63	258
Telephone-circuits. Signaling system for.....	J. I. Sabin and W. Hampton.....	513,534	Jan. 30	3017	745	66	703
Telephone-directory holder.....	C. C. McCloskey, Jr.....	515,921	Mar. 6	296	70	66	1509
Telephone. Electric.....	W. L. Richards.....	521,220	June 12	831	195	67	1361
Telephone-exchange switch and circuit.....	J. J. O'Connell.....	515,531	Feb. 27	2571	{ 636 637 }	{ 66 66 }	{ 1380 1380 }
Telephone-exchange system.....	R. Callender.....	530,324	Dec. 4	433	{ 108 109 110 }	{ 69 69 69 }	{ 1294 1294 1294 }
Telephone-exchange system.....	W. Childs.....	528,590	Nov. 6	110	27, 28	69	666
Telephone-exchange system.....	J. I. Sabin and W. Hampton.....	518,331	Apr. 17	1541	384	67	313
Telephone-exchange system.....	J. I. Sabin and W. Hampton.....	518,333	Apr. 17	1544	385	67	315
Telephone-exchange system.....	J. I. Sabin and W. Hampton.....	518,334	Apr. 17	1551	385	67	316
Telephone-exchange system.....	R. Callender.....	511,874	Jan. 2	209	{ 53 55 56 56 57 58 59 }	{ 66 66 66 66 66 66 66 }	{ 43 43 43 43 43 43 43 }
Telephone-exchange system.....	R. Callender.....	511,875	Jan. 2	244	{ 57 58 59 }	{ 66 66 66 }	{ 49 49 49 }
Telephone-exchange system.....	E. Pope.....	515,939	Mar. 6	321	77	66	1513
Telephone-exchange systems. Signaling apparatus for	J. H. Cary.....	529,894	Nov. 27	2425	{ 582 583 }	{ 69 69 }	{ 1198 1198 }
Telephone-index.....	C. A. Orth.....	531,556	Dec. 25	2610	{ 624 625 }	{ 69 69 }	{ 1741 1741 }
Telephone. Magnetic.....	F. H. Brown.....	523,927	July 31	3057	763	68	632
Telephone. Magnetic.....	O. Higgins.....	529,174	Nov. 13	1173	282	69	880
Telephone. Magneto.....	A. F. Boardman.....	520,406	May 29	2564	620	67	1074
Telephone. Magneto.....	H. A. Chase.....	516,642	Mar. 20	1513	360	66	1766
Telephone. Magneto.....	H. A. Chase.....	516,643	Mar. 20	1514	360	66	1767
Telephone. Magneto.....	S. D. McKelvey.....	517,763	Apr. 3	585	144	67	113
Telephone. Magneto.....	S. D. McKelvey.....	517,764	Apr. 3	587	144	67	113
Telephone. Magneto.....	A. Stromberg and A. Carlson.....	521,188	June 12	772	181	67	1350
Telephone. Mechanical.....	J. Prince.....	528,390	Oct. 30	2900	703	69	593
Telephone pay-stations. Automatic toll-box for.....	H. C. Root.....	515,170	Feb. 20	1957	{ 488 489 }	{ 66 66 }	{ 1253 1253 }
Telephone pay-stations. Automatic toll-box for.....	H. C. Root.....	525,623	Sept. 4	503	122	68	1245
Telephone-receiver.....	C. Selden.....	515,797	Mar. 6	112	27	66	1474
Telephone-receiver cushion.....	V. A. Cook.....	514,913	Feb. 20	1562	392	66	1180
Telephone-receivers. Ear-pad for.....	J. W. Kinniburgh.....	520,786	June 5	43	10	67	1205
Telephone registering apparatus.....	A. R. Duperu.....	511,883	Jan. 2	270	62	66	53
Telephone signaling system.....	W. Gillette.....	514,823	Feb. 13	1408	356	66	1137
Telephone speaking attachment.....	W. Weber.....	520,467	May 29	2663	644	67	1092
Telephone speaking-tube system.....	T. C. Wales, Jr.....	531,078	Dec. 18	1741	415	69	1562
Telephone-switch.....	R. Callender.....	530,325	Dec. 4	440	110	69	1294
Telephone-switch.....	F. R. Colvin.....	517,263	Mar. 27	2567	602	66	1982
Telephone-switch.....	E. S. Combs.....	529,826	Nov. 27	2314	551	69	1117
Telephone-switch.....	H. T. Johnson.....	524,387	Aug. 14	738	178	68	813
Telephone-switch.....	J. B. Smith.....	521,274	June 12	922	218	67	1377
Telephone-switch.....	A. Stromberg and A. Carlson.....	516,777	Mar. 20	1734	408	66	1206
Telephone-switch.....	A. Stromberg and A. Carlson.....	521,514	June 19	1373	319	67	1478
Telephone-switch.....	A. Stromberg and A. Carlson.....	530,208	Dec. 4	229	57	69	1277
Telephone-switch.....	J. O. Ziegler.....	523,613	July 24	2456	625	68	510
Telephone-switch. Automatic.....	A. C. Wheat.....	513,960	Jan. 30	3695	910	66	833
Telephone-switch. Coin-operated.....	C. F. Brown.....	513,299	Jan. 23	2613	633	66	593
Telephone-switchboards. Apparatus for.....	C. E. Scribner.....	512,398	Jan. 9	1109	269	66	221

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Telephone-switchboards. Apparatus for	C. E. Scribner	512,399	Jan. 9	1111	269	66	221
Telephone system	U. H. Balsley	518,773	Apr. 24	2321	576	67	468
Telephone system	W. Oesterreich	530,598	Dec. 11	939	{ 230 231	69	1403
Telephone system	E. Pope	515,940	Mar. 6	324	77	66	1514
Telephone system	J. I. Sabin	529,465	Nov. 20	1708	{ 407 408	69	997
Telephone system	J. I. Sabin and W. Hampton	518,332	Apr. 17	1544	3-5	67	314
Telephone system. Automatic	L. E. Simoneau	520,246	May 22	2299	558	67	1007
Telephone system. Interior	T. McConbray	516,506	Mar. 13	1279	304	66	1706
Telephone system. Single-line	J. I. Sabin and W. Hampton	517,243	Mar. 27	2529	594	66	1876
Telephone-toll-station instrument	W. T. Gentry	516,433	Mar. 13	1148	275	66	1682
Telephone-transmitter	M. O. Anthony	526,888	Oct. 2	363	91	69	68
Telephone-transmitter	H. L. Baldwin	526,139	Sept. 18	1421	332	68	1435
Telephone-transmitter	A. F. Boardman	530,575	Dec. 11	898	221	69	1395
Telephone-transmitter	W. R. Cole	522,464	July 3	399	102	68	79
Telephone-transmitter	F. R. Colvin	513,305	Jan. 23	2621	635	66	595
Telephone-transmitter	H. Cottrell	518,916	Apr. 24	2557	632	67	512
Telephone-transmitter	S. C. Drew	511,862	Jan. 2	267	61	66	52
Telephone-transmitter	P. Fitzsimons	514,920	Feb. 20	1572	395	66	1182
Telephone-transmitter	H. M. and J. Goodman	520,306	May 22	2393	551	67	1025
Telephone-transmitter	J. and H. M. Goodman	518,142	Apr. 10	1205	302	67	236
Telephone-transmitter	J. and H. M. Goodman	525,201	Aug. 28	2140	522	68	1095
Telephone-transmitter	J. and H. M. Goodman	530,412	Dec. 4	584	145	69	1322
Telephone-transmitter	T. Grissinger	523,276	July 17	1909	481	68	390
Telephone-transmitter	D. A. Kusel	531,194	Dec. 18	1958	465	69	1602
Telephone-transmitter	T. McConbray	527,214	Oct. 9	871	212	69	178
Telephone-transmitter	M. A. Morehouse	530,115	Dec. 4	69	19	69	1228
Telephone-transmitter	F. H. Richards	513,729	Jan. 30	3349	826	66	764
Telephone-transmitter	F. H. Richards	513,730	Jan. 30	3352	{ 826 827	66	764
Telephone-transmitter	J. B. Smith	521,325	June 12	1016	239	67	1395
Telephone-transmitter	F. T. Williams	530,315	Dec. 4	421	105	69	1291
Telephone-transmitter and resistance-varying material therefor	F. R. Colvin	524,524	Aug. 14	966	237	68	854
Telephone-transmitter from secondary batteries	J. J. Carty	518,392	Apr. 17	1664	410	67	337
Telephone trunk-line system	J. I. Sabin and W. Hampton	520,083	May 22	2000	489	67	953
Telephone trunk-lines. Signaling system for	C. E. Scribner	513,537	Jan. 30	3022	746	66	704
Telephones. Antiseptic mouthpiece for	R. N. Denison and F. M. Geary	529,609	Nov. 20	1956	464	69	1042
Telephones. Coin-controlled and coin-return lock for	J. M. Dashiell, Jr	517,445	Apr. 3	55	12	67	12
Telephones. Coin-controlled lock for	P. Cooke and J. L. Harley	525,094	Aug. 28	1958	479	68	1063
Telephones. Time-indicator attachment for	C. Stever	512,454	Jan. 9	1220	295	66	242
Telephones. Variable-resistance medium for	W. W. Jacques	524,172	Aug. 7	351	122	68	725
Telephones. Variable-resistance medium for	W. W. Jacques	524,173	Aug. 7	351	122	68	725
Telephonic and multiple-telegraphic transmission. Composite	F. A. Pickernell	512,214	Jan. 2	804	195	66	153
Telephonic and signaling system. Combined	H. A. Chase	528,075	Oct. 23	2352	568	69	479
Telephonic apparatus	C. Mildé	518,263	Apr. 17	1427	357	67	293
Telephonic system	H. A. Chase	524,480	Aug. 14	891	220	68	842
Telephony	F. R. Colvin	522,707	July 10	905	224	68	190
Telephony	F. R. Colvin	528,592	Nov. 6	121	29	69	668
Telephony	W. C. Lockwood	518,742	Apr. 24	2276	565	67	459
Telephony. Multiple	M. Hutin and M. Leblanc	522,564	July 3	660	{ 168 169	68	129
Telephony. Multiplex	W. W. Jacques	518,367	Apr. 17	1627	{ 401 402	67	330
Tellurian	G. B. Nichols	522,082	June 26	2368	570	67	1680
Tellurian	C. G. Sullivan	531,399	Dec. 25	2330	556	69	1687
Temperature-annunciator. Electrical	E. Kloss	519,634	May 8	1260	303	67	788
Temperature-compensating device	W. H. Bristol	514,258	Feb. 6	490	120	66	945
Temperature-regulator	T. O. Perry	528,645	Nov. 6	227	56	69	684
Temperature-regulator	T. O. Perry	528,736	Nov. 6	369	90	69	714
Temperature-regulator	T. O. Perry	528,799	Nov. 6	492	120	69	736
Temperature-regulator	T. O. Perry	528,800	Nov. 6	495	120	69	736
Temperature-regulator	T. O. Perry	528,801	Nov. 6	497	120	69	736
Tender-scoop	W. F. Kiesel, Jr	531,191	Dec. 18	1054	464	69	1601
Tennis apparatus. Lawn	W. B. Hopkins	523,912	July 31	3030	753	68	626
Tenoning-machine	W. H. Bennett	517,599	Apr. 3	297	69	67	58
Tenoning-machine	W. H. Bennett	525,835	Sept. 11	906	202	68	1328
Tenoning-machine	E. B. Hayes	525,812	Sept. 11	853	{ 194 195	68	1319
Tenpin	W. Krumbeck	514,323	Feb. 6	600	151	66	965
Tenpin-ball	C. W. Rodman	520,598	June 5	265	64	67	1246
Tension device	H. Hibbert, R. Fawcett, and J. Worthington	517,043	Mar. 27	2189	518	66	1910
Tension-regulator. Automatic	W. A. Power	519,617	May 8	1230	295	67	782
Tension-rod	T. A. Lee	513,794	Jan. 30	3437	848	66	780
Tent	T. Moore	512,890	Jan. 16	1969	{ 467 468	66	400
Tent	J. W. Ormsby	514,726	Feb. 13	1261	315	66	1108
Tent	J. J. Rinn	528,392	Oct. 30	2904	{ 703 704	60	593
Tent	J. J. Rinn	528,393	Oct. 30	2907	704	69	594
Tent	J. J. Rinn	528,394	Oct. 30	2910	{ 704 705	69	594
Tent	G. Tolmie	513,841	Jan. 30	3514	865	66	797
Tent and support	P. F. Noonan	522,483	July 3	526	133	68	104
Tent-fastening	J. J. Rinn	528,391	Oct. 30	2901	703	69	593
Tent-pole	A. S. Comstock	516,078	Mar. 6	559	131	66	1557
Tent-pole attachment	C. H. Giessen	524,086	Aug. 7	198	44	68	697
Terra-cotta and other fireproof constructions	J. W. Rowell	531,134	Dec. 18	1850	439	69	1583
Testing-machine	J. H. Kellogg	528,779	Nov. 6	455	112	69	729

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Testing-machine	L. Schopper	521,323	June 12	1014	{ 238 } 239	67	1394
Testing-machine. Centrifugal	F. Hengershoff	523,351	July 24	2040	512	68	430
Testing-machine clamp	C. C. Miller	517,356	Mar. 27	2720	639	66	2013
Tetranitro-anthrachrysone	H. L. Laubmann	511,901	Jan. 2	295	.....	66	57
Textile-machinery apron	J. H. Lorimer	521,912	June 26	2061	495	67	1624
Theater appliance	A. Lake	520,236	May 22	2280	555	67	1003
Theater-chairs. Coin-controlled attachment for	J. W. Patterson	523,943	July 10	1314	327	68	264
Theatrical appliance. Electrical	H. E. Waite	513,850	Jan. 30	3530	869	66	800
Thermal alarm	H. F. Maxim	522,022	June 26	2274	545	67	1661
Thermo-electric battery	E. W. Jungner	521,168	June 12	735	174	67	1343
Thermo-electric generator	H. B. Cox	518,542	Apr. 17	1916	473	67	381
Thermo-electric generator	H. B. Cox	520,711	Nov. 27	2117	508	69	1081
Thermo-electric generator. Sectional	H. B. Cox	529,710	Nov. 27	2115	507	69	1081
Thermo-electric generators. Radiating and supply system for	H. B. Cox	328,924	Nov. 13	752	176	69	804
Thermocauter	H. Wilson	517,180	Mar. 27	2439	574	66	1958
Thermometer	M. Byrno	518,442	Apr. 17	1752	435	67	353
Thermometer	J. T. Craw	530,928	Dec. 13	1480	350	69	1515
Thermometer	A. A. Keene	521,374	June 12	1112	262	67	1414
Thermometer	E. A. Linder	517,388	Mar. 27	2509	655	66	2030
Thermometer	H. W. Maurer	525,915	Sept. 11	1042	237	68	1353
Thermometer attachment for hot-water bags, &c	H. Weinhagen and F. King	522,886	July 10	1178	294	68	239
Thermometer. Cook-stove	A. P. Knowles	523,794	July 31	2821	701	68	587
Thermometer. Magnifying	S. G. Denton	517,446	Apr. 3	60	13	67	14
Thermopiles. Apparatus for mounting and operating	M. L. Severy	527,377	Oct. 9	1150	282	69	228
Thermopiles. Apparatus for utilizing steam for heating	M. L. Severy	527,378	Oct. 9	1151	{ 282 } 283	69	229
Thermostat	E. Barney	516,043	Mar. 6	510	118	66	1547
Thermostat	L. G. Rowand	527,375	Oct. 9	1147	281	69	228
Thermostat	D. W. Thompson	528,189	Oct. 30	2552	619	69	531
Thermostatic alarm	C. Cuttriss	522,972	July 17	1372	341	68	291
Thill-coupling	I. N. Bowen and T. Troxel	529,825	Nov. 27	2314	551	69	1117
Thill-coupling	R. and E. Brent	527,010	Oct. 2	554	135	69	105
Thill-coupling	G. Brownless	529,590	Nov. 20	1925	459	69	1036
Thill-coupling	I. Clark	512,947	Jan. 16	2065	489	66	416
Thill-coupling	W. B. Clark	525,334	Sept. 4	17	4	68	1154
Thill-coupling	C. A. Croshaw	519,697	May 15	1363	329	67	820
Thill-coupling	J. E. Fisher	519,470	May 8	966	233	67	734
Thill-coupling	C. L. Halstead	525,542	Sept. 4	321	93	68	1222
Thill-coupling	W. S. Hartley	527,148	Oct. 9	773	189	69	158
Thill-coupling	J. Henretty	528,670	Nov. 6	268	66	69	694
Thill-coupling	J. A. Ketting	525,604	Sept. 4	473	113	68	1240
Thill-coupling	W. A. Maddy	512,982	Jan. 16	2121	503	66	427
Thill-coupling	J. W. Mullins and R. M. Jackson	530,441	Dec. 4	629	157	69	1330
Thill-coupling	D. Parker	531,558	Dec. 25	2612	625	69	1741
Thill-coupling	J. S. Patten	514,493	Feb. 13	268	221	66	1034
Thill-coupling	G. N. Pearson	523,129	July 17	1658	415	68	344
Thill-coupling	F. W. Rolf	531,565	Dec. 25	2624	628	69	1743
Thill-coupling	F. Schelp, Jr	520,834	June 5	147	32	67	1224
Thill-coupling	C. W. Smith	514,510	Feb. 13	296	228	66	1040
Thill-coupling	C. M. Stevens	524,873	Aug. 21	1546	378	68	973
Thill-coupling	W. D. Turner	523,494	July 24	2300	579	68	475
Thill-coupling	M. Wemple	526,473	Sept. 25	2030	484	68	1561
Thill-coupling	C. Wilcox	528,351	Oct. 30	2829	684	69	580
Thill-coupling	F. P. Ziegler	519,489	May 8	995	241	67	739
Thill-coupling and antirattler. Combined	J. B. Newell	524,604	Aug. 14	1085	268	68	878
Thill-couplings. Antirattler for	A. Fraser	529,625	Nov. 20	1524	434	69	1017
Thill couplings. Antirattler for	F. P. Johnson	515,688	Feb. 27	2826	703	66	1430
Thill-couplings. Antirattler for	M. McKinnon	528,338	Oct. 30	2814	680	69	577
Thill or pole support. Vehicle	J. Baird	525,308	Aug. 28	2300	559	68	1127
Thill-support	D. A. Barrackman	527,101	Oct. 9	690	170	69	144
Thill-support	J. E. Dolber	526,691	Oct. 2	34	9	69	9
Thill-support	J. Hurley	528,102	Oct. 23	2405	581	69	488
Thill-support	A. M. La Foy	512,476	Jan. 9	1261	304	66	250
Thill-support and antirattler. Combined	P. H. McLean	527,710	Oct. 16	1695	408	69	343
Thill-support. Vehicle	S. D. Webb and G. T. Jacobs	512,344	Jan. 9	1014	248	66	204
Thimble	H. White	522,245	July 3	119	28, 29	68	23
Thistles. Composition for exterminating Canada	R. B. Hull	517,861	Apr. 10	729	.....	67	155
Thrasher and separator. Combined pea	J. F. Rhodes	522,493	July 3	540	138	68	107
Thrasher band-cutter and feeder	M. G. Schauer and A. A. Bartlett	528,396	Oct. 30	2914	705	69	595
Thrashing and separating machine. Combined	D. S. Geiser	516,926	Mar. 20	1980	{ 465 } 466	66	1853
Thrashing-cylinder	P. Swenson	529,214	Nov. 13	1241	298	69	891
Thrashing-machine	W. H. Bowen	523,423	July 24	2156	541	68	451
Thrashing-machine	S. D. Crockett	513,069	Jan. 23	2266	547	66	523
Thrashing-machine	J. Hawk	521,497	June 19	1345	312	67	1473
Thrashing-machine	R. Knight	529,623	Nov. 20	1970	470	69	1045
Thrashing-machine	A. M. Lockhart	519,609	May 8	1211	292	67	779
Thrashing-machine	W. S. Miller	511,786	Jan. 2	66	17	66	16
Thrashing-machine	W. Neal	524,264	Aug. 7	495	{ 114 } 115	68	750
Thrashing-machine	F. W. Robinson	524,954	Aug. 21	1678	411	68	996
Thrashing-machine	W. N. Springer	518,706	Apr. 24	2201	549	67	446
Thrashing-machine	P. Swenson	525,749	Sept. 11	743	172	68	1299
Thrashing-machine	D. B. Tanger	513,689	Jan. 30	3276	806	66	751
Thrashing-machine	I. W. Woodburn	530,815	Dec. 11	1293	{ 312 } 313	69	1466
Thrashing-machine air-blast attachment	W. L. Johnson and W. L. Hay	522,901	July 10	1239	{ 307 } 308	68	251
Thrashing-machine attachment	L. T. Austin	528,915	Nov. 13	736	173	69	801
Thrashing-machine band-cutter and feeder	J. Hovey	524,484	Aug. 14	896	221	68	842

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Thrashing-machine band-cntter and feeder	J. Nerison	515,356	Feb. 27	2289	567 568	66	1327
Thrashing-machine band-cntter and feeder	F. A. Oliva	520,216	May 22	2247	547 548	67	997
Thrashing-machine band-cntter and feeder	J. W. Rhodes	517,887	Apr. 10	768	191 192	67	162
Thrashing-machine band-cntter and feeder	D. C. Ruth	524,267	Ang. 7	499	116 117	68	751
Thrashing-machine band-cntter and feeder	W. Taylor	523,183	July 17	1751	439 440	68	361
Thrashing-machine band-cntter and feeder	A. Wemple	518,729	Apr. 24	2248	560	67	454
Thrashing-machine band-cntting attachment	R. L. Cooley	529,601	Nov. 20	1941	462	69	1039
Thrashing-machine concave and feed-board	D. W. Broatch	520,725	May 29	3100	750	67	1172
Thrashing-machine dust-conveyer	M. L. Shuster	531,220	Dec. 18	2121	508	69	1631
Thrashing-machine feed and band-cntting attach- ment. }	M. Schlatter	521,674	June 19	1637	383 384	67	1527
Thrashing-machine feeder	C. M. Tanquary	519,029	May 1	146	35, 36	67	564
Thrashing-machine. Field	A. Anderson	531,085	Dec. 18	1755	418 419	69	1564
Thrashing-machine grain carrier and regulator	A. G. Green	522,011	June 26	2261	542	67	1659
Thrashing-machine grain-elevator	J. R. Harrison	520,185	May 22	2196	534	67	988
Thrashing-machine. Pea	C. E. Paterson	526,669	Oct. 2	333	82	69	63
Thrashing-machine portable wind-brake	C. Zimmerman	516,560	Mar. 13	1371	326	66	1723
Thrashing-machine self-feeder	R. L. Dennison	517,845	Apr. 10	708	179	67	152
Thrashing-machines. Self-feeder for	A. W. Severance, G. Jamison, and G. W. Brancht.	530,246	Dec. 4	300	75	69	1270
Thrashing-machine self-feeder and band-cntter	W. F. Hall	523,399	July 24	2115	531 532	68	444
Thrashing-machine self-feeder and band-cntter	D. Harper	523,279	July 17	1914	481	68	390
Thrashing-machine teeth. Wrench and straightener for	E. W. Oakley	518,328	Apr. 17	1537	383	67	313
Thrashing-machines. Automatic feeder for	R. L. Cooley	522,451	July 3	480	122	68	96
Thrashing-machines. Shoe attachment for	G. F. Conner	530,090	Dec. 4	25	7	69	1219
Thread-cabinet	H. T. Luster	514,947	Feb. 20	1605	403	66	1189
Thread-cabinet	H. T. Luster	514,948	Feb. 20	1607	404	66	1189
Thread-cutter	J. R. Weir	514,529	Feb. 13	923	234	66	1044
Thread-cutter tool-holder	C. R. Behnke	521,255	June 12	894	211	67	1372
Thread-cutting ring	H. F. Gannon	530,332	Dec. 4	453	113	69	1296
Thread holder and cntter	D. R. Porter	515,790	Mar. 6	102	24	66	1473
Thread-package	B. L. Armstrong	523,139	July 17	1672	418	68	347
Thread-tension. Wheel for	S. W. Wardwell, Jr.	531,082	Dec. 18	1751	417	69	1564
Thread-unwinding apparatus	M. V. Palmer	515,160	Feb. 20	1945	486	66	1251
Three-position signal	H. Johnson	514,191	Feb. 6	360	86	66	921
Ticket and holder. Railway	A. H. Pugh and D. B. Martin ..	528,130	Oct. 23	2455	594	69	496
Ticket and time-table holder	F. D. Atherton	513,749	Jan. 30	3375	832	66	768
Ticket-canceling apparatus	H. C. Sergeant	528,696	Nov. 6	313	76	69	703
Ticket-case	T. Ratcliff	527,508	Oct. 16	1370	333 334	69	283
Ticket-holder	J. M. Akers	527,644	Oct. 16	1590	381	69	324
Ticket-holder	L. J. Blades	529,696	Nov. 27	2093	501	69	1077
Ticket. Railway	F. M. Shattuc	513,151	Jan. 23	2373	573	66	546
Ticket. Railway	F. M. Shattuc	513,538	Jan. 30	3026	746	66	705
Ticket. Railway mileage	T. F. Harrington	512,878	Jan. 16	1949	462	66	396
Ticket. Railway transfer	G. Truesdell	512,414	Jan. 9	1141	277	66	227
Tickets. Machine for making pin	T. Moore	525,351	Sept. 4	47	12 13 14	68	1160
Ticketing-machine	R. F. Livermore	529,502	Nov. 20	1776	424	69	1008
Tie: See Bag or fodder tie. Railway-tie. Bale-tie. Railway cross-tie. Bale or bundle tie. Umbrella-tie. Metallic tie. Wall-tie.							
Tie-joint	W. Livingstone	520,281	Dec. 4	367	90	69	1282
Tie-plate	S. F. Clark	529,854	Nov. 27	2364	565	69	1126
Tie-plate	H. W. Foote	512,180	Jan. 2	748	182	66	143
Tie-plate and rail-brace. Combined	T. R. Gabel	530,175	Dec. 4	162	42	69	1244
Tie-plate. Extension	W. R. Funk	530,409	Dec. 4	580	144	69	1321
Tie and constructing same. Illuminating	P. M. Bruner	517,156	Mar. 27	2388	564	65	1948
Tie	G. W. Morrow	527,871	Oct. 23	1977	475	69	410
Tie construction for wooden buildings. Fireproof ..	J. A. Flint	525,097	Ang. 28	1965	480	65	1064
Tie dressing and finishing machine	J. Rapp	513,140	Jan. 23	2354	568 569	66	542
Tie floor, wall, &c	F. Furness	527,961	Oct. 23	2153	517 518	69	443
Tie for floor and ceiling construction	J. Seipel	522,169	June 26	2518	805	67	1708
Tie. Illuminating	C. W. Mark	526,244	Sept. 18	1605	376	68	1469
Tie. Illuminating	J. W. Mark	526,245	Sept. 18	1606	376	68	1469
Tie. Illuminating	J. W. Mark	528,004	Oct. 23	2239	541	69	458
Tie-machine	J. Adamson	517,510	Apr. 3	156	34	67	32
Tie-machine	W. H. Pride	519,773	May 15	1481	359	67	842
Tie or brick cntting machine	J. Bensing	524,302	Ang. 14	568	135	68	784
Tie-placing device	T. C. Cook	517,329	Mar. 27	2674	627	66	2004
Tie-presses. Automatic valve-gear for	H. E. Banker	521,944	June 26	2122	509	67	1636
Tie. Roof	N. Monshausen	516,570	Mar. 13	1386	330	66	1727
Tie. Roof scale	W. Ludowici	513,430	Jan. 23	2804	687	66	630
Tie-roofing	G. H. Babcock	517,832	Apr. 10	687	171 172	67	148
Tie. Roofing	S. K. Cohen	522,879	July 10	1193	297 298	68	242
Tie. Roofing	J. E. Donaldson and J. Athern ..	522,686	July 10	873	216	68	184
Tie. Roofing	A. Kayser	523,353	July 24	2043	513	68	431
Tie. Roofing	C. Lesmeister	527,431	Oct. 16	1243	305	69	258
Tie. Roofing	H. Niederlaender	530,119	Dec. 4	77	21	69	1229
Tie. Roofing	J. Veen and F. A. Dornberg ..	518,294	Apr. 17	1478	369	67	303

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Tile-truck.....	J. W. Bienz.....	527,653	Oct. 16	1604	387	69	326
Tiles, Laying.....	M. C. Flannery.....	512,579	Jan. 9	1408	340	66	278
Till lock and alarm.....	C. H. Morford.....	522,692	July 10	822	218	68	186
Timber compressing and curing machine.....	H. L. Du Bois.....	514,847	Feb. 13	1455	366	66	1146
Timber-handling appliance.....	G. H. Spencer.....	516,234	Mar. 13	820	192	66	1621
Timber-preserving apparatus.....	W. G. Curtis and J. D. Isaacs.....	516,730	Mar. 20	1669	395	66	1794
Time-alarm.....	C. O. Major.....	524,026	Aug. 7	97	21	68	680
Time-alarm. Electric.....	J. C. Betts.....	515,189	Feb. 20	1987	495	66	1258
Time-alarm. Electric.....	H. P. Sommer.....	518,971	May 1	56	14	67	546
Time-ball.....	W. F. Gardner.....	520,879	June 5	223	50	67	1238
Time-check receiver.....	A. J. Henry.....	520,848	June 5	171	37	67	1228
Time-check receiver.....	G. R. and B. W. Shepardson.....	529,468	Nov. 20	1713	408 409	69	998
Time-detector. Watchman's.....	J. Matusch.....	522,911	July 10	1258	311	68	254
Time-interval clamp or brake. Electrical limiting.....	A. W. Dow and T. R. Griffith.....	512,687	Jan. 16	1591	382 383	66	328
Time-lock.....	F. H. Blake.....	526,555	Sept. 25	2146	514	68	1583
Time-lock.....	A. Kirks.....	520,144	May 22	2121	518	67	974
Time-lock.....	E. S. Phelps.....	520,332	May 22	2434	592 593	67	1033
Time-lock for money-drawers.....	J. Totten.....	531,346	Dec. 25	2242	535	69	1669
Timepiece-escapement.....	J. W. Nunamaker.....	512,054	Jan. 2	537	127	66	103
Timepiece. Repeating.....	C. Hahlweg.....	525,321	Aug. 28	2332	564	68	1132
Timepiece striking mechanism.....	J. W. Dorri, Sr.....	525,978	Sept. 11	1145	260	68	1372
Timepiece winding mechanism.....	H. Schumacher.....	524,671	Aug. 14	1203	294 295	68	899
Time-recorder. Electric.....	H. T. Johnson.....	524,386	Aug. 14	736	178	68	813
Time-recorder. Employé's.....	G. W. Heene.....	530,340	Dec. 4	468	117 118 289	69	1299
Time-recorder. Employé's.....	J. S. Morse and D. R. Lovejoy.....	527,395	Oct. 9	1180	290	69	234
Time-recorder. Employé's.....	N. M. Watson.....	515,805	Mar. 6	123	29, 30	66	1476
Time-recorder. Watchman's.....	A. Newman.....	530,446	Dec. 4	636	158 159	69	1332
Time-recorder. Workman's.....	F. H. Bolte and E. D. King.....	512,499	Jan. 9	1296	311 312	66	256
Time-recorder. Workman's.....	D. M. Cooper.....	528,223	Oct. 30	2615	630 631 262	69	541
Time-recorder. Workman's.....	J. Dey.....	522,784	July 10	1064	263 264	68	216
Time-recorder. Workman's.....	D. Hepp.....	520,310	May 22	2398	582 583	67	1026
Time-recorder. Workman's.....	J. Dey.....	524,102	Aug. 7	223	52, 53	68	702
Time-recorder. Workman's.....	D. Miller.....	522,738	July 10	975	243	68	201
Time-recorder. Workman's.....	E. G. Watkins.....	527,304	Oct. 9	1051	250	69	205
Time-sheet holder and guide. Combined.....	F. Clemens, Jr.....	522,195	July 3	15	4, 5	68	5
Tin boxes. Machine for expanding.....	T. S. Edgar and C. E. Williams.....	517,738	Apr. 3	546	131 132	67	106
Tin can.....	C. A. Wedholm.....	514,668	Feb. 13	1158	288	66	1089
Tin from tin-plate scrap. Removing.....	H. L. Hollis.....	511,774	Jan. 2	51	13	66	13
Tin from tin-scrap, &c. Removing.....	T. G. Hunter.....	511,846	Jan. 2	157	40	66	33
Tin-plate cleaning and polishing machine.....	G. J. Record.....	523,485	July 24	2220	573	68	471
Tin-plating machine.....	C. R. Britton.....	518,342	Apr. 17	1564	388 389	67	318
Tins, &c. Holder for.....	H. R. Saunders.....	515,369	Feb. 27	2311	573	66	1331
Tinner's shears.....	A. P. Darone.....	522,108	June 26	2413	579	67	1687
Tinning iron castings.....	A. Schaag.....	525,471	Sept. 4	261		68	1199
Tinning-machine.....	J. Hirschmann.....	520,428	May 29	2598	628 629	67	1080
Tire.....	C. Kehr.....	517,417	Mar. 27	2258	669	66	2040
Tire.....	C. Kehr.....	517,418	Mar. 27	2-59	669	66	2040
Tire and rim for wheels. Flexible.....	S. Elliott.....	527,721	Oct. 23	1820	438	69	383
Tire and rim for wheels. Pneumatic.....	J. W. Smallman.....	521,482	June 19	1316	306 307	67	1468
Tire and wheel-rim. Pneumatic.....	P. W. Tillinghast.....	528,451	Oct. 30	3008	727	69	612
Tire. Bicycle.....	F. M. Ashley.....	531,608	Dec. 25	2698	647	69	1758
Tire. Bicycle.....	E. M. Ballantine.....	522,141	June 26	2476	593	67	1700
Tire. Bicycle.....	J. D. Beebe.....	524,272	Aug. 7	509	119	68	753
Tire. Bicycle.....	E. S. Frazier.....	529,120	Nov. 13	1069	258	69	861
Tire. Bicycle.....	E. Granert.....	518,691	Apr. 24	2168	543	67	442
Tire. Bicycle.....	E. Granert.....	529,261	Nov. 13	1326	319	69	906
Tire. Bicycle.....	A. Meyer.....	513,433	Jan. 23	2809	688	66	630
Tire. Bicycle.....	R. P. Scott.....	521,273	June 12	921	218	67	1377
Tire. Bicycle.....	J. J. C. Smith.....	519,438	May 8	905	218	67	726
Tire. Bicycle.....	C. J. Spofford.....	519,976	May 15	1813	444	67	904
Tire. Bicycle.....	E. R. Thatcher.....	525,475	Sept. 4	266	65	68	1201
Tire. Bicycle.....	G. F. Washburn.....	516,669	Mar. 20	1562	371	66	1776
Tire. Bicycle.....	F. Wiechard.....	511,827	Jan. 2	123	30	66	27
Tire-bolt wrench.....	J. E. Campbell.....	522,104	June 26	2406	578	67	1686
Tire-casings. Mold for forming.....	J. G. Mooney and C. Whitehead.....	530,195	Dec. 4	2909	52	69	1253
Tire. Cycle or other wheel.....	A. J. J. Lindner and M. Adler.....	516,313	Mar. 13	940	221	66	1645
Tire. Cycle-wheel.....	J. T. Poplawsky.....	516,833	Mar. 20	1824	432	66	1824
Tire. Elastic.....	J. v. Kemény.....	513,643	Jan. 30	3200	784	66	747
Tire. Elastic metallic.....	G. Walzel.....	523,495	July 24	2301	579	68	475
Tire fabric. Bicycle.....	G. C. Moore.....	521,805	June 26	1874	448	67	1567
Tire for bicycles. Pneumatic.....	A. J. Burns.....	511,999	Jan. 2	450	107	66	86
Tire for bicycles. Pneumatic.....	A. C. Davidson.....	531,436	Dec. 25	2391	572	69	1699
Tire-forging apparatus.....	I. Hogeland.....	518,815	Apr. 24	2395	592	67	481
Tire-heater.....	J. A. Callaway.....	521,928	June 26	2093	502 503	67	1629
Tire-heater.....	J. Liefbroer and J. Tendollen.....	526,977	Oct. 2	502	123	69	94
Tire-heater.....	C. Robinson.....	527,541	Oct. 16	1423	346	69	293
Tire heater. Wagon.....	I. Harvey.....	530,521	Dec. 11	802	198	69	1378

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Tire-marker	O. F. Farwell	519,249	May 1	563	137	67	646
Tire. Pneumatic	C. L. Ames	517,414	Mar. 27	2855	668	66	2040
Tire. Pneumatic	R. S. Anderson	523,031	July 17	1481	369	68	311
Tire. Pneumatic	W. R. Barrett	513,863	Jan. 30	3554	875	66	804
Tire. Pneumatic	A. J. Burns	521,330	June 12	1025	241	67	1396
Tire. Pneumatic	W. S. Callaghan	514,412	Feb. 6	723	184	66	990
Tire. Pneumatic	G. H. Chinnoek	512,243	Jan. 2	847	205	66	160
Tire. Pneumatic	H. J. Doughty	524,105	Aug. 7	230	54	68	704
Tire. Pneumatic	J. B., Sr., and J. B. Dunlop, Jr.	523,270	July 17	1900	478	68	328
Tire. Pneumatic	J. J. Fox	515,908	Mar. 6	275	65	66	1505
Tire. Pneumatic	J. N. Goldbacher	526,185	Sept. 18	1498	351	68	1448
Tire. Pneumatic	E. M. Graham	511,771	Jan. 2	46	12	66	12
Tire. Pneumatic	D. M. Hawes	526,572	Sept. 25	2175	520	68	1588
Tire. Pneumatic	R. Hoffman	520,643	May 29	2951	714	67	1145
Tire. Pneumatic	L. Holt	513,639	Jan. 30	3194	783	66	735
Tire. Pneumatic	W. P. Jaus	522,663	July 10	834	208	68	177
Tire. Pneumatic	T. B. Jeffery	523,282	July 17	1918	482	68	391
Tire. Pneumatic	T. B. Jeffery	523,283	July 17	1919	483	68	391
Tire. Pneumatic	E. J. Jenness	529,736	Nov. 27	2160	515	69	1068
Tire. Pneumatic	O. Lindner	512,727	Jan. 16	1649	396	66	339
Tire. Pneumatic	G. N. Monro, Jr.	517,584	Apr. 3	273	63	67	54
Tire. Pneumatic	J. G. Moomy	513,617	Jan. 30	3154	774	66	728
Tire. Pneumatic	J. G. Moomy	516,830	Mar. 20	1817	431	66	1823
Tire. Pneumatic	J. G. Moomy	518,849	Apr. 24	2440	604	67	499
Tire. Pneumatic	J. G. Moomy	518,850	Apr. 24	2442	605	67	499
Tire. Pneumatic	G. C. Moore	523,365	July 24	2060	518	68	434
Tire. Pneumatic	J. H. Pierce and A. J. Dickson	520,536	May 29	2777	672	67	1112
Tire. Pneumatic	C. H. Roth	531,335	Dec. 25	2220	531	69	1665
Tire. Pneumatic	J. E. Sénéchal	527,130	Oct. 9	745	183	69	153
Tire. Pneumatic	C. B. Sheldon	530,803	Dec. 11	1275	308	69	1463
Tire. Pneumatic	D. P. Sims	515,134	Feb. 20	1899	477	66	1242
Tire. Pneumatic	D. H. Smith	512,491	Jan. 9	1286	309	66	255
Tire. Pneumatic	G. F. Stillman	528,213	Oct. 30	2602	627	69	539
Tire. Pneumatic	P. W. Tillinghast and F. Mallalien	521,740	June 19	1749	415	67	1549
Tire. Pneumatic	R. E. Tollner and C. N. Potter	517,312	Mar. 27	2647	622	66	1998
Tire. Pneumatic	F. A. Wegner	514,796	Feb. 13	1370	345	66	1130
Tire. Pneumatic	C. K. Welch	512,594	Jan. 9	1434	345	66	282
Tire. Pneumatic	C. K. Welch	522,814	July 10	1109	274	68	225
Tire. Pneumatic	C. K. Welch	526,882	Oct. 2	353	87	69	66
Tire. Pneumatic	E. W. Young	527,097	Oct. 9	684	168	69	143
Tire. Pneumatic bicycle	P. Krumscheid	524,280	Aug. 7	523	123	68	756
Tire. Pneumatic bicycle	J. Mariani	522,689	July 10	879	217	68	185
Tire. Pneumatic wheel	T. A. Egan	518,229	Apr. 17	1373	344	67	284
Tire. Pneumatic wheel	E. H. Seddon	523,947	July 31	3106	773	68	642
Tire protector. Pneumatic	A. S. Davy	517,033	Mar. 27	2174	515	66	1906
Tire repainer. Pneumatic	C. E. Buckbee	515,284	Feb. 20	2153	535	66	1290
Tire-riveting machine. Wheel	W. P. Bettendorf	512,356	Jan. 9	1032	253	66	207
Tire. Rubber	W. Langmuir	511,850	Jan. 2	165	41	66	35
Tire. Rubber	J. C. Tallman	527,820	Oct. 23	1879	451	69	393
Tire. Rubber	C. K. Welch	522,138	June 26	2466	592	67	1698
Tire-setter	I. Lehman	512,560	Jan. 9	1379	333	66	273
Tire-setting machine	J. B. West	520,817	June 5	109	24	67	1216
Tire-setting machine	J. B. West	524,269	Aug. 7	502	116	68	752
Tire shield. Pneumatic	S. M. Schindel	521,005	June 5	454	103	67	1279
Tire shield. Pneumatic	S. M. Schindel	521,006	June 5	456	108	67	1279
Tire shrinking or upsetting device	O. T. Lytten	529,740	Nov. 27	2166	516	69	1089
Tire. Steel-spring	J. S. Eddy	530,888	Dec. 11	1409	335	69	1487
Tire-tightener	I. L. Carman	517,813	Apr. 3	662	165	67	128
Tire-tightener	E. W. Hays and E. A. Thuston	522,162	June 26	2509	602	67	1706
Tire-tightener	W. T. Mackey	521,661	June 19	1618	379	67	1522
Tire-tightener	T. Rodwell	531,064	Dec. 18	1715	407	69	1558
Tire-tightener	J. Tripp	513,159	Jan. 23	2384	576	66	548
Tire upsetting or shrinking machine	J. R. Little	523,228	July 17	1927	484	68	393
Tire valve. Pneumatic	M. Bridges	529,588	Nov. 20	1923	458	69	1036
Tire. Vehicle-wheel	G. S. Webb	519,748	May 15	1437	347	67	833
Tire. Wheel	C. L. Ames	517,415	Mar. 27	2856	669	66	2040
Tire. Wheel	H. M. Devoe	519,177	May 1	427	105	67	620
Tire. Wheel	E. Grenet	516,201	Mar. 13	766	179	66	1612
Tire. Wheel	T. B. Jeffery	523,314	July 17	1977	497	68	403
Tire. Wheel	R. M. Keating	525,081	Aug. 28	1932	473	68	1059
Tire. Wheel	C. Kebr	517,416	Mar. 27	2857	669	66	2040
Tire. Wheel	C. F. Lavender	516,790	Mar. 20	1752	413	66	1809
Tire. Wheel	J. Lones, C. Vernon, and E. Holden	515,596	Feb. 27	2670	663	66	1400
Tire. Wheel	O. Seely	520,901	June 5	268	64	67	1246
Tires. Armor for pneumatic	S. M. Schindel	526,846	Oct. 2	288	70	69	55
Tires. Device for inflating pneumatic	R. H. Rice	523,443	July 24	2194	552	68	457
Tires. Device for repairing pneumatic	P. W. Tillinghast	516,691	Mar. 20	1594	380	66	1782
Tires, &c. Hand-pump for inflating	J. Dickens	517,736	Apr. 3	542	131	67	105
Tires. Inflating-pump for inflating pneumatic	L. Holt	515,474	Feb. 27	2479	613	66	1362
Tires. Machine for making shoes or covers for pneumatic	G. C. Moore	518,112	Apr. 10	1159	291	67	228
Tires. Making bicycle	A. B. Shaw	529,142	Nov. 13	1112	269	69	869
Tires. Making joints in pneumatic	C. E. W. Woodward	528,056	Oct. 23	2318	559	69	473
Tires. Manufacturing casings or sheaths for pneumatic	G. Knadler	525,711	Sept. 11	681	158	68	1289
Tires. Puncture-proof band for pneumatic	S. Lee	518,583	Jan. 30	3099	762	66	719
Tires to wheel-rims. Means for securing pneumatic	P. Davies	517,113	Mar. 27	2319	546	66	1935
Tires to wheels. Device for attaching pneumatic	L. H. Brunemeyer	519,695	May 15	1361	329	67	820

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Tires to wheels. Device for fixing pneumatic	E. J. Vauzelle	519,165	May 1	404	97	67	615
Tires. Valve for pneumatic	J. F. Palmer	512,518	Jan. 9	1322	319	66	261
Toaster or broiler	J. A. Miller	523,127	July 17	1654	413	68	343
Tobacco and snuff receptacle	C. P. Geritz and F. H. C. Stamm	523,632	July 24	2521	632	68	517
Tobacco-booking table	H. Zwicker	513,605	Jan. 30	3135	770	66	725
Tobacco-box	C. E. Speaker	514,512	Feb. 13	897	228	66	1040
Tobacco-box-clamping machine	J. H. Kester	512,973	Jan. 16	2109	501	66	425
Tobacco-casing machine	D. K. Fraley	523,910	July 31	3025	752	68	625
Tobacco-casing machines. Spraying device for	J. C. Frost	519,425	May 8	867	214	67	722
Tobacco. Cooling-channel for ordering	S. P. Mayo	520,441	May 29	2618	634	67	1084
Tobacco-cutter	D. B. Conway	511,753	Jan. 2	21	6	66	7
Tobacco-cutter	J. Hellings	528,540	Nov. 6	28	8	69	651
Tobacco-cutter	R. T. Stedman	518,867	Apr. 24	2465	611	67	494
Tobacco-cutter	G. K. Walker	524,622	Aug. 14	1129	277	68	886
Tobacco. Device for sprinkling casing material upon	C. L. Marburg	519,191	May 1	450	110	67	624
Tobacco dressing and feeding machine	J. E. Bucklin	531,259	Dec. 18	2081	497 498 499	69	1623
Tobacco-drying apparatus	W. W. and C. M. Knott	514,370	Feb. 6	666	168 169	66	978
Tobacco. Fermenting or curing	E. Suchsland	516,778	Mar. 20	1735	66	1804	
Tobacco-fillers. Machine for treating heavily-sweetened	T. W. Helm	525,598	Sept. 11	1017	229	68	1349
Tobacco-hands in cases or casks. Device for packing	D. W. Gray	529,069	Nov. 13	990	235	69	845
Tobacco-jar	M. Goldwater	516,303	Mar. 13	926	217	66	1642
Tobacco-knife	H. D. Bourland	513,077	Jan. 23	2252	543	66	521
Tobacco. Machine for attaching tags to	D. J. Burr	526,376	Sept. 25	1843	438	68	1529
Tobacco. Machine for making and affixing tags to	D. J. Burr	526,375	Sept. 25	1840	437 438	68	1528
Tobacco. Machine for making plug-	J. F. Wooldrige	511,832	Jan. 2	135	34.35	66	29
Tobacco. Machine for preparing and casing	C. L. Marburg	519,637	May 8	1263	304	67	788
Tobacco. Manufacture of plug-	W. W. Wood	513,550	Jan. 30	3043	749	66	709
Tobacco-moistening device	C. N. Swift	524,700	Nov. 6	318	78	69	704
Tobacco or cigar moistener	J. A. Robinson	527,291	Oct. 9	1010	245	69	202
Tobacco-ordering apparatus. Moistening-chamber for	G. A. and C. A. Peple	517,835	Apr. 3	676	168	67	131
Tobacco-pipe	E. Barron	522,777	July 10	1054	260	68	214
Tobacco-pipe	E. G. Deloe	517,332	Mar. 27	2678	628	66	2005
Tobacco-pipe	W. Denuth	521,404	June 12	1157	274	67	1423
Tobacco-pipe	O. M. Jonasson	520,599	May 29	2284	698	67	1133
Tobacco-pipe	N. Macphail	521,320	June 12	1120	264	67	1416
Tobacco-pipe	J. F. Mallinekrodt	525,465	Sept. 4	253	62	68	1198
Tobacco-pipe	W. Nax	523,861	July 31	2943	734	68	610
Tobacco-pipe	C. Peterson	519,135	May 1	346	82	67	604
Tobacco-pipe	A. J. Pugh	519,641	May 8	1274	306	67	790
Tobacco-pipe	W. E. Trotter	527,186	Oct. 9	829	201	69	169
Tobacco-pipe bowls. Cover for	T. Morton	521,173	June 12	752	176	67	1347
Tobacco-pipe cover	A. A. Percy	521,864	June 26	1966	475	67	1605
Tobacco-pouch	R. Heywood and J. H. Nunn	527,202	Oct. 9	853	207 208	69	174
Tobacco-shelf	J. M. Hodgins	516,533	Mar. 13	1326	316	66	1715
Tobacco stripping or stemming machine	S. Reid	527,855	Oct. 23	2007	481 482	69	415
Tobacco-tagging machine	D. J. Burr	526,374	Sept. 25	1836	436 437 438	68	1528
Tobacco-tying machine	R. Tell	521,189	June 12	774	181 182	67	1350
Tobacco-wrapper	J. Conley	526,517	Sept. 25	2094	499	68	1574
Toboggan. Roller	C. N. Grant	513,570	Jan. 30	3079	757 758	66	715
Toboggan. Roller	C. N. Grant	528,224	Oct. 30	2619	631	69	542
Toboggan-slide	E. J. Morris	522,025	June 26	2273	546	67	1662
Toboggan-slide	L. A. Thompson	520,248	May 22	2302	559	67	1008
Toboggan-slide. Reversible	T. M. Richards	512,326	Jan. 9	982	241	66	198
Toe-tip-applying machine	W. H. Leighton	514,424	Feb. 6	738	188	66	993
Toe-weight	L. E. Campbell	520,352	May 22	2477	600	67	1041
Toe-weight	W. N. Carlisle	518,206	Apr. 10	1329	332	67	260
Toe-weight	C. W. Crannell	513,005	Jan. 16	2157	513	66	433
Toe-weight	J. D. Keller	518,998	May 1	98	24	67	554
Toe-weight	W. H. Measures	530,545	Dec. 11	846	208	69	1386
Toe-weight	E. G. Miles	517,583	Apr. 3	272	62	67	53
Toe-weight. Divisible	J. Clark	522,288	July 3	193	53	68	40
Toes and counters. Blank for box	J. W. Packard	516,532	Mar. 20	1823	431	66	1824
Toggle-arm joint	W. W. Wallace	513,544	Jan. 30	3033	747 748	66	707
Toggle-press	W. E. Brock	517,092	Mar. 27	2287	539	66	1928
Toggle-press. Double-acting	A. C. Campbell	519,174	May 1	423	102 103 104	67	619
Toilet articles, calendars, &c. Holder for	W. M. English and F. E. Gladwin	514,182	Feb. 6	341	82	66	918
Toilet sets. Supporting-frame for	N. O. Bond	515,949	Mar. 6	338	81	66	1516
Tombs. Mold for concrete burial	W. W. Reeves	519,689	May 8	1350	326	67	804
Tongs	G. D. Bulmer	529,516	Nov. 20	1805	429	69	1013
Tongs	W. Lott	531,126	Dec. 18	1832	435	69	1579
Tongs	F. Raymond	530,455	Dec. 4	650	162	69	1334
Tongs, &c. Adjustable	Z. S. and M. C. Randleman	519,774	May 15	1482	359	67	842
Tongs and shovel. Combined	W. N. Crouch	513,891	Jan. 30	3597	886	66	813
Tongs for handling metal	C. J. Bagley and L. Roberts	527,648	Oct. 16	1598	366	69	325
Tongs. Pipe	W. King	514,936	Feb. 20	1590	399	66	1186
Tongue-support	J. W. Brenner	515,320	Feb. 27	2231	552	66	1316
Tongue-support	L. Even and J. T. Crowe	524,822	Aug. 21	1466	357	68	960
Tongue-support	J. W. Lindquist	515,476	Feb. 27	2481	614	66	1363
Tongue-support	G. H. Mills	518,744	Apr. 24	2278	566	67	460
Tongue-support	W. B. Riling	512,902	Jan. 16	1985	471	66	403

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Tongue-support.....	A. B. Rose and J. H. Kelley.....	520,339	May 22	2456	596	67	1037
Tongue-support.....	T. N. Savago.....	515,060	Feb. 20	1784	450	66	1220
Tongue-support.....	D. Ward.....	524,292	Aug. 7	550	131	68	760
Tongue-support for sleighs.....	E. W. Anderson.....	529,351	Nov. 20	1481	356	69	957
Tongue support. Wagon.....	S. O. Eells.....	513,900	Jan. 30	3608	889	68	815
Tongue-switch.....	A. J. Moxham.....	520,694	May 29	3053	740	67	1163
Tongue-switch.....	H. O'Shea.....	530,201	Dec. 4	218	55	69	1255
Tongue. Vehicle.....	T. F. Bower.....	529,106	Nov. 13	1050	253	69	857
Tongue. Vehicle.....	A. B. McKay.....	515,407	Feb. 27	2372	588	66	1342
Tongues and grooves in ends of flooring-boards. Machine for forming interfitting.....	J. P. Burnham.....	517,326	Mar. 27	2671	627	66	2003
Tonguing and grooving ends of flooring-boards. Machine for.....	J. P. Burnham.....	517,327	Mar. 27	2672	627	66	2003
Tonnage-computer.....	G. C. Warren.....	528,703	Nov. 6	321	79	69	704
Tool-box.....	W. Q. Potts.....	513,726	Jan. 30	3346	825	66	763
Tool-clamping device.....	H. S. Buckland.....	526,293	Sept. 18	1682	397	68	1483
Tool. Combination.....	G. J. Capewell.....	519,033	May 1	154	36, 37	67	566
Tool. Combination.....	E. Cavanaugh.....	523,850	July 31	2930	730	68	608
Tool. Combination.....	R. L. Davis.....	514,308	Feb. 6	580	144	66	962
Tool. Combination.....	T. Harris.....	519,574	May 8	1156	278 279	67	769
Tool. Combination.....	S. J. Johnston.....	530,419	Dec. 4	596	148 149	69	1324
Tool. Combination.....	C. A. Salzman.....	529,962	Nov. 27	2544	613	69	1159
Tool. Combination.....	H. W. Smith.....	515,799	Mar. 6	115	27	66	1475
Tool. Combination.....	F. E. Snyder.....	518,283	Apr. 17	1459	365	67	390
Tool. Combination.....	C. C. Trout.....	513,742	Jan. 30	3306	830	66	767
Tool for carriages. Combination.....	J. A. Riordan.....	519,550	May 8	1114	267	67	762
Tool for handling small metallic articles.....	J. T. Keyes.....	512,581	Jan. 9	1076	262	66	215
Tool-handle.....	W. J. Johnson.....	518,106	Apr. 10	1152	229	67	226
Tool-handle.....	J. Johnstone.....	512,971	Jan. 16	2105	500	66	423
Tool-handle.....	J. W. S. Neal.....	522,181	June 26	2537	609	67	1712
Tool-handle.....	L. H. Schmitt.....	522,031	June 26	2289	548	67	1664
Tool-handle. Combination.....	W. J. Morrison.....	528,731	Nov. 6	360	88	69	712
Tool-holder.....	H. E. Britton.....	516,294	Mar. 13	908	214	66	1639
Tool-holder.....	F. A. Pratt.....	517,167	Mar. 27	2410	568	66	1952
Tool-holder.....	H. Shogren.....	512,911	Jan. 16	2002	474	66	406
Tool-holder.....	J. E. Smith.....	521,965	June 26	2168	520	67	1643
Tool or hatchet. Combination.....	C. A. Ketchum.....	513,463	Jan. 23	2879	708	66	643
Tool or implement holder.....	L. M. Burbank.....	515,817	Mar. 6	143	35	66	1479
Tool-securing device.....	H. S. Buckland.....	526,290	Sept. 18	1678	396	68	1482
Tool-securing device.....	H. S. Buckland.....	526,291	Sept. 18	1679	396	68	1483
Tool. Universal.....	H. Mork.....	515,498	Feb. 27	2511	622	66	1369
Tools. Machine for manufacturing relieved-formed revolving.....	J. G. Reinecker.....	519,820	May 15	1558	381	67	857
Tooth. Artificial.....	E. Bowlus.....	522,400	July 3	393	101	68	78
Tooth. Artificial.....	H. B. Harrell.....	515,400	Feb. 27	2363	586	66	1341
Tooth. Artificial.....	E. H. Neiman and S. E. Beecher.....	513,818	Jan. 30	3476	856	66	788
Tooth. Artificial.....	C. F. Rutterford.....	516,120	Mar. 6	616	144	66	1568
Tooth-crown. Artificial.....	C. C. Beebe.....	512,856	Jan. 16	1915	452	66	389
Tooth-crown. Artificial.....	J. R. Phelps.....	512,841	Jan. 16	1875	444	66	382
Tooth-crowns. Forming.....	J. G. Hollingsworth.....	523,472	July 24	2260	568	68	467
Tooth or bone cutter.....	H. Walter.....	512,461	Jan. 9	1233	298	66	245
Toothpick.....	C. C. Southwell.....	516,409	Mar. 13	1108	263	66	1675
Toothpick-cutting machine.....	J. Powers.....	517,625	Apr. 3	342	81	67	67
Toothpick-machine.....	W. F. Hutchinson.....	523,575	July 24	2425	609	68	499
Toothpick-machine.....	C. F. Scamman.....	521,734	June 19	1740	413	67	1547
Toothpicks. Apparatus for handling and packing.....	C. F. Scamman.....	521,736	June 19	1743	414	67	1547
Toothpicks. Apparatus for handling and packing.....	C. F. Scamman and H. P. Churchill.....	521,735	June 19	1741	413	67	1547
Tooth-powder box.....	W. A. Spalding.....	512,065	Jan. 2	562	133	66	107
Tooth-regulator.....	E. H. Angle.....	523,192	July 17	1772	444	68	364
Top.....	J. U. Barr, Jr.....	521,148	June 12	702	164	67	1337
Top.....	H. R. T. Coffin.....	523,513	July 24	2330	586	68	480
Top.....	W. A. Dunlap.....	526,305	Sept. 18	1711	403	68	1490
Top. Solar.....	J. Adams.....	523,316	July 17	1980	497	68	403
Top. Spinning.....	C. Diem.....	524,581	Aug. 14	1053	260	68	871
Top. Spinning.....	G. H. Hyne.....	514,995	Feb. 20	1677	420	66	1202
Top. Spinning.....	D. W. Long and H. H. Walsh.....	525,788	Sept. 11	813	185	68	1313
Torch.....	J. Sherry.....	529,631	Nov. 20	1984	473	69	1047
Torpedo-boat. Submarine.....	G. C. Baker.....	525,178	Aug. 28	2112	514	68	1090
Torpedo-boat. Submarine.....	G. C. Baker.....	525,179	Aug. 28	2113	514	68	1090
Torpedo-boat. Submarine.....	G. C. Baker.....	530,456	Dec. 4	670	166 167	69	1338
Torpedo-boat. Submarine.....	J. P. Holland.....	522,177	June 26	2531	607 608	67	1711
Torpedo-launching tube.....	J. B. G. A. Canet.....	514,810	Feb. 13	1388	349 350	66	1134
Torpedo-launching tube.....	E. W. Lloyd and C. W. Hutchinson.....	517,390	Mar. 27	2311	656	66	2031
Torpedo signal mechanism.....	T. H. Willson.....	516,322	Mar. 13	950	223 224	66	1647
Torpedo-wrapper.....	J. Cook.....	515,931	Mar. 6	310	74	66	1511
Torpedoes. Machine for placing track.....	S. Myers.....	523,542	July 24	2374	596	68	490
Torpedoes. Means for conducting, positioning, and exploding.....	J. Clark.....	513,983	Feb. 6	15	4	66	857
Towage. Canal.....	J. I. Morris.....	521,527	June 19	1396	323	67	1482
Towel-rack.....	S. T. Axtell.....	519,490	May 8	996	241	67	740
Tower. Observation.....	M. F. Smith.....	525,031	Aug. 28	1836	448	68	1043
Towing vehicles. Electrical device for.....	T. P. Milligan.....	518,673	Apr. 24	2142	535 536	67	437
Toy.....	E. Denis.....	519,838	May 15	1588	358	67	863
Toy.....	S. S. Eccleston.....	530,584	Dec. 11	916	224	69	1399
Toy.....	H. C. Fuller.....	514,620	Feb. 13	1079	269	66	1074
Toy.....	F. B. Harvey.....	530,769	Dec. 11	1226	297	69	1453
Toy.....	W. A. Hill.....	530,107	Dec. 4	54	15	69	1225

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Toy	W. H. Kline	517,926	Apr. 10	837	210	67	175
Toy	E. Lindner	517,616	Apr. 3	326	77	67	64
Toy	C. Miller	520,070	May 22	1977	484	67	948
Toy	J. A. Murphy	530,116	Dec. 4	71	20	69	1228
Toy	T. S. Thorn	530,138	Dec. 4	104	27	69	1234
Toy	J. Walker	530,142	Dec. 4	110	28	69	1235
Toy-balloon inflater	J. S. Moore	529,337	Nov. 13	1451	350	69	931
Toy bank	D. R. Reynolds	519,643	May 8	1276	306	67	790
Toy bank. Coin-controlled musical	H. W. Porter	523,277	Oct. 30	2712	654	69	560
Toy bank. Registering	A. W. Coffin	521,641	June 19	1587	{ 371 372 }	67	1516
Toy bowling-alley	T. Danquard	514,673	Feb. 13	1169	291	66	1091
Toy building-block	E. von Leistner	525,221	Aug. 28	2170	530	68	1101
Toy cannon	C. A. Bailey	525,306	Aug. 28	2298	{ 558 559 }	68	1127
Toy cannon	C. A. Bailey	525,307	Aug. 28	2299	559	68	1127
Toy cannon	C. M. Van Buren	524,772	Aug. 21	1379	336	68	944
Toy. Dancing	T. B. Thorndyke	512,589	Jan. 9	1427	344	66	281
Toy fence	W. J. and E. Phelps	513,137	Jan. 23	2350	567	66	541
Toy-holder	F. D. Arthur	521,253	June 12	888	210	67	1371
Toy. Knockdown	H. S. Kerr	518,067	Apr. 10	1089	275	67	215
Toy. Magic	R. Armstrong	513,450	Jan. 23	2852	699	66	638
Toy. Marble-shooting	E. M. Velsor	518,295	Apr. 17	1479	370	67	303
Toy microscope	F. W. Gardam	513,912	Jan. 30	3624	893	66	818
Toy money-box	R. Nicol, Jr.	528,018	Oct. 23	2260	545	69	461
Toy motor. Automatic	H. Hensel	515,956	Mar. 6	349	83	66	1518
Toy or doll house	E. M. Smith	513,688	Jan. 30	3275	806	66	750
Toy or puzzle	F. R. Cunningham and G. A. Hitchcock	527,522	Oct. 16	1396	339	69	287
Toy or trick device	A. D. Mountain	515,439	Feb. 27	2426	601	66	1353
Toy parachute	C. G. Tiefel	517,671	Apr. 3	438	105	67	84
Toy pistol	W. Duechting	518,987	May 1	82	21	67	551
Toy pistol	J. Good	518,882	Apr. 24	2492	618	67	499
Toy pistol	J. K. Medrick	513,193	Jan. 23	2435	589	66	557
Toy pistol	H. D. Medrick	527,701	Oct. 16	1686	406	69	341
Toy pistol	C. C. Smith and T. B. Stone	523,870	July 31	2960	737	68	614
Toy. Pneumatic	F. G. Stone	530,909	Dec. 11	1443	343	69	1494
Toy. Smoke-ring	J. T. Commoss	515,464	Feb. 27	2460	609	66	1359
Toy speller. Mechanical	C. P. Gifford	527,964	Oct. 23	2157	519	69	444
Toy track or course	D. C. B. Griffith	530,767	Dec. 11	1223	296	69	1452
Toy vehicle	M. Schaare	522,741	July 10	994	246	68	204
Toy velocipede	J. McFarlane	513,815	Jan. 30	3472	855	66	787
Toy. Wheeled	P. J. Hindmarsh	522,900	July 10	1238	307	68	250
Toy. Whistling	E. J. Lunley	522,264	July 3	161	43	68	32
Trace	G. S. Duffin	528,771	Nov. 6	441	{ 107 108 }	69	727
Trace-carrier	E. D. Melancon	524,722	Aug. 21	1297	317	68	929
Trace-carrier	C. C. Schwaner	530,356	Dec. 4	494	122	69	1304
Trace cutting and trimming machine	H. A. Dodge and W. T. Richards	519,570	May 8	1148	{ 276 277 }	67	768
Trace-fastener	B. F. Perry	514,770	Feb. 13	1327	331	66	1121
Trace-fastener	F. D. Stalford	523,780	July 31	2792	693	68	582
Trace-fastening	P. Brown	526,681	Oct. 2	18	5	69	6
Trace-hook	J. W. Himes	529,328	Nov. 13	1436	346	69	928
Trace-post. Spring	B. D. Druen	527,595	Oct. 16	1513	367	69	309
Trace trimmer and finisher	P. H. Schoonmaker	523,131	July 17	1661	416	68	345
Track apparatus. Overhead	J. F. Bork and J. Simandl	530,636	Dec. 11	1009	246	69	1414
Track-circuit	L. F. Johnson	521,412	June 12	1168	277	67	1425
Track-cleaner	J. W. Warren	516,714	Mar. 20	1632	388	66	1788
Track-cleaner and switch-thrower	I. W. Hewit	522,898	July 10	1234	306	68	250
Track-cleaning apparatus	R. L. Mason	513,403	Jan. 23	2772	677	66	623
Track-clearer	J. Olson	517,478	Apr. 3	105	23, 24	67	22
Track-clearer	O. Rothrock	523,595	July 24	2458	{ 616 617 }	68	505
Track-crossing	M. W. Iles	522,419	July 3	421	107	68	84
Track-drill	L. J. Crecelius	514,544	Feb. 13	946	{ 238 239 }	66	1049
Track-jack	J. McMurrin	529,935	Nov. 27	2487	600	69	1149
Track-laying machine	T. W. Paterson	529,830	Nov. 27	2319	{ 552 553 }	69	1118
Track. Overhead	J. H. Cook	513,306	Jan. 23	2623	636	66	595
Track-raiser	T. F. Steed	527,514	Oct. 16	1379	336	69	285
Track-sanding apparatus	H. L. Leach, Jr.	512,833	Jan. 16	1864	441	66	380
Track-sanding apparatus. Automatic	M. M. Dodd	518,715	Apr. 24	2225	554	67	451
Track-signal. Electric	C. R. Alsop	527,039	Oct. 9	688	169	69	144
Traction-engine	C. O. Heggem	529,490	Nov. 20	1751	417	69	1005
Traction-engine	C. Quast	521,988	June 26	2217	{ 533 534 }	67	1651
Traction-engine	P. A. N. Winand	525,829	Sept. 11	898	199	68	1326
Traction-wheel	H. Broom, A. Whiteley, and J. G. Hinckley	514,061	Feb. 6	132	31	66	879
Traction-wheel	S. Warner and O. E. Cook	521,687	June 19	1664	390	67	1531
Traction wheel. Bicycle or other	C. A. Ives	516,054	Mar. 6	522	122	66	1550
Train-brake. Automatic	F. B. Brock	513,872	Jan. 30	3563	878	66	807
Train-brake. Electrical	W. C. Fletcher	520,108	May 22	2039	{ 497 498 499 }	67	961
Train lighting and braking system. Electric	G. W. Swartz	517,498	Apr. 3	140	31	67	29
Train-operated device	J. H. Frischen and R. Pfeil	513,498	Jan. 30	2948	726	66	691
Train-robber alarm	M. Z. Levy	525,082	Aug. 28	1933	473	68	1060
Train-time indicator	W. M. Six	530,360	Dec. 4	506	125	69	1307
Training apparatus	S. B. Whitehead	529,947	Nov. 27	2608	626	69	1173
Training athletes. Apparatus for	M. L. Wendling	522,284	July 3	118	28	68	22
Trammel	W. H. Gates	522,053	June 26	2322	557	67	1670

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Tramway. Aerial.....	L. Johnson.....	523,895	July 31	2998	746	68	621
Tramway. Electric.....	H. Schwieger.....	530,286	Dec. 4	375	92, 93	69	1283
Tramway-switch.....	S. L. Cole.....	515,396	Feb. 27	2337	585	66	1340
Transformer.....	F. S. Hunting.....	514,933	Feb. 20	1587	398	66	1185
Transformers. Cooling.....	H. A. Rowland.....	513,421	Jan. 23	2793	684	66	627
Transformers. Cooling the iron of.....	H. A. Rowland.....	513,420	Jan. 23	2792	684	66	627
Transit-instruments over physical points. Device for centering.....	C. H. Brightly, H. M. Fuller, and E. A. Singer, Jr.....	515,815	Mar. 6	140	34	66	1479
Transit. Pocket.....	D. W. Brunton.....	526,021	Sept. 18	1216	250	63	1398
Transom-lifter.....	C. M. Burgess.....	512,275	Jan. 9	901	218	66	183
Transom-lifter.....	G. M. Garland.....	513,913	Jan. 30	3625	893	66	818
Transom-lifter.....	D. B. Hilton.....	512,028	Jan. 2	501	119	66	96
Transom-lifter.....	W. S. Robinson.....	527,347	Oct. 9	1096	267	69	218
Transom-lifter brackets. Manufacture of.....	C. Glover.....	515,670	Feb. 27	2785	694	66	1423
Transom-opener.....	J. E. Anger.....	517,135	Mar. 27	2353	555	66	1941
Transplanter.....	D. D. and F. H. Bemis.....	520,477	May 29	2680	647	67	1094
Transplanter.....	F. H. Bemis.....	520,478	May 29	2682	648	67	1095
Transplanter.....	J. W. Morgan.....	516,274	Mar. 13	884	207	66	1634
Transplanter.....	W. A. Pitt.....	516,745	Mar. 20	1694	401	66	1799
Transplanter.....	N. O. Starks and J. A. Johnson.....	511,814	Jan. 2	101	25, 26	66	22
Transplanter.....	M. C. and W. E. Whitworth.....	518,657	Apr. 24	2110	527	67	431
Transplanter. Tobacco.....	I. Unger.....	523,800	July 31	2833	704	68	590
Transplanter. Tree.....	J. Santmier.....	524,404	Aug. 14	779	190	68	821
Transplanter. Tree or flower.....	H. Baldridge.....	522,039	June 26	2300	551	67	1666
Transplanting-machine.....	C. O. Moore and T. J. Fitzsimmons.....	526,406	Sept. 25	1917	455	68	1541
Transplanting-machine.....	A. W. Stevens and L. D. Swart.....	519,460	May 8	938	227	67	731
Transplanting-machine.....	A. Willner.....	520,838	June 5	153	34	67	1225
Transplanting plants. Apparatus for.....	L. Humbarger.....	525,344	Sept. 4	31	7	68	1157
Transportable elevator for goods.....	D. Dart and T. R. Parker.....	519,447	May 8	917	221	67	728
Trap:							
See Animal-trap. Insect-trap.							
Animal gun-trap. Lobster-trap.							
Ant-trap. Mole-trap.							
Backwater-trap. Mud and oil trap.							
Basin-trap. Roach-trap.							
Bird-trap. Sink-trap.							
Caterpillar-trap. Sparrow-trap.							
Fire-trap. Steam-trap.							
Fish-trap. Steam and drain trap.							
Fly-trap. Target-trap.							
Grease-trap.							
Trap.....	H. T. Bush.....	526,991	Oct. 2	524	128	69	98
Trap.....	H. S. Goff and A. B. Judkins.....	513,915	Jan. 30	3627	894	66	819
Trap.....	F. Lamplough.....	528,727	Nov. 6	353	86	69	711
Trap.....	J. Leflet.....	516,937	Mar. 20	1998	470	66	1857
Trap.....	L. A. Turner and H. C. Fletcher.....	515,980	Mar. 6	398	92	66	1526
Traveling-bag.....	G. Willringhaus.....	517,181	Mar. 27	2440	574	66	1958
Traveling-bag.....	G. Willringhaus.....	517,182	Mar. 27	2442	575	66	1958
Traveling-bag. Extension.....	E. W. Thompson.....	515,928	Mar. 6	305	72	66	1510
Traveling-case.....	F. I. Leonard.....	514,327	Feb. 6	608	154	66	967
Traveling-cases. Fastener for telescopic.....	J. B. Duguid.....	526,229	Oct. 2	261	63	69	49
Travel-line.....	W. T. White.....	523,561	July 24	2404	602	68	495
Tray. Invalid.....	A. Bender.....	517,677	Apr. 3	445	107	67	85
Tray-rocking machine.....	J. Hess.....	525,602	Sept. 4	471	113	68	1239
Tray. Serving.....	H. L. Palmer.....	515,161	Feb. 20	1947	486	66	1251
Tray. Snoker's.....	W. H. O'Dwyer.....	517,528	Apr. 3	180	41	67	37
Tread-wheel.....	H. Ariens.....	528,066	Oct. 23	2333	563	69	476
Treadle.....	D. Peglaw.....	513,595	Jan. 30	3115	766	66	722
Treadle attachment.....	A. Prader.....	514,272	Feb. 6	510	126	66	949
Treadle. Machinery.....	J. E. Kirk.....	516,333	Mar. 13	973	231	66	1651
Treadle-spring.....	G. Frank, Jr.....	515,760	Mar. 6	43	13	66	1463
Tree-protector.....	P. Clines.....	514,306	Feb. 6	577	144	66	961
Tree-protector.....	C. Goersch.....	531,113	Dec. 18	1810	430	69	1575
Tree support. Fruit.....	L. W. Hihn.....	527,492	Oct. 16	1340	326	69	279
Trench-machine.....	J. L. Potter.....	524,731	Aug. 21	1310	321	68	931
Trestle.....	T. F. Moore.....	524,807	Aug. 21	1434	351	68	954
Tricycle.....	F. Bena.....	517,019	Mar. 27	2147	509	66	1902
Tricycle.....	M. Bernier.....	514,206	Feb. 6	392	93, 94	66	927
Tricycle.....	S. F. Estell.....	517,741	Apr. 3	550	133	67	107
Tricycle.....	E. Herrington.....	523,638	July 24	2530	635	68	519
Tricycle.....	A. Leininger and E. Shreiner.....	520,790	June 5	52	12	67	1206
Tricycle.....	W. V. Snyder.....	512,335	Jan. 9	1000	244	66	201
Tricycle. Figure.....	C. V. Best.....	524,413	Aug. 14	792	193	68	822
Trigger operating two locks alternately. Single.....	F. D. Granger.....	524,140	Aug. 7	300	71	68	717
Trimmer:							
See Hoof-trimmer. Sewing-machine trimmer.							
Lamp-trimmer. Welt-trimmer.							
Lawn-edge trimmer. Wick-trimmer.							
Rotary trimmer.							
Trimming. Dress-protector.....	G. H. Taylor.....	515,027	Feb. 20	1734	438	66	1211
Trimming-machine.....	J. W. Oliver.....	519,199	May 1	463	113	67	627
Tripod-leg.....	R. G. McDowell.....	530,443	Dec. 4	631	157	69	1331
Tribulating and emulsifying machine.....	W. B. Cowan.....	511,755	Jan. 2	23	6	66	8
Tribulating and powdering machine.....	A. B. Hall.....	515,217	Feb. 20	2038	508	66	1267
Triturator.....	L. A. Buchanan.....	529,361	Nov. 20	1496	360	69	960

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. G.	Vol.	Page.
Trocar and embalming-needle. Combined.....	L. G. Kregel.....	519,635	May 8	1261	303	67	788
Trolley.....	W. H. Bache.....	527,546	Oct. 16	1431	348 349	69	294
Trolley.....	W. F. Dncker.....	511,763	Jan. 2	35	9	66	10
Trolley.....	J. Guzowski.....	523,163	July 17	1710	429	68	353
Trolley.....	N. W. Haskins.....	525,015	Aug. 28	1806	441	68	1037
Trolley.....	B. F. Lare and C. M. Greer.....	528,949	Nov. 13	797	186	69	812
Trolley.....	G. A. Newhouse.....	531,383	Dec. 25	2309	551	69	1682
Trolley.....	C. E. Powell.....	531,331	Dec. 25	2215	530	69	1664
Trolley.....	H. and J. P. Scheele and H. A. Rust.....	521,184	June 12	768	180	67	1349
Trolley.....	E. M. Tonsley.....	520,973	June 5	400	97	67	1270
Trolley.....	J. A. Williams.....	514,801	Feb. 13	1377	346	66	1131
Trolley and feed wire bracket.....	L. S. Pfouts.....	526,409	Sept. 25	1923	457	68	1543
Trolley-arms. Conduit for.....	A. T. Fay.....	522,461	July 3	496	126	68	99
Trolley-catcher.....	W. D. Cobb.....	528,149	Oct. 30	2427	602	69	518
Trolley-catcher.....	E. M. Drummond.....	523,625	July 24	2509	630	68	514
Trolley-catcher.....	G. E. Gay and J. H. Parsons.....	511,941	Jan. 2	392	84, 85	66	69
Trolley-catcher.....	W. F. Kendt.....	530,276	Dec. 4	350	87	69	1279
Trolley-catcher.....	P. T. Milloy.....	531,380	Dec. 25	2304	550	69	1681
Trolley-catcher.....	L. G. Mowry.....	517,166	Mar. 27	2408	567	66	1952
Trolley-catcher.....	A. S. Osborn.....	528,685	Nov. 6	297	73	69	700
Trolley-conductor and support.....	M. D. Law.....	515,238	Feb. 20	2075	516	66	1274
Trolley-conductor. Electrical.....	J. W. Eisenhuth.....	533,319	July 17	1923	498	68	404
Trolley-conductor. Overhead.....	R. Muir.....	520,320	May 22	2429	501	67	1032
Trolley. Contact.....	R. W. Hawkesworth.....	521,163	June 12	730	173	67	1342
Trolley cut-out.....	M. Hanford.....	512,373	Jan. 9	1059	259	66	211
Trolley device. Electric.....	C. Knapp.....	516,492	Mar. 13	1428	299	66	1701
Trolley-car.....	C. A. Lieb.....	522,844	July 10	1122	285	68	233
Trolley. Electric-car.....	G. C. Bourdreaux.....	524,017	Aug. 7	52	18	68	677
Trolley for electrical conductors.....	D. N. Osyor.....	526,580	Sept. 25	2183	522	68	1590
Trolley-gnard.....	H. J. Tanner.....	526,756	Oct. 2	149	86	69	29
Trolley. Ice-cutting.....	R. W. Thompson.....	518,015	Apr. 10	1001	251	67	201
Trolley-line breaker.....	C. H. Dey and J. M. Anderson.....	525,767	Nov. 6	435	106	69	725
Trolley mechanism for electrically-propelled vehicles.....	C. H. Veeder.....	511,824	Jan. 2	119	29	66	26
Trolley-pole.....	A. S. McBean.....	522,915	July 10	1265	313	68	255
Trolley-pole catcher.....	O. G. Cates, Jr.....	521,602	June 19	1518	355	67	1503
Trolley-pole connection.....	M. R. Mahon and J. M. Crane.....	525,789	Sept. 11	813	186	68	1313
Trolley-pole stand.....	G. Valley.....	513,846	Jan. 30	3524	867	66	798
Trolley-pole stand.....	G. Valley.....	513,847	Jan. 30	3524	867	66	799
Trolley-spring.....	J. L. Hanson.....	526,705	Oct. 2	60	15	69	14
Trolley-stand.....	E. F. A. Heastings.....	522,057	June 26	2327	559	67	1672
Trolley-stand.....	F. N. Kelsey.....	529,552	Nov. 20	1867	444	69	1024
Trolley-track.....	W. H. Brodie.....	531,151	Dec. 18	1884	446	69	1588
Trolley tracks. Switch for overhead.....	C. G. Schmidt.....	519,351	May 8	768	188	67	699
Trolley tracks. Switch for overhead.....	C. G. Schmidt.....	530,661	Dec. 11	1050	256	69	1421
Trolley-wheel.....	J. D. Ansley.....	518,362	Apr. 17	1620	399	67	328
Trolley-wheel.....	C. E. Bostwick.....	522,550	July 3	635	161	68	124
Trolley-wheel.....	G. C. Bourdreaux.....	513,076	Jan. 23	2251	543	66	520
Trolley-wheel.....	V. Crusier.....	519,837	May 15	1586	388	67	862
Trolley-wheel.....	F. Lepper and W. Wighton.....	529,829	Nov. 27	2318	552	69	1118
Trolley-wheel.....	C. A. Lieb.....	522,845	July 10	1152	285	68	233
Trolley-wheel and support.....	D. R. Thomas.....	524,517	Aug. 14	954	235	68	852
Trolley-wheel guide.....	W. H. Dickerhoof.....	531,291	Dec. 18	2141	513	69	1635
Trolley-wheel shield. Electric.....	H. S. Prun.....	514,353	Feb. 6	512	126	66	950
Trolley-wire and support therefor.....	H. H. Ashley.....	530,674	Dec. 11	1070	260	69	1424
Trolley-wire bracket.....	W. S. Kline and J. B. Westhafer.....	514,437	Dec. 25	2392	572	69	1699
Trolley-wire bracket.....	L. S. Pfouts.....	526,408	Sept. 25	1922	457	68	1543
Trolley-wire circuit-breaker.....	T. J. McTighe and S. W. Childs.....	524,283	Aug. 7	525	123	68	756
Trolley-wire clamp.....	M. M. Wood.....	530,569	Dec. 11	890	219	69	1394
Trolley-wire clip.....	J. W. Perry.....	528,561	Nov. 6	59	16	69	657
Trolley-wire crossing.....	E. H. Allen.....	519,519	May 8	1067	256	67	753
Trolley-wire finder.....	E. Gale.....	513,566	Jan. 30	3074	756	66	714
Trolley-wire finder.....	E. Gale.....	526,183	Sept. 18	1496	351	68	1447
Trolley-wire finder.....	T. E. Gressle.....	521,311	June 12	995	234	67	1391
Trolley-wire finder.....	F. F. and W. S. Meyer.....	530,954	Dec. 18	1524	361	69	1523
Trolley-wire finder. Automatic.....	T. Straus.....	518,357	Apr. 17	1603	397	67	326
Trolley-wire hanger.....	J. M. Andersen.....	529,058	Nov. 13	967	229	69	842
Trolley-wire hanger.....	A. B. Crouse and C. A. Rutledge.....	519,446	May 8	916	221	67	727
Trolley-wire hanger.....	G. Forbus.....	515,907	Mar. 6	274	64	66	1505
Trolley-wire hanger.....	J. J. Green.....	526,704	Oct. 2	59	15	69	14
Trolley-wire hanger.....	T. J. McTighe.....	522,180	June 26	2336	609	67	1712
Trolley-wire hanger.....	T. J. McTighe and S. W. Childs.....	520,213	May 22	2243	546	67	996
Trolley-wire hanger.....	C. F. Strasburg.....	519,621	May 8	1241	293	67	724
Trolley-wire hanger.....	I. B. Walker.....	526,422	Sept. 25	1943	464	68	1546
Trolley-wire shield.....	L. Eschner.....	514,932	Feb. 6	638	163	66	973
Trolley-wire support.....	F. C. Fisk.....	527,840	Oct. 23	1913	460	69	399
Trolley-wire support.....	R. M. Hunter.....	514,274	Feb. 20	1585	398	66	1185
Trolley-wire support.....	B. J. Jones.....	520,737	May 29	3121	755	67	1175
Trolley-wire support.....	C. T. Lee.....	511,853	Jan. 2	163	42	66	35
Trolley-wire support.....	L. McCarthy.....	520,937	June 5	344	84	67	1260
Trolley-wire support.....	M. M. Wood.....	527,920	Oct. 23	2068	496	69	428
Trolley-wire support.....	L. Yakel.....	524,014	Aug. 7	79	17, 18	68	677
Trolley-wire support and coupling.....	A. P. Gould.....	529,903	Nov. 27	2438	586	69	1141
Trolley-wire support or hanger.....	S. C. Woodhead.....	527,355	Oct. 9	1113	271	69	221
Trolley-wire suspension-clip.....	W. F. D. Crane.....	522,362	July 3	319	82	68	63
Trolley-wire switch.....	J. M. Andersen.....	524,672	Aug. 14	1206	295	68	900
Trolley-wire switch and crossing.....	N. W. Haskins.....	525,016	Aug. 28	1807	441	68	1037
Trolley-wire switch. Overhead.....	G. W. Mackenzie, M. B. Sloan, and T. C. Sloane.....	512,201	Jan. 2	784	191	66	148
Trolley-wire switch-plate.....	G. A. Huben.....	528,101	Oct. 23	2403	581	69	478
Trolley-wires. Combined hanger and automatic switch for.....	R. Scheffbauer.....	522,621	July 10	773	195	68	166
Trolley-wires. Overhead switch for.....	H. M. Greenwood.....	525,598	Sept. 4	465	112	68	1238

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Invention	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Trolling-spoon	J. R. Harlow	520,594	May 29	2872	696	67	1131
Trolling-spoon	H. J. Thayer	524,494	Aug. 14	911	225	68	845
Trombone	F. A. Leland	530,781	Dec. 11	1249	302	69	1458
Trombone-gage	J. L. De Gord.	526,616	Sept. 25	2245	536	68	1602
Trough:							
See Conveyer-trough. Refrigerator drip-trough.							
Eaves-trough. Stock-trough.							
Feed-trough. Watering-trough.							
Hog-trough.							
Trough	A. W. Haag	531,527	Dec. 25	2561	613	69	1730
Trousers	J. E. Leavitt	518,309	Apr. 17	1632	402	67	331
Trousers	S. Rachelman	511,797	Jan. 2	80	20	66	18
Trousers	S. Schoenbrun	518,727	Apr. 24	2246	559	67	454
Trousers	L. S. Schauer	528,038	Oct. 23	2290	552	69	467
Trousers	E. W. Walther and A. W. Street ..	514,576	Feb. 13	998	252	66	1059
Trousers clasp or guard	G. A. Tower	523,557	July 24	2399	601	68	494
Trousers-fastener	J. N. Rhoads	531,063	Dec. 18	1714	407	69	1557
Trousers or coat	G. J. Morse	528,178	Oct. 30	2535	614	69	528
Trousers-strap	G. B. Adams	523,063	July 17	1521	380	68	319
Trousers-stretcher	J. B. Cook	529,600	Nov. 20	1940	462	69	1039
Trousers-stretcher	G. M. Hathaway	526,651	Sept. 25	2306	551	68	1613
Trousers-stretcher	M. Latham	518,760	Apr. 24	2301	571	67	464
Trousers-stretcher	C. W. Laubiu	522,991	July 17	1407	351	68	297
Trousers-stretcher	H. A. Saltzman	525,288	Aug. 28	2275	554	68	1122
Trousers-stretcher	M. J. Weedon	526,953	Oct. 2	467	115	69	86
Trousers-supporter	E. I. Pyle	525,513	Sept. 4	320	79	68	1211
Trowel	R. Walrath	515,890	Mar. 6	251	59	66	1501
Truck	G. F. Armstrong	513,748	Jan. 30	3373	832	66	768
Truck	M. G. Bailey	516,857	Mar. 20	1866	441	66	1233
Truck	T. R. Campbell	517,642	Apr. 3	374	89	67	73
Truck	B. Goldensky	523,520	July 24	2347	589	68	484
Truck	J. D. Grabill	528,939	Nov. 13	781	183	69	809
Truck	E. Hickman	517,219	Mar. 27	2496	587	66	1969
Truck	J. M. K. Pennink	518,535	Apr. 17	1905	{ 471 472 }	{ 67 67 }	380
Truck	F. Peter	524,210	Aug. 7	418	99	68	738
Truck	G. Phillon	511,793	Jan. 2	76	19	66	17
Truck	J. B. Randall	528,443	Oct. 30	2992	723	69	609
Truck	R. S. Rust	529,960	Nov. 27	2541	612	69	1158
Truck	C. W. Schwartz, Jr.	525,102	Aug. 28	2081	507	68	1085
Truck and bag-holder. Combined	J. Bouse	530,007	Nov. 27	2644	635	69	1181
Truck and hoist. Combined	J. P. B. Fiske	518,235	Apr. 17	1380	346	67	285
Truck and stand. Combined barrel	A. Buys	520,104	May 22	2032	495	67	960
Truck. Baggage	J. M. Frysinger	526,698	Oct. 2	43	12	69	11
Truck. Barrel	J. J. Becker	515,273	Feb. 20	2133	530	66	1286
Truck. Barrel	O. J. Bowser	530,577	Dec. 11	900	221	69	1395
Truck. Barrel	J. L. Hamilton	526,809	Oct. 2	229	56	69	43
Truck. Barrel	C. A. Hutchinson	531,189	Dec. 18	1051	463	69	1601
Truck. Basket	E. M. Sprague and J. F. Rutter ..	523,244	July 17	1860	467	68	320
Truck. Car	J. C. Barber	528,844	Nov. 6	592	140	69	754
Truck. Car	N. C. Bassett	516,791	Mar. 20	1753	413	66	1809
Truck. Car	E. Cliff	521,205	June 12	805	189	67	1356
Truck. Car	J. W. Cooper	513,829	Jan. 30	3595	{ 885 886 }	{ 66 66 }	812
Truck. Car	S. Fox	521,709	June 19	1697	{ 398 399 }	{ 67 67 }	1539
Truck. Car	E. G. Gibson	517,688	Apr. 3	463	112	67	89
Truck. Car	E. G. Gibson	517,744	Apr. 3	556	135	67	108
Truck. Car	J. L. Hardie	517,571	Apr. 3	254	59	67	50
Truck. Car	B. F. Manier, Jr.	529,284	Nov. 13	1360	326	69	912
Truck. Car	J. T. and C. M. Robinson	512,749	Jan. 16	1698	{ 406 407 }	{ 65 65 }	348
Truck. Car	M. B. Schaffer	516,993	Mar. 20	2091	495	66	1874
Truck. Car	J. B. Smithman	513,835	Jan. 30	3504	863	66	794
Truck. Car	C. Thompson	514,873	Feb. 13	1492	374	66	1152
Truck. Car	L. Warfield	519,824	May 15	1563	383	67	858
Truck center-plate. Car	W. J. O'Byrne	515,246	Feb. 20	2087	518	66	1277
Truck. Church	N. T. Shaw	541,471	Dec. 25	2469	588	69	1713
Truck. Dry-kiln lumber	F. Kirk	515,232	Feb. 20	2065	514	66	1272
Truck. Electric-car	W. Sutton	531,575	Dec. 25	2640	{ 632 633 }	{ 69 69 }	1747
Truck. Electric-car	C. F. Winkler	514,109	Feb. 6	208	47, 48	66	893
Truck. Electric-motor	J. C. Henry	520,720	June 5	32	7	67	1203
Truck. Electric-railway-car	F. O. Blackwell	522,129	July 3	5	2	68	3
Truck. Farm	J. L. H. Baker	525,126	Aug. 28	2009	491	68	1073
Truck for handling sewer-pipe	F. E. McElfresh	528,011	Oct. 23	2248	543	69	460
Truck for moving heavy bodies	C. Kynoch	520,319	May 22	2416	588	67	1029
Truck for railway-trains. Pneumatic buffer	C. J. Gray	518,449	Apr. 17	1766	{ 437 438 }	{ 67 67 }	356
Truck. Glass-carrying	R. M. Roberts	524,909	Ang. 21	1600	391	68	983
Truck. Hand	J. Frenette	522,202	July 3	32	9	68	8
Truck. Hand	D. Y. Grieb	530,991	Dec. 18	1592	378	69	1534
Truck. Hand	J. J. Healy	525,707	Sept. 11	676	157	68	1288
Truck. Hand	C. Lepage	529,738	Nov. 27	2163	516	69	1088
Truck. Hand	F. E. Parke	514,866	Feb. 13	1477	371	66	1150
Truck. Hand	W. Robinson and F. D. Fergusson ..	513,201	Jan. 23	2447	591	66	560
Truck. Hand	H. E. Spaulding	512,915	Jan. 16	2012	477	66	407
Truck. Hand	H. O. Thomas	528,747	Nov. 6	369	93, 94	69	717
Truck. House-moving	S. C. Maple	517,052	Mar. 27	2218	525	66	1914
Truck. Logging	W. Brongh, Jr.	531,503	Dec. 25	2523	603	69	1723
Truck. Merchandise	T. B. Fitzpatrick	530,030	Nov. 27	2681	664	69	1183
Truck. Motor-car	W. A. Dutton and J. F. Pfetch ..	517,565	Apr. 3	243	56, 57	67	48
Truck pedestal and axle-box. Car	E. Cliff	526,857	Oct. 2	311	76	69	5
Truck. Piano	F. E. Davis	517,543	Apr. 3	207	48	67	42

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Truck. Radial-car.....	W. Robinson	524,402	Aug. 14	775	{ 189 190 }	68	820
Truck. Radiator.....	T. B. Mason	530,437	Dec. 4	624	155	69	1329
Truck. Railway.....	E. Egger and F. A. Wessel.....	518,313	Apr. 17	1511	378	67	308
Truck. Railway.....	W. A. McGuire and M. G. Hubbard, Jr.	531,208	Dec. 18	1989	{ 472 473 438 }	69	1607
Truck. Railway-car.....	N. C. Bassett.....	521,778	June 26	1837	{ 437 438 }	67	1579
Truck. Roller-bearing.....	G. W. Bacon.....	523,098	July 17	1576	396	68	330
Truck safety attachment. Car.....	L. F. Fisher.....	522,365	July 3	324	83	68	64
Truck. Spring-bearing car.....	W. Sutton.....	531,574	Dec. 25	2637	632	69	1746
Truck. Stove.....	H. M. Putt.....	521,127	June 5	662	156	67	1317
Truck. Stove.....	A. Thiele and C. F. Fox.....	525,298	Aug. 28	2287	556	68	1125
Truck. Street-car.....	F. E. Canda.....	525,590	Sept. 4	454	{ 108 109 }	68	1235
Truck. Vehicle.....	W. Voss.....	515,099	Feb. 20	1836	463	66	1231
Trucks. Bunk for logging.....	C. D. Matheny.....	513,124	Jan. 23	2331	561	66	537
Trucks. Center bearing for car.....	W. Robinson.....	526,844	Oct. 2	285	68, 69	69	54
Trucks. Flexible gear for electric-car.....	F. A. Wessel and E. Egger.....	531,351	Dec. 25	2248	{ 536 537 }	69	1670
Trucks. Motor-support for motor.....	W. S. Adams.....	513,226	Jan. 23	2480	599	66	566
Trunk.....	G. Crouch.....	525,488	Sept. 4	283	70	68	1204
Trunk.....	B. Dickenson.....	519,569	May 8	1147	275	67	768
Trunk.....	N. Drucker.....	529,482	Nov. 20	1738	414	69	1002
Trunk.....	G. S. Eggeman.....	522,318	July 3	246	65	68	49
Trunk.....	E. L. Forsgren.....	519,179	May 1	430	{ 105 106 }	67	621
Trunk.....	W. S. Foster.....	526,568	Sept. 25	2170	518	68	1587
Trunk.....	H. and J. F. Fuchs.....	528,719	Nov. 6	342	83	69	708
Trunk.....	W. B. Gwyn.....	513,011	Jan. 16	2165	516	66	435
Trunk.....	I. B. Kanffman.....	527,336	Oct. 9	1079	{ 260 261 }	69	214
Trunk.....	F. Lyford.....	520,692	May 29	3049	739	67	1162
Trunk.....	K. S. O'Keefe.....	531,003	Dec. 18	1614	3-3	69	1539
Trunk.....	M. M. Secor.....	511,208	Jan. 2	94	24	66	21
Trunk.....	H. D. Thacker.....	514,099	Feb. 6	194	45	66	891
Trunk.....	W. H. S. Westlake.....	517,711	Apr. 3	501	{ 120 121 }	67	97
Trunk and display tray.....	W. P. Bingham and D. R. Jones, Jr.	530,002	Nov. 27	2637	633	69	1180
Trunk attachment.....	C. W. Clifton.....	519,528	May 8	1081	259	67	756
Trunk, book-case, and writing-desk. Combination.....	J. J. Holm.....	529,793	Nov. 27	2249	536	69	1104
Trunk, bureau, and writing-table. Combination.....	S. T. Andrus.....	521,873	June 26	1978	478	67	1608
Trunk. Collapsible.....	E. J. M. Clemens.....	517,841	Apr. 10	701	{ 177 178 }	67	151
Trunk. Combination.....	A. Botkin.....	512,941	Jan. 16	2056	457	66	414
Trunk corner and binge piece.....	G. F. Pottle.....	522,182	June 26	2538	600	67	1712
Trunk-fastener.....	W. Bruen.....	517,429	Apr. 3	13	3	67	5
Trunk-fastener.....	R. Flocke.....	530,406	Dec. 4	577	143	69	1320
Trunk-handle.....	G. Crouch.....	518,095	Apr. 10	1133	285	67	223
Trunk-lock.....	L. Hillebrand.....	513,461	Jan. 23	2876	707	66	642
Trunk-lock.....	E. A. Judd.....	515,690	Feb. 27	2828	704	66	1431
Trunk-lock.....	E. A. Judd.....	521,471	June 19	1294	301	67	1464
Trunk, portmanteau, &c.....	E. Bronsdon.....	522,146	June 26	2483	{ 595 596 }	67	1701
Trunk-strap fastener.....	P. Mundry and H. Pomtier.....	519,505	May 8	1020	247	67	745
Trunk-strap fastener.....	W. J. Webb.....	521,227	June 12	845	197	67	1363
Trunk-top.....	F. Kukkuck.....	513,470	Jan. 23	2829	712	66	645
Trunk. Wardrobe.....	R. Alfeld.....	514,585	Feb. 13	1021	257	66	1063
Trunk. Wardrobe.....	W. Deutsch.....	515,118	Feb. 20	1871	470	69	1236
Trunk. Writing-desk.....	E. von Pfeil.....	522,390	July 3	381	97	68	75
Truss.....	G. W. Bell.....	515,948	Mar. 6	336	80	66	1516
Truss.....	E. E. Boomhower.....	519,882	May 15	1662	405	67	876
Truss.....	J. Brickner and A. S. Herr.....	517,639	Apr. 3	369	87	67	72
Truss.....	C. H. Chapman and W. S. Goodhue.....	522,967	July 17	1364	339	68	290
Truss.....	A. Hessels.....	513,681	Jan. 30	3263	802	66	748
Truss.....	D. W. Lewis.....	513,525	Jan. 30	3102	703	66	719
Truss.....	R. Nagler.....	522,764	July 10	1035	256	68	211
Truss.....	W. S. Rice.....	523,844	July 31	2918	{ 727 728 }	68	606
Truss.....	C. B. Röstel.....	517,194	Mar. 27	2458	578	66	1962
Truss.....	L. A. Smith.....	531,343	Dec. 25	2236	534	69	1667
Truss.....	J. W. Snead.....	523,753	July 31	2752	683	68	574
Truss.....	J. F. Stafford.....	530,973	Dec. 18	1564	371	69	1529
Truss.....	C. Verniard.....	528,046	Oct. 23	2302	555	69	470
Truss.....	F. A. Wheeler.....	522,952	July 10	1334	331	68	269
Tub:							
See Bath-tub. Washtub.							
Tub.....	W. Gwynn, Jr., and D. Spencer.....	520,880	June 5	225	51	67	1238
Tub roller and shaper.....	W. B. Sylvester.....	521,739	June 19	1748	415	67	1548
Tubs or boilers. Feeder for metallic.....	F. K. Roberts and G. M. Burroughs.....	517,827	Apr. 3	678	169	67	132
Tube:							
See Breathing-tube. Insulating-tube.							
Cop-tube. Mailing-tube.							
Tube-cutter.....	J. F. Beck and J. W. Koulms.....	516,424	Mar. 13	1133	269	66	1680
Tube-drawing device.....	C. G. Larson.....	519,086	May 1	252	60	67	584
Tube-expander.....	W. M. Bullock.....	529,244	Nov. 13	1290	310	69	899
Tube-expander.....	C. W. Umholtz.....	521,742	June 19	1754	416	67	1549
Tube-machine.....	D. B. Strouse.....	529,426	Nov. 20	1631	{ 387 388 }	69	983
Tube or flue cleaner.....	D. Hanson.....	527,972	Oct. 23	2175	522	60	447
Tube-stopper.....	E. W. Craino.....	518,226	Apr. 17	1369	343	67	223
Tubes. Apparatus for wiping galvanized.....	T. L. Thomas and J. B. Hillman.....	525,567	Sept. 4	421	101	68	1229
Tubes from hollow ingots. Machine for making taper.....	S. P. M. Tasker.....	513,218	Jan. 23	2471	597	66	564
Tubes. Manufacture of solder-lined seamless.....	L. L. Burdou.....	525,676	Sept. 4	597	143	68	1261

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Tubing. Apparatus for the manufacture of.....	Z. Horovsky.....	529,910	Nov. 27	2448	{ 588 589 590	69	1142
Tubing. Attaching-socket for.....	J. J. Vantier.....	530,563	Dec. 11	880	216	69	1392
Tubular and sectional boiler.....	G. H. Hersey.....	513,045	Jan. 16	2210	529	66	444
Tubular apparatus.....	F. M. Ashley.....	526,553	Sept. 25	2143	513	68	1582
Tubular articles. Making.....	C. T. Cayley and R. S. Courtman.....	529,597	Nov. 20	1935	461	69	1038
Tubular boiler.....	C. Alfonso.....	525,248	Aug. 28	2209	{ 537 538	68	1107
Tubular boiler.....	J. J. Brown.....	521,150	June 12	704	{ 164 165	67	1337
Tubular boiler.....	J. P. Serve.....	521,442	June 12	1231	291	67	1436
Tubular boiler. Circulating.....	J. A. Bernard.....	525,940	Sept. 11	1076	245	68	1359
Tubular boiler. Circulating.....	E. L. Martin.....	525,958	Sept. 11	1119	254	68	1367
Tubular casings. Machine for making.....	E. M. Harrington.....	521,792	June 26	1853	{ 442 443	67	1583
Tubular coupling.....	G. L. Barnard.....	514,055	Feb. 6	126	30	66	877
Tubular metallic post.....	W. and C. Andrew.....	519,311	May 8	679	166	67	683
Tug-adjuster.....	F. Sherry.....	527,732	Oct. 16	1735	418	69	350
Tug fastening. Hame.....	W. P. Gelabert.....	521,567	June 19	1461	342	67	1494
Tug. Hame.....	H. Bockelman.....	517,260	Mar. 27	2561	601	66	1982
Tug. Hame.....	J. C. Clausen.....	528,414	Oct. 30	2945	712	69	601
Tug. Hame.....	A. L. Hill.....	527,747	Oct. 16	1759	424	69	354
Tug. Hame.....	L. G. Gustavel.....	513,919	Jan. 30	3632	895	66	820
Tug. Hame.....	F. W. Miller.....	515,438	Feb. 27	2425	601	66	1352
Tug. Hame.....	J. W. Rookwood.....	516,404	Mar. 13	1100	262	66	1673
Tug. Hame.....	W. Timmins.....	519,030	May 1	150	36	67	565
Tug-holder.....	G. G. F. Boswell.....	529,676	Nov. 20	2056	492	69	1060
Tug. Shaft.....	J. D. Harrigan.....	527,173	Oct. 9	808	197	69	165
Tug. Shaft.....	A. E. Hart.....	531,529	Dec. 25	2564	613	69	1731
Tug. Shaft.....	E. Logan.....	524,529	Aug. 14	973	239	68	856
Tug. Thill.....	A. I. Brundage.....	525,485	Sept. 4	279	62	68	1203
Tug. Thill.....	S. H. Haas.....	514,458	Feb. 13	795	205	66	1021
Tumbler.....	W. W. Doolittle.....	518,735	Apr. 24	2265	{ 562 563	67	457
Tumbler-washer.....	S. S. C. Gaskell.....	529,527	Nov. 20	1826	434	69	1017
Tumblers, &c. Machine for finishing.....	W. H. Barr.....	527,994	Oct. 23	2074	{ 496 497	69	429
Tumbling-barrel.....	F. J. Morgan.....	512,312	Jan. 9	960	234	66	194
Tuning device.....	D. M. White.....	521,688	June 19	1665	391	67	1532
Tunnel.....	A. S. Dandridge.....	524,313	Aug. 14	590	142	68	788
Tunnel. Subaqueous.....	E. H. Luken.....	522,222	July 3	83	18, 19	68	16
Tunnels. Centering for.....	J. McNamara.....	521,767	June 19	1813	430	67	1558
Tunnels. Method of and apparatus for driving.....	P. Kraus.....	512,037	Jan. 2	513	122	66	98
Tunneling-machine.....	R. Stanley.....	524,149	Aug. 7	314	74	68	719
Turbine.....	S. and G. H. Harrison.....	530,520	Dec. 11	801	198	69	1378
Turbine.....	G. M. Hopkins.....	521,713	June 19	1704	400	67	1540
Turbine. Steam.....	C. G. P. de Laval.....	522,066	June 26	2340	{ 561 562	67	1674
Turbine. Steam.....	N. G. K. Husberg.....	525,105	Aug. 28	1977	483	68	1066
Turbine wheel. Steam.....	E. Seger.....	530,802	Dec. 11	1274	308	69	1463
Turbines. Bearing for steam.....	C. A. Parsons.....	513,367	Jan. 23	2714	659	66	612
Turu-indicator.....	C. M. Jarvis.....	526,459	Sept. 25	2054	489	68	1566
Turustile.....	S. P. Walmsley.....	517,080	Mar. 27	2262	535	66	1924
Turnstile-gate. Coin-controlled.....	O. H. Williams.....	529,006	Nov. 13	892	{ 209 210	69	827
Turnstile register-actuating attachment.....	O. H. Williams.....	529,007	Nov. 13	887	210	69	827
Turn-table.....	W. H. Pratt and J. Brunner.....	517,126	Mar. 27	2338	551	66	1939
Turn-table.....	G. Rohrbach.....	517,304	Mar. 27	2637	619	66	1996
Turn-table.....	C. L. Strobel.....	528,402	Oct. 30	2921	{ 707 708	69	596
Turn-table.....	J. B. Tinsley.....	521,060	June 5	553	129	67	1297
Turning bobbins, spools, &c. Machine for automati- cally.....	J. M. Parker.....	519,967	May 15	1792	{ 440 441	67	901
Turning-machine.....	C. M. Davis.....	514,215	Feb. 6	418	102	66	931
Turning-machine.....	C. M. Davis.....	514,216	Feb. 6	419	102	66	931
Turning-machine. Automatic.....	R. H. Grant.....	517,004	Mar. 20	2106	498	66	1878
Turning-machine. Roll.....	G. Vine.....	522,924	July 10	1282	317	68	258
Turning-machine. Wood.....	F. W. Heuser.....	525,952	Sept. 11	1151	{ 261 262	68	1373
Turpentine. Extracting.....	J. C. Schuler.....	530,205	Dec. 4	225	56	69	1256
Turret-head for drill-machines.....	W. C. Jennings.....	520,362	May 22	2497	{ 603 604	67	1045
Turret-head machine.....	A. D. Quint.....	520,079	May 22	1993	{ 457 458 459	67	952
Turret-machine for boring cylinders.....	F. H. Richards.....	513,827	Jan. 30	3488	{ 859 860	66	791
Turret mechanism.....	F. H. Richards.....	517,168	Mar. 27	2413	568	66	1953
Turret-tool machine.....	G. E. Witherell.....	511,829	Jan. 2	127	31, 32	66	27
Tuyere.....	J. G. Habelt.....	521,857	June 26	1954	470	67	1603
Tuyere. Forced-draft.....	B. F. White.....	522,815	July 10	1112	275	68	225
Tuyeres and pipes. Machine for forming.....	M. L. Williams.....	518,169	Apr. 10	1251	315	67	243
Twine and making same.....	F. R. Williams.....	520,249	May 22	2395	559	67	1008
Twine-balling machine.....	A. Blackie and C. W. Shartle.....	516,625	Mar. 13	1476	{ 350 351 352	66	1744
Twine-box.....	J. W. Herriott.....	518,504	Apr. 17	1853	459	67	370
Twine cleaner and oiler.....	A. E. Clibborn.....	516,964	Mar. 20	2044	483	66	1866
Twine for binding grain.....	F. R. Williams.....	523,059	July 17	1517	379	68	318
Twine for grain-binding harvesters.....	F. R. Williams.....	523,060	July 17	1518	380	68	318
Twine-holder.....	W. S. Braden.....	530,878	Dec. 11	1395	332	69	1484
Twine-holder.....	J. J. Hooker and B. W. Putnam.....	520,312	May 22	2403	584	67	1026
Twine-holder.....	P. C. Schowalter.....	528,694	Nov. 6	311	76	69	702
Twine-holder.....	A. H. Schwan.....	529,756	Nov. 27	2191	522	69	1093

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Twine holder and take-up	E. Nelson	517,474	Apr. 3	100	22	67	21
Twine-machine	G. Florence	530,891	Dec. 11	1415	336	69	1488
Twine. Making	F. R. Williams	523,061	July 17	1519	380	68	318
Twine-making machines. Automatic feeder for	G. A. Lowry	524,423	Aug. 14	805	197	68	825
Twine-reel	W. H. Reehm	520,189	May 22	2203	536	67	989
Twister-roll	A. E. Rhoades and G. A. Draper	513,826	Jan. 30	3487	859	66	790
Twisting-machine step-motion	H. and J. W. Collins	517,030	Mar. 27	2169	513	66	1905
Typing-machine	L. S. Burbank	515,143	Feb. 20	1915	480	66	1245
Type	G. W. Weaver	525,754	Sept. 11	750	174	68	1301
Type. Apparatus for automatically justifying	P. F. Cox	528,857	Nov. 6	621	146	69	759
Type. Art of and apparatus for coloring the print- ing-surface of cast	M. M. Gillam	518,063	Apr. 10	1082	273	67	214
Type-bars. Machine for producing cast	C. Skatulla	529,205	Nov. 13	1223	295	69	857
Type. Binder or tie-up for pages of	J. Vierling	512,924	Jan. 16	2027	481	66	410
Type casting and setting machine	G. A. Goodson	530,481	Dec. 4	694	173	69	1342
Type. Device for removing leads from	W. Weatherby	520,465	May 29	2661	643	67	1091
Type-distributing apparatus	C. F. Hilder	517,802	Apr. 3	643	161	67	125
Type-distributing apparatus	C. F. Hilder	531,531	Dec. 25	2566	614	69	1731
Type-distributing machine	L. K. Johnson	526,106	Sept. 18	1363	317	68	1424
Type-distributing machine	F. Praunegger	524,693	Aug. 14	1239	304	68	905
Type-dressing machine	G., J. G., and M. O. Rehfuß	527,371	Oct. 9	1141	279	69	227
Type-founding machine	A. Foucher	526,569	Sept. 25	2171	518	68	1587
Type-holder	J. C. Corbett	524,460	Aug. 14	862	61	68	836
Type-holder	R. A. Stewart	526,822	Oct. 2	250	61	69	47
Type. Holder-plate for	A. E. Newby	512,447	Jan. 9	1210	293	66	241
Type leveling and aligning device	L. P. Diss	521,338	June 12	1053	247	67	1402
Type. Machine for cutting rubber	L. K. Scotford	531,069	Dec. 18	1722	410	69	1559
Type. Method of and apparatus for making rubber	L. K. Scotford	528,308	Oct. 30	2768	668	69	569
Type. Method of and machine for justifying	J. L. McMillan	521,039	June 5	505	120	67	1288
Type-setting apparatus	L. K. Johnson	517,144	Mar. 27	2365	558	66	1941
Type setting apparatus	L. K. Johnson	523,740	July 31	2728	675	68	570
Type-setting apparatus	L. K. Johnson	523,741	July 31	2730	676	68	570
Type-setting apparatus	L. K. Johnson	529,497	Nov. 20	1769	421	69	1007
Type-setting apparatus	L. K. Johnson and A. A. Low	522,714	July 10	920	229	68	193
Type-setting apparatus	L. K. Johnson and A. A. Low	522,715	July 10	922	230	68	193
Type-setting apparatus	L. K. Johnson and A. A. Low	522,716	July 10	925	231	68	194
Type-setting apparatus	L. K. Johnson and A. A. Low	523,742	July 31	2732	677	68	570
Type-setting apparatus	L. K. Johnson and A. A. Low	523,743	July 31	2733	677	68	571
Type-setting apparatus	L. K. Johnson and A. A. Low	523,744	July 31	2735	678	68	571
Type-setting apparatus	L. K. Johnson and A. A. Low	523,745	July 31	2737	679	68	571
Type-setting apparatus	L. K. Johnson and A. A. Low	529,446	Nov. 20	1673	398	69	991
Type-setting apparatus	L. K. Johnson and A. A. Low	529,447	Nov. 20	1675	399	69	991
Type-setting machine	P. F. Cox	528,855	Nov. 6	611	145	69	757
Type-setting machine	P. F. Cox	528,856	Nov. 6	614	145	69	758
Type-setting machine	C. F. Hilder	520,311	May 22	2401	583	67	1026
Type-setting machine	F. Praunegger	524,692	Aug. 14	1234	301	68	905
Type-setting machines. Perforating strips for	T. B. Caswell	523,760	July 31	2761	304	68	576
Type-writer cabinet	H. T. Conde	517,843	Apr. 10	704	178	67	151
Type-writer cabinet	S. L. Conde	517,031	Mar. 27	2170	514	66	1906
Type-writer cabinet	M. Foley	527,272	Oct. 9	953	238	69	197
Type-writer cabinet	L. S. Hayes	521,956	June 26	2157	518	67	1641
Type-writer cabinet	L. S. Hayes	521,957	June 26	2159	518	67	1641
Type-writer cabinet	C. Morrison	524,599	Aug. 14	1078	267	68	876
Type-writer case and table. Combined	F. C. Wood	521,067	June 5	564	132	67	1299
Type-writer copy-holder	S. L. Conde	528,531	Nov. 6	14	5	69	649
Type-writer copy-holder	E. P. Peacock	512,212	Jan. 2	801	195	66	152
Type-writer counter	A. V. Gearbart	519,180	May 1	431	106	67	621
Type-writer inking-ribbon	T. B. Brown	528,142	Oct. 30	2479	600	69	517
Type-writer machines. Machine for inking ribbons for	R. G. Hopkins	524,276	Aug. 7	516	120	68	754
Type-writer word-register	J. E. Withrow	524,496	Aug. 14	914	121	68	846

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Type-writing machine	W. J. Barron	514,807	Feb. 13	1384	348	66	1133
Type-writing machine	L. B. Berrien	513,476	Jan. 30	2902	715	66	682
Type-writing machine	C. H. Boynton	522,285	July 3	193	52, 53	68	40
Type-writing machine	W. Clark	519,320	May 8	697	171	67	686
Type-writing machine	O. Cohn	523,786	July 31	2802	696	68	584
Type-writing machine	S. L. Condé	514,910	Feb. 20	1552	390	66	1179
Type-writing machine	S. L. Condé	514,911	Feb. 20	1560	391	66	1180
Type-writing machine	S. L. Condé	514,912	Feb. 20	1561	391	66	1180
Type-writing machine	J. S. Copeland	512,365	Jan. 9	1044	255	66	209
Type-writing machine	L. S. Crandall	522,653	July 10	818	204	68	174
Type-writing machine	J. D. Daugherty	514,846	Feb. 13	1452	365	66	1146
Type-writing machine	L. P. Diss	516,300	Mar. 13	919	216	66	1641
Type-writing machine	L. P. Diss	526,894	Oct. 2	371	93, 94	69	69
Type-writing machine	T. J. Downing	529,522	Nov. 20	1818	433	69	1016
Type-writing machine	J. Felbel	526,774	Oct. 2	177	41	69	34
Type-writing machine	H. E. Gifford	523,788	July 31	2806	697	68	584
Type-writing machine	J. Herran y Bolado	524,816	Aug. 21	1452	355	68	957
Type-writing machine	C. Hess	516,973	Mar. 20	2056	466	66	1869
Type-writing machine	J. N. Howard	513,110	Jan. 23	2299	556	66	530
Type-writing machine	J. H. Hudson	521,616	June 19	1546	362	67	1505
Type-writing machine	A. H. Huth	525,345	Sept. 4	33	7, 8, 9, 10	68	1157
Type-writing machine	J. Jackson	529,387	Nov. 20	1553	371	69	970
Type-writing machine	W. F. Kasson	523,274	Nov. 13	1348	372	69	910
Type-writing machine	A. Larsen	515,710	Feb. 27	2856	710	66	1436
Type-writing machine	A. Larsen	515,711	Feb. 27	2858	711	66	1436
Type-writing machine	A. Lowe	531,321	Dec. 25	2200	526	69	1661
Type-writing machine	T. Oliver	528,484	Oct. 30	3068	744	69	623
Type-writing machine	W. P. Quentell	517,603	Apr. 3	419	101	67	80
Type-writing machine	G. L. Rawdon	519,390	May 8	835	102	67	712
Type-writing machine	R. W. Roberts	529,410	Nov. 20	1601	203	69	978
Type-writing machine	J. W. Schnuckers	529,810	Nov. 27	2276	380	69	1109
Type-writing machine	W. Sears	524,867	Aug. 21	1538	543	68	972
Type-writing machine	E. S. Shimer	511,912	Jan. 2	314	375	66	61
Type-writing machine	E. S. Shimer	512,064	Jan. 2	559	73, 74	66	107
Type-writing machine	Z. G. Sholes	527,543	Oct. 16	1425	132	69	293
Type-writing machine	Z. G. Sholes	527,544	Oct. 16	1428	133	69	294
Type-writing machine	Z. G. Sholes	527,545	Oct. 16	1429	347	69	294
Type-writing machine	J. P. Smith	527,083	Oct. 9	664	348	69	139
Type-writing machine	C. Spiro	529,208	Nov. 13	1229	162	69	888
Type-writing machine	C. F. Taylor	514,517	Feb. 13	903	296	66	1041
Type-writing machine	D. L. Tower	520,172	May 22	2173	529	67	983
Type-writing machine	A. T. Vigneron	524,290	Aug. 7	545	530	68	759
Type-writing machine	H. L. Wagner	523,698	July 31	2648	130	68	555
Type-writing machine	C. W. Walker	524,364	Aug. 14	698	656	68	805
Type-writing machine	G. B. Webb	520,586	May 29	2863	657	67	1129
Type-writing machine	L. Welspiel	516,384	Mar. 13	1069	658	66	1666
Type-writing machine	M. A. Wier	531,352	Dec. 25	2250	171	69	1671
Type-writing machine	J. N. Williams	523,028	July 17	1478	541	68	311
Type-writing machine	J. N. Williams	528,578	Nov. 6	93	348	69	663
Type-writing machine	T. F. Woodward	514,141	Feb. 6	262	64, 65	66	903
Type-writing machine	G. W. N. Yost	522,333	July 3	270	71	68	55
Type-writing-machine attachment	E. S. Barnett	513,976	Feb. 6	7	2	66	856
Type-writing-machine attachment	N. W. Hartwell and T. J. Howe	528,092	Oct. 23	2385	575	69	485
Type-writing-machine attachment	A. H. Merriman	525,916	Sept. 11	1044	237	68	1353
Type-writing-machine attachment for writing and translating messages in cipher.	R. Harte	527,112	Oct. 9	710	171	69	147
Type-writing machine. Dummy	W. P. Cosper	511,754	Jan. 2	22	6	66	7
Type-writing-machine key-cap	D. P. Wolhaupter	530,611	Dec. 11	957	235	69	1406
Type-writing-machine line-spacing device	C. W. Corey	523,623	July 24	2506	629	68	514
Type-writing machine. Pneumatic	W. Raab	522,491	July 3	536	136	68	106
Type-writing-machine ribbon-case	R. G. Hopkins	530,307	Dec. 4	406	102	69	1259
Type-writing machines. Attachment for rolls of paper to	G. L. Crittenden	530,929	Dec. 18	1480	350	69	1516
Type-writing machines. Cleaning attachment for	C. T. Thatcher	521,900	June 26	2038	491	67	1620
Type-writing machines. Impression-hammer for	W. H. Travis	513,343	Jan. 30	3032	747	66	706
Type-writing machines. Numeral adding or subtracting attachment for	J. D. Daugherty	517,735	Apr. 3	536	130	67	104
Type-writing machines. Ribbon-reversing mechanism for	C. E. Johnson	512,584	Jan. 9	1416	341	66	279
Type-writing machines. Ribbon-reversing mechanism for	C. E. Johnson	521,288	June 12	954	342	67	1383
Type-writing machines. Ribbon-reversing mechanism for	F. P. Stiles	521,091	June 5	607	143	67	1306
Type-writing machines. Type-bar hanger for	B. Kellogg	516,817	Mar. 20	1796	425	66	1818

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Type-writing machines. Type-cleaning brush for...	F. Van Fleet.....	528,215	Oct. 30	2604	628	69	539
Type-writing machines. Type-cleaning device for...	C. A. Joerissen.....	520,850	June 5	176	38	67	1229
Typograph.....	H. W. Libbey.....	520,238	May 22	2294	555	67	1003
Typographic machine.....	E. Werner.....	519,516	May 8	1034	251 252 253	67	747
Typographic machine and attachment.....	E. Werner.....	519,517	May 8	1050	253 254 255	67	751
Umbrella.....	W. D. Kimball.....	526,155	Sept. 18	1448	338	68	1439
Umbrella.....	W. Ross.....	529,629	Nov. 20	1978	471	69	1046
Umbrella.....	W. R. Tebow.....	530,805	Dec. 11	1279	309	69	1464
Umbrella.....	Z. Wirt.....	527,823	Oct. 23	1882	451 452	69	394
Umbrella-attaching device.....	T. B. Comins.....	520,135	May 22	2109	514	67	971
Umbrella-cover. Detachable.....	A. J. Robinson.....	512,903	Jan. 16	1987	471	66	403
Umbrella-cover. Detachable.....	A. J. Robinson.....	512,904	Jan. 16	1988	471	66	403
Umbrella-cover. Detachable.....	A. J. Robinson.....	512,905	Jan. 16	1990	472	66	404
Umbrella drip attachment.....	D. W. Whitaker.....	515,636	Feb. 27	2730	680	66	1412
Umbrella drip-cup.....	T. J. Golden.....	516,391	Mar. 13	1082	257	66	1669
Umbrella. Folding.....	R. H. Hatzfeld.....	529,170	Nov. 13	1162	279 280	69	878
Umbrella. Folding.....	C. Neidig.....	529,459	Nov. 20	1701	406	69	995
Umbrella. Folding.....	D. A. Smith, Jr.....	528,212	Oct. 30	2600	627	69	538
Umbrella-handle.....	J. Gilbert.....	526,184	Sept. 18	1498	351	68	1446
Umbrella holder and stand. Combination.....	J. F. Bartlett.....	518,581	Apr. 24	1987	491	67	409
Umbrella-holder. Portable.....	W. H. Hopkins.....	520,053	May 22	1944	476	67	943
Umbrella-lock.....	N. B. Whitfield.....	524,923	Aug. 21	1627	399	68	988
Umbrella-rib-locking device.....	F. W. T. Jedeck.....	522,016	June 26	2267	543	67	1660
Umbrella-rib-locking device.....	F. W. T. Jedeck.....	522,017	June 26	2268	544	67	1660
Umbrella-rib retainer.....	J. Forbes.....	529,255	Nov. 13	1317	316 317	69	905
Umbrella-runner retainer.....	S. S. Fretz and J. B. Jesson.....	530,037	Nov. 27	2696	647	69	1190
Umbrella. Self-closing.....	J. H. Sprague.....	521,828	June 26	1910	458	67	1594
Umbrella. Self-opening.....	H. W. Schoff, B. Finkel, and F. E. Probert.....	521,222	June 12	836	196	67	1362
Umbrella-spring.....	C. A. Price and S. S. Fretz.....	513,277	Jan. 23	2583	625	66	587
Umbrella-sticks. Machine for slotting.....	M. Gans.....	524,418	Aug. 14	797	195	68	824
Umbrella tie and name-plate. Combined.....	W. E. Murbarger.....	514,565	Feb. 13	982	249	66	1056
Umbrellas, &c. Flexible support for.....	W. J. Yapp.....	521,355	June 12	1084	254	67	1409
Umbrellas, &c. Holder for.....	A. H. Albershardt.....	523,953	July 31	3113	775	68	643
Umbrellas. Identification attachment for.....	H. D. Hamilton.....	525,415	Sept. 4	169	43	68	1182
Umbrellas, &c. Tip for.....	A. T. Lanbe.....	514,853	Feb. 13	1464	368	66	1148
Uncoupler and car-brake. Automatic.....	J. P. Dias.....	520,204	May 22	2228	542	67	994
Undergarment. Combination.....	J. Holmes.....	529,493	Nov. 20	1764	419	69	1006
Undershirt.....	L. Rubens.....	528,988	Nov. 13	856	203	69	823
Undertaker's trimming-table.....	W. Fitzgerald.....	525,979	Sept. 11	1147	261	68	1373
Underwaist.....	S. T. Converse.....	513,633	Jan. 30	3182	781	66	733
Underwaist.....	C. R. De Bevoise.....	521,403	June 12	1156	274	67	1423
Underwaist.....	F. Kern.....	530,692	Dec. 11	1100	267	69	1430
Unicycle.....	F. H. Armistead.....	514,612	Feb. 13	1067	267	66	1071
Unicycle.....	F. H. Armistead.....	531,086	Dec. 18	1758	419 420	69	1565
Unicycle.....	R. Hendrich.....	520,678	May 29	3027	733	67	1158
Unicycle.....	H. J. Sacksteder.....	521,673	June 19	1636	383	67	1526
Unloading apparatus.....	A. McDougall.....	523,940	July 31	3095	770	68	639
Unloading device.....	W. T. Flaniken.....	525,951	Sept. 11	1090	249	68	1361
Upholstery pendant or ornament.....	G. F. Hensel.....	521,370	June 12	1104	260	67	1413
Upholstery spring-support.....	J. T. Hanrahan.....	514,002	Feb. 6	45	11	66	863
Upholstery spring-support.....	J. A. Staples.....	516,030	Mar. 6	485	112	66	1542
Upper-folding machine.....	C. E. Williams.....	513,852	Jan. 30	3534	669 870	66	801
Urinal.....	A. Sahlstrom.....	525,925	Sept. 11	1058	240	68	1355
Urinal.....	J. Tucker.....	524,150	Aug. 7	318	74, 75	68	720
Urinal.....	F. Wallace.....	512,592	Jan. 9	1430	345	66	281
Urinal. Ventilated.....	F. P. Smith.....	519,355	May 8	772	189	67	700
Urn. Compartment.....	A. W. Meyer.....	516,938	Mar. 20	1999	471	66	1857
Uterus-battery.....	C. S. W. Hinkley.....	520,206	May 22	2230	542	67	994
Vacuum apparatus.....	R. P. Ashwell and J. A. Vandegrift.....	512,789	Jan. 16	1786	424	66	365
Vacuum-brake.....	W. L. Fitzhugh.....	517,819	Apr. 3	669	167	67	130
Vacuum-breaker.....	T. M. Eynon.....	513,903	Jan. 30	3611	590	66	*16
Vacuum-creating apparatus.....	W. F. M. McCarty.....	522,848	July 10	1155	286	68	234
Vacuum-pan.....	C. W. Cooper.....	521,974	June 26	2180	523 524	67	1645
Valises, &c. Attachment for.....	A. H. Albershardt.....	523,503	July 24	2316	583	68	478
Valve.....	C. S. Bavier.....	529,692	Nov. 27	2086	499	69	1076
Valve.....	C. Birkery.....	515,703	Feb. 27	2847	709	66	1435
Valve.....	C. Birkery.....	530,633	Dec. 11	996	245	69	1413
Valve.....	J. A. Blair.....	526,176	Sept. 18	1481	346	68	1445
Valve.....	J. A. Blair.....	526,177	Sept. 18	1482	346	68	1445
Valve.....	H. H. Burritt.....	515,514	Feb. 27	2534	628	66	1373
Valve.....	L. D. Castle.....	530,393	Dec. 4	558	138	69	1317
Valve.....	J. A. Cattanaach.....	517,093	Mar. 27	2288	539	66	1928
Valve.....	F. E. Claffey.....	520,203	May 22	2297	541	67	993
Valve.....	F. L. Decario.....	524,134	Aug. 7	286	67	68	714
Valve.....	R. M. Dixon.....	525,680	Sept. 4	602	144	68	1361
Valve.....	R. B. Fowler.....	528,933	Nov. 13	763	180	69	806
Valve.....	J. Frye.....	523,855	July 31	2935	731	68	609
Valve.....	K. N. Harboe.....	527,261	Oct. 9	851	207	69	174
Valve.....	F. W. Hess.....	521,027	June 5	485	116	67	1324
Valve.....	L. J. Hirt.....	513,234	Jan. 23	2500	604	66	571
Valve.....	J. F. Ives and F. B. Colman.....	515,290	Feb. 20	2107	532	66	1293
Valve.....	G. W. Knapp and J. V. Chamberlin.....	517,575	Apr. 3	261	60	67	51
Valve.....	D. McCormack.....	517,056	Mar. 27	2234	527	66	1915

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Valve.....	G. Oliver.....	521,040	June 5	518	122	67	1291
Valve.....	G. H. F. Schrader and H. P. Kraft.....	531,392	Dec. 25	2322	554	69	1685
Valve.....	J. E. Stannard.....	517,199	Mar. 27	2466	580	66	1963
Valve.....	G. W. Van Tine.....	527,351	Oct. 9	1157	254	69	230
Valve.....	J. Victor.....	529,051	Nov. 13	959	227	69	840
Valve.....	J. Walsh, Jr.....	524,922	Aug. 21	1627	399	63	987
Valve.....	T. H. Williams and N. R. Marvin.....	523,718	July 31	2692	667	68	563
Valve. Air.....	D. R. Berry.....	517,184	Mar. 27	2445	575	66	1959
Valve. Air and gas meter.....	J. Shearman.....	519,481	May 8	980	237	67	737
Valve. Air-brake.....	J. F. Voorhees.....	521,996	June 26	2234	537	67	1654
Valve. Air-compressor.....	W. A. Heath.....	527,787	Oct. 23	1833	441	69	385
Valve and joint.....	C. S. Bavie.....	517,914	Apr. 10	817	205	67	172
Valve and muffler. Pop safety.....	E. B. Kunkle.....	524,208	Aug. 7	414	98	68	737
Valve and regulator. Reducing-pressure.....	E. J. Wood.....	527,575	Oct. 16	1460	300	69	303
Valve and steam-chest for engines.....	E. W. Harden.....	527,330	Oct. 9	1072	{ 258 259 }	69	213
Valve and steam-trap. Automatic drain.....	F. Lamplough.....	515,294	Feb. 20	2173	{ 539 540 }	66	1294
Valve. Automatic air.....	J. R. Pidcock.....	512,660	Jan. 9	1544	370	66	304
Valve. Automatic air-brake.....	H. M. Lofton.....	514,153	Feb. 6	292	71	66	908
Valve. Automatic balanced steam-regulating.....	C. C. Puffer and M. Warren.....	512,748	Jan. 16	1696	406	66	347
Valve. Automatic brake.....	A. P. Massey.....	523,773	July 31	2784	691	68	580
Valve. Automatic check.....	J. H. Dousman.....	531,304	Dec. 25	2168	518	69	1655
Valve. Automatic exhaust relief.....	G. de Laval.....	521,030	June 5	493	117	67	1286
Valve. Automatic relief.....	F. Schreidt.....	525,629	Sept. 4	112	123	68	1247
Valve. Automatic ventilating.....	W. W. Varney.....	525,720	Sept. 11	712	{ 164 165 }	68	1294
Valve. Balanced.....	J. A. Bourgeat.....	523,969	Aug. 7	4	1, 2	68	663
Valve. Balanced check.....	T. M. Eynon.....	515,578	Feb. 27	2642	656	66	1395
Valve. Balanced piston.....	J. A. Smith.....	530,559	Dec. 11	871	215	69	1390
Valve. Balanced slide.....	G. Cook.....	527,141	Oct. 9	761	186	69	156
Valve. Balanced slide.....	A. F. Keily.....	513,938	Jan. 30	3659	902	66	825
Valve. Balanced slide.....	E. Lloyd.....	513,119	Jan. 23	2323	560	66	536
Valve. Balanced steam-actuated.....	W. F. Browne.....	531,434	Dec. 25	2388	571	69	1698
Valve. Ball-cock.....	W. A. Turner.....	520,148	May 22	2130	520	67	976
Valve. Ball-cock.....	W. A. Turner.....	520,149	May 22	2132	520	67	976
Valve. Ball-cock.....	W. A. Turner.....	520,150	May 22	2134	520	67	976
Valve. Ball-cock.....	W. A. Turner.....	521,350	June 12	1075	552	67	1407
Valve-base. Pneumatic.....	J. F. Ives.....	525,709	Sept. 11	679	157	68	1288
Valve-bodies. Seating.....	F. H. Richards.....	516,658	Mar. 20	1543	367	66	1773
Valve-body.....	F. H. Richards.....	515,364	Feb. 27	2301	{ 571 572 }	66	1330
Valve. Brake-cylinder pressure graduating and maintaining triple.....	J. A. Steininger.....	517,895	Apr. 10	781	195	67	165
Valve. Center.....	C. Bahret.....	518,172	Apr. 10	1256	{ 316 317 }	67	245
Valve. Check.....	A. J. Caldwell.....	528,360	Oct. 30	2853	691	69	585
Valve. Check.....	W. E. Hill.....	516,532	Mar. 13	1325	315	66	1715
Valve. Check.....	N. J. Pritchard.....	529,667	Nov. 20	2043	490	69	1058
Valve. Check.....	L. Schutte.....	516,407	Mar. 13	1106	263	66	1674
Valve. Check.....	L. Schutte.....	524,048	Aug. 7	127	29	66	686
Valve. Check.....	L. Schutte.....	524,049	Aug. 7	129	30	68	686
Valve. Check.....	J. F. Tinley.....	514,098	Feb. 6	193	44	66	891
Valve-controller. Electric.....	C. E. Ongley.....	512,316	Jan. 9	963	237	66	196
Valve-controlling mechanism.....	L. H. Reynolds.....	512,651	Apr. 24	2098	{ 523 524 }	67	428
Valve. Cylinder relief.....	B. T. Reilly.....	530,853	Dec. 11	1356	393	69	1477
Valve device.....	W. A. Drewett.....	518,026	Apr. 10	1016	256	67	204
Valve device.....	J. Reichmann.....	517,589	Apr. 3	283	66	67	56
Valve device.....	C. H. Waters.....	519,052	May 1	183	43	67	572
Valve device for duplex engines.....	W. A. Drewett.....	518,025	Apr. 10	1014	255	67	203
Valve drain-cup.....	W. K. Conness.....	525,535	Sept. 4	360	88	68	1218
Valve. Engine.....	W. H. Jenks.....	517,863	Apr. 10	730	184	67	155
Valve. Engine exhaust.....	L. H. Wattles.....	526,761	Oct. 2	156	37	69	14
Valve. Engine reversing.....	T. B. Headen.....	526,707	Oct. 2	62	16	69	30
Valve. Engineer's.....	W. A. Thacher.....	521,425	June 12	1192	283	67	1429
Valve. Engineer's.....	W. C. Whitacre.....	524,154	Aug. 7	322	76	68	721
Valve. Engineer's brake.....	D. L. Barnes.....	525,523	Nov. 6	4	2	69	647
Valve. Engineer's brake.....	L. E. Howard.....	529,937	July 31	3085	768	68	638
Valve-facing tool.....	T. Draper.....	530,167	Dec. 4	152	40	69	1243
Valve. Float.....	D. D. Buick.....	529,243	Nov. 13	1289	310	69	899
Valve. Float.....	T. J. Rayner.....	527,346	Oct. 9	1095	267	69	218
Valve. Fluid-brake.....	H. Tahot.....	518,289	Apr. 17	1470	368	67	302
Valve for air-brakes. Automatic pressure-retaining.....	O. S. Pike.....	529,137	Nov. 13	1100	266	69	867
Valve for air-brakes. Automatic safety relief.....	J. Coppersmith.....	527,143	Oct. 9	765	187	69	157
Valve for air-brakes. Releasing.....	J. G. Sarvent.....	518,199	Apr. 10	1320	330	67	258
Valve for air-brakes. Triple.....	H. M. Lofton.....	519,679	May 8	1329	321	67	800
Valve for atomizers. Heel.....	J. Hardman, Jr.....	527,974	Oct. 23	2177	523	69	447
Valve for compound direct-acting engines. Steam-actuated.....	H. C. Sergeant.....	525,801	Sept. 11	836	190	68	1316
Valve for compressed-air brakes. Controlling and discharge.....	F. A. Holleman.....	527,455	Oct. 23	1952	{ 468 469 }	69	406
Valve for compressor and blowing engines.....	J. E. Garis and H. J. Welch.....	512,369	Jan. 9	1055	258	66	210
Valve for condensers. Water-regulating.....	W. F. Garrison.....	519,083	May 1	248	58	67	583
Valve for expansion-cylinders of vapor-compression engines.....	E. Riegelmann.....	521,731	June 19	1735	412	67	1346
Valve for fluid-pressure brake systems. Triple.....	J. Soncek.....	518,705	Apr. 24	2199	549	67	446
Valve for gas-burners. Air.....	H. Ruppel.....	528,344	Oct. 30	2821	682	69	578
Valve for gas-saving regulators.....	J. C. Richardson.....	515,908	Mar. 6	372	88	66	1522
Valve for high-pressure gases and fluids. Buffer.....	A. Mueller.....	531,053	Dec. 18	1701	404	69	1555
Valve for hydraulic pressure. Controlling.....	A. Kampf.....	518,149	Apr. 10	1214	{ 304 305 }	67	237
Valve for oil-wells. Check.....	E. Evans.....	523,629	July 24	2517	631	68	516
Valve for percussion rock-drills.....	A. W. and Z. W. Daw.....	531,587	Dec. 25	2661	{ 638 639 }	69	1751

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Valve for regulating the outflow of liquids	P. Erichsen	514,352	Feb. 6	638	163	66	973
Valve for steam-engines. Main slide-valve and throttle.	J. P. Devoissaud	530,400	Dec. 4	568	141	69	1319
Valve for steam-engines. Rotary	F. Lester	526,040	Sept. 18	1250	289	68	1404
Valve for steam-engines. Vacuum or hand-actuated by-pass	J. M. Searle	524,614	Aug. 14	1115	274 275	68	883
Valve for water-gages. Automatic safety.	G. S. Neely	524,393	Aug. 14	753	184	68	816
Valve for water-gages. Ball.	G. H. Wall	521,530	June 19	1402	334	67	1453
Valve for water pipes or mains. Stop.	I. N. and J. H. Glauber. (Reissue).	11,431	July 10	1344	334	68	271
Valve for water, steam, or other liquids or gases	W. Thomson	522,170	June 26	2519	605	67	1708
Valve. Gate.	L. S. Wheaton	526,797	Oct. 2	211	51	69	40
Valve-gear	W. F. Cole	525,693	Sept. 11	644	151	63	1282
Valve-gear	J. Fielding	518,593	Apr. 24	2003	496 497	67	412
Valve-gear	J. Grime	512,956	Jan. 16	2081	493	66	419
Valve-gear	F. W. Hagar	527,691	Oct. 16	1670	402 403	69	338
Valve-gear	G. Jalsowiczky	527,063	Oct. 9	638	155	69	134
Valve-gear	J. W. Sargent	516,634	Mar. 13	1492	355	66	1747
Valve-gear	J. W. Sargent and R. H. Rice	526,267	Sept. 18	1636	385	68	1475
Valve-gear	J. Spencer	514,783	Feb. 13	1351	337	66	1125
Valve-gear. Engine	R. M. Fryer	527,679	Oct. 16	1647	397 398	69	334
Valve-gear for direct-acting engines	H. C. Sergeant	520,190	May 22	2204	536 537	67	989
Valve-gear for duplex direct-acting engines	H. W. Morley and T. Holehouse	516,896	Mar. 20	1926	454 455	66	1844
Valve-gear. Gas-engine	B. H. Coffey	517,541	Apr. 3	200	46, 47	67	40
Valve-gear. Steam-engine	H. W. Armstrong	528,757	Nov. 6	413	100	69	722
Valve-gear. Steam-engine	W. F. Brown	524,306	Aug. 14	575	136 137	68	785
Valve-gear. Steam-engine	L. O. Burk	531,096	Dec. 18	1777	424	69	1568
Valve-gear. Steam-engine	M. B. Cope	531,409	Dec. 25	2346	559 560	69	1690
Valve-gear. Steam-engine	J. Dahlström	511,836	Jan. 2	140	36	66	30
Valve-gear. Steam-engine	A. Nicholson	514,024	Feb. 6	76	20	66	868
Valve. Globe	H. R. Frisbie	530,478	Dec. 4	690	172	69	1341
Valve. Hydrant	C. H. Watson	518,475	Apr. 17	1808	447	67	363
Valve. Hydraulic	T. H. Lee	524,721	Aug. 21	1296	317	68	928
Valve. Hydraulic	E. S. Matthews	519,638	May 8	1264	305	67	789
Valve. Hydraulic	E. S. Matthews	519,639	May 8	1270	305	67	789
Valve. Hydraulic-elevator	W. Warner	512,773	Jan. 16	1764	419	66	361
Valve. Hydraulic-pressure-reducing	W. H. Wood	512,142	Jan. 2	682	164	66	131
Valve. Intercepting	B. B. Carter	513,064	Jan. 23	2259	546	66	522
Valve mechanism	D. A. Decrow	526,484	Sept. 25	2044	486 487	68	1564
Valve mechanism	J. Kelly	522,324	July 3	254	67, 68	68	51
Valve mechanism	W. B. Mason	522,071	June 26	2349	565	67	1676
Valve mechanism	E. Reynolds	522,304	July 3	224	60	68	45
Valve mechanism. Blowing-engine	E. Reynolds	522,273	July 3	179	49	68	37
Valve mechanism. Engine	G. I. Rockwood	523,999	Aug. 7	54	12, 13	63	671
Valve mechanism. Engine	C. Schmid	528,742	Nov. 6	378	92	69	715
Valve mechanism for air-brakes. Quick-action	T. J. Hogan	519,908	May 15	1699	415	67	883
Valve mechanism for compound engines	E. W. Harden	512,192	Jan. 2	770	187 188	66	146
Valve mechanism for compound engines. Combined starting and drip	S. M. Vauclain and K. Rushton	515,725	Feb. 27	2878	718 719	66	1441
Valve mechanism for hydraulic elevators	W. F. Cole	526,146	Sept. 18	1433	335	68	1437
Valve mechanism for lavatory apparatus	J. W. Hale	524,969	Aug. 21	1748	427	68	1011
Valve mechanism for liquid-receptacles	F. C. Wilson	523,094	July 17	1570	394	68	328
Valvemechanism for water-heaters. Automatic gas.	J. Winterlood	519,141	Jan. 2	651	163	66	130
Valve mechanism. Rock-drill.	R. L. Ambrose	518,212	Apr. 17	1347	336	67	279
Valve-motion	F. Lamplough	524,967	Aug. 21	1698	416	68	1000
Valve. Oil	G. H. Perkins	519,306	May 1	663	151	67	665
Valve. Oil-can	C. Wagner	529,221	Nov. 13	1251	301	69	893
Valve. Oil-well shut-off	E. Evans	530,405	Dec. 4	576	143	69	1320
Valve-operating device	C. Otis	528,365	Oct. 30	2895	701	69	591
Valve-operating mechanism	J. J. Moore	517,807	Apr. 3	654	164	67	127
Valve-operating mechanism	J. W. Ogden	515,247	Feb. 20	2088	518	66	1277
Valve-operating mechanism	A. Thomlinson	512,570	Jan. 9	1395	339	66	275
Valve. Piston	S. O. Jones	525,462	Sept. 4	245	60	68	1196
Valve. Plug	C. B. Hodges and J. C. Wills	516,534	Mar. 13	1327	316	66	1715
Valve. Pressure-reducing	G. M. Davis	518,000	Apr. 10	980	244	67	197
Valve. Pressure-regulating	J. Nageldinger	519,089	May 1	256	61	67	585
Valve. Pressure-regulating	J. Nageldinger	520,268	May 22	2337	567	67	1014
Valve. Quick-action triple	H. H. Westinghouse	518,929	Apr. 24	2580	638	67	516
Valve-reseating machine	W. Brunner	525,441	Sept. 4	212	52	68	1190
Valve rod. Slide	J. H. Shephard	519,458	May 8	934	225	67	731
Valve. Rotary	H. V. Loss	523,077	July 17	1541	326	68	323
Valve. Safety	M. McNeil and R. Kohlhepp	525,963	Sept. 11	1126	256	68	1369
Valve. Safety check	J. M. Foster	525,196	Aug. 28	2133	520	68	1094
Valve-seating tool	H. O. Sabin	514,687	Feb. 13	1188	296	66	1095
Valve-setting lever	F. W. Harden	529,264	Nov. 13	1330	319	69	907
Valve. Siphon	F. Booth	529,584	Nov. 20	1918	457	69	1935
Valve. Slide	E. Heydo	521,653	June 19	1603	376	67	1320
Valve. Slide	F. H. Morel	524,180	Aug. 7	360	85	68	727
Valve. Sluice	W. A. Doble	521,106	June 5	631	149	67	1311
Valve. Steam	R. M. Fryer	528,537	Nov. 6	20	7	69	650
Valve. Steam-actuated	J. B. Gorrell	519,706	May 15	1380	332	67	823
Valve. Steam-actuated	J. J. Kwis	518,846	Apr. 24	2434	603	67	488
Valve. Steam-actuated	T. J. Piers	514,962	Feb. 20	1629	408	66	1193
Valve. Steam-actuated	G. L. Weller	519,826	May 15	1569	324	67	559
Valve. Steam-cylinder	L. Bondreaux	530,503	Dec. 11	759	186	69	1371
Valve. Steam-engine	A. F. Devereux	528,123	Oct. 23	2441	590	69	495
Valve. Steam-engine	E. L. Sauer	529,841	Nov. 27	2341	557	69	1122

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Valve. Steam-engine.....	W. G. Shepherd.....	514,509	Feb. 13	894	{ 227 228 }	66	1039
Valve. Steam-engine.....	W. G. Shepherd.....	526,847	Oct. 2	289	70	69	55
Valve. Steam-engine distribution.....	J. Thom.....	514,392	Feb. 6	636	{ 175 176 }	66	984
Valve. Steam-engine slide.....	F. P. Malone.....	521,592	June 19	1505	353	67	1501
Valve. Stop.....	L. Schutte.....	529,879	Nov. 27	2401	574	69	1134
Valve. Straightway.....	J. M. Coale.....	514,180	Feb. 6	339	81	66	917
Valve. Straightway.....	G. J. Graebert.....	516,200	Mar. 13	765	179	66	1611
Valve. Straightway.....	E. H. Lunken.....	523,537	July 24	2368	594	68	489
Valve. Straightway.....	J. T. Paget.....	529,302	Nov. 13	1404	{ 336 337 }	69	922
Valve. Syringe.....	H. D. Taggart.....	528,701	Nov. 6	319	78	69	704
Valve. Tank flushing.....	J. J. Berry.....	522,397	July 3	390	100	68	77
Valve. Tank-regulating.....	E. W. Long.....	529,739	Nov. 27	2165	516	69	1088
Valve. Tank supply.....	J. J. Berry.....	522,644	July 10	807	201	68	172
Valve. Thermostatic.....	A. M. Butz.....	525,330	Sept. 4	10	2	68	1153
Valve. Throttle.....	B. Clark.....	519,665	May 8	1308	312	67	796
Valve. Triple.....	W. C. Whitacre.....	512,241	Jan. 2	844	{ 204 205 }	66	160
Valve. Water-gage safety.....	J. Ruddy.....	531,387	Dec. 25	2516	552	69	1684
Valves. Apparatus for refitting stop.....	C. F. Hall.....	513,392	Jan. 23	2757	672	66	620
Valves, &c. Automatic regulator for.....	E. H. C. Oehlmann.....	515,787	Mar. 6	99	23	66	1472
Valves for air-brake hose-couplings. Device for open- ing or closing.....	E. Bearss.....	512,935	Jan. 16	2042	{ 483 484 }	66	412
Valves for fluid-pressure brakes. Device for operat- ing.....	J. H. Fox.....	513,676	Jan. 30	3257	800	66	747
Valves in air-brake couplings. Device for automati- cally opening.....	C. F. Bane.....	514,405	Feb. 6	715	181	66	988
Valves. Machine for reaming and tapping.....	L. D. Castle.....	512,155	Jan. 2	715	{ 173 174 }	66	137
Valves of steam-engines. Actuating.....	A. Décombe and P. Lamena.....	525,005	Aug. 28	1790	437	68	1034
Valves of steam-engines. Eccentric for operating.....	J. W. Sargent.....	516,633	Mar. 13	1491	354	66	1746
Valves, &c. Sealing device for.....	G. A. Tower.....	516,851	Mar. 20	1853	438	66	1830
Valves. Tool for applying or removing renewable seats in straightway.....	E. H. Lunken.....	513,121	Jan. 23	2326	{ 560 561 }	66	536
Valved can.....	C. E. White.....	513,256	Jan. 23	2548	613	66	580
Vamps to nppers. Machine for pasting.....	H. Fischer.....	520,590	May 29	2870	{ 694 695 }	67	1130
Vane. Electrically-operated wind.....	L. Bradley.....	525,000	Aug. 28	1782	435	68	1033
Vanillin. Making.....	J. Bertram.....	519,693	May 15	1358		67	819
Vapor-burner.....	G. W. Billings.....	519,830	May 15	1576	{ 385 386 }	67	860
Vapor-burner.....	M. E. Company.....	525,331	Sept. 4	12	2	68	1153
Vapor-burner.....	J. A. Chandler.....	515,422	Feb. 27	2402	{ 595 596 }	66	1348
Vapor-burner.....	J. A. Chandler.....	515,423	Feb. 27	2405	596	66	1348
Vapor-burner.....	J. A. Chandler.....	515,424	Feb. 27	2407	596	66	1349
Vapor-burner.....	C. H. Childs.....	523,303	July 17	1953	492	68	398
Vapor-burner.....	P. J. Fitzgerald.....	523,766	July 31	2771	{ 687 688 }	68	578
Vapor-burner.....	S. E. Folk.....	513,909	Jan. 30	3617	{ 891 892 }	66	817
Vapor-burner.....	E. Kells.....	523,641	July 24	2536	636	68	520
Vapor-burner.....	J. A. Lannert, W. R. Jeavons, and W. H. Wilder.....	517,048	Mar. 27	2205	522	66	1912
Vapor-burner.....	W. M. Lockhart.....	513,694	Apr. 24	2175	544	67	443
Vapor-burner.....	E. G. Mummery.....	530,705	Dec. 11	1119	272	69	1433
Vapor-burner.....	E. I. Nichols.....	519,819	May 15	1557	381	67	857
Vapor-burner.....	H. Ruppel.....	520,805	June 5	81	18	67	1213
Vapor-burner.....	W. H. Wilder, E. A. Thissell, J. A. Lannert, and W. R. Jeavons.....	525,038	Aug. 28	1852	452	68	1046
Vapor-burner.....	J. S. Wood.....	515,984	Mar. 6	407	94	66	1528
Vapor-burner. Multiplex.....	R. E. and W. S. Olds.....	521,622	June 19	1555	363	67	1510
Vapor-burning apparatus.....	A. J. Lindemann.....	525,350	Sept. 4	45	12	68	1159
Vapor engine. Combustible.....	R. B. Hain.....	531,182	Dec. 18	1938	461	69	1598
Vapor face-bath.....	H. H. Hoge.....	527,758	Oct. 16	1778	428	69	358
Vapor motor. Ether.....	P. de Susini.....	514,573	Feb. 13	995	251	66	1058
Vaporizer.....	W. M. Kellogg.....	514,422	Feb. 6	735	187	66	992
Vaporizer.....	H. Wilkinson.....	513,663	Jan. 30	3238	795	66	742
Vaporizer and burner. Oil.....	E. B. Raymond.....	514,870	Feb. 13	1486	373	66	1152
Vaporizer for hydrocarbon-motors.....	J. H. Knight.....	518,151	Apr. 10	1217	305	67	238
Vaporizing apparatus for the complexion. Toilet.....	B. R. Owens.....	515,607	Feb. 27	2687	{ 667 668 }	66	1404
Vaporizing petroleum or other liquids. Apparatus for.....	S. C. Peuchen.....	531,560	Dec. 25	2616	626	69	1742
Vat: See Brewing-vat. Dyer's vat.							
Vault cover. Metallic burial.....	W. Eckels.....	527,238	Oct. 9	918	221	69	186
Vault-cover. Ventilating.....	J. Jacobs.....	518,888	Apr. 24	2512	{ 621 622 }	67	503
Vault-cover. Ventilating and illuminating.....	H. Hausteine.....	512,440	Jan. 9	1196	290	66	238
Vault. Garbage.....	W. Ostermeyer.....	525,616	Sept. 4	494	119	68	1243
Vault. Grave.....	J. D. Barcus.....	530,380	Dec. 4	539	134	69	1313
Vault-light trimmer.....	P. Schwickart.....	520,273	May 22	2346	569	67	1015
Vegetable-cutter.....	M. Josephson.....	525,499	Sept. 4	300	73	68	1207
Vegetable-cutter.....	J. Roslosnik.....	519,095	May 1	268	63	67	587
Vegetable-cutter.....	D. M. Wright.....	521,279	June 12	932	220	67	1379
Vegetables from night frosts. Protecting growing.....	S. Lemström.....	525,989	Sept. 11	1162	264	68	1375
Vegetation. Means for promoting.....	S. Lemström.....	525,988	Sept. 11	1160	264	68	1375
Vehicle.....	J. W. Cleary.....	527,666	Oct. 16	1625	{ 391 392 }	69	330
Vehicle.....	L. W. Hampton.....	527,053	Oct. 9	632	154	69	133
Vehicle.....	J. Johnston.....	520,961	June 5	378	92	67	1266

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & G.	Vol.	Page.
Vehicle	D. D. Price and R. J. Daniels.	520,830	June 5	136	30	67	1222
Vehicle	J. Ridge	530,552	Dec. 11	858	{ 211 212	69	1388
Vehicle	C. W. Smart	512,759	Jan. 16	1738	{ 412 413	66	356
Vehicle	C. H. Stratton	517,988	Apr. 10	956	{ 238 239	67	193
Vehicle	C. W. Wilbor	527,470	Oct. 16	1312	320	69	274
Vehicle	F. W. Zimmer	518,983	May 1	77	20	67	550
Vehicle band-brake	J. S. Copeland	516,986	Mar. 20	2079	492	66	1872
Vehicle-body	E. I. Tennant	530,977	Dec. 18	1569	372	69	1530
Vehicle-body	J. J. Vollrath	520,136	May 22	2071	505	67	966
Vehicle-body	C. H. Vorhes	511,825	Jan. 2	121	29	66	26
Vehicle brace and brake-support combined	B. F. Sweet	516,283	Mar. 13	896	211	66	1037
Vehicle-brake	M. A. Davidson and F. R. Lock	514,446	Feb. 13	775	199	66	1017
Vehicle-brake	J. des Georges	529,785	Nov. 27	2235	533	69	1102
Vehicle-brake	D. Haven	512,249	Jan. 2	857	207	66	162
Vehicle-brake	E. Hays	513,394	Jan. 23	2760	673	66	620
Vehicle-brake	J. C. F. Hurst	521,588	June 19	1499	351	67	1500
Vehicle-brake	W. T. Lineback	521,934	June 26	2105	505	67	1632
Vehicle-brake	D. L. Miller	523,480	July 24	2272	571	68	470
Vehicle-brake	C. Sample	521,389	June 12	1130	{ 266 267	67	1418
Vehicle-brake	B. F. and W. H. Rickard and S. S. Miller.	529,668	Nov. 20	2045	490	69	1058
Vehicle-brake	J. F. Shepard	518,928	Apr. 24	2579	638	67	516
Vehicle-brake	B. Wilcox	529,767	Nov. 27	2208	{ 526 527	69	1097
Vehicle-brake. Automatic	H. L. Bailey	517,996	Apr. 10	972	242	67	196
Vehicle-brake. Automatic	J. A. Mounce and D. L. Delaney	528,605	Nov. 6	142	35	69	672
Vehicle-brake. Side-bar	T. H. Carter	521,459	June 19	1274	297	67	1460
Vehicle-cover and support therefor	J. H. Ran	518,376	Apr. 17	1645	406	67	333
Vehicle-door	C. A. Wright	529,226	Nov. 13	1260	304	69	894
Vehicle draw-bar	R. Whalon	531,454	Dec. 25	2442	581	69	1708
Vehicle. Electrically-propelled	J. H. Rogers and W. Fracker	512,327	Jan. 9	983	241	66	198
Vehicle for spreading sand	A. Ladamme	525,768	Sept. 11	776	180	68	1306
Vehicle-gear	J. M. Bromley	523,066	July 17	1529	382	68	320
Vehicle-gear	F. J. Buff	522,401	July 3	394	101	68	78
Vehicle-gearing	G. F. Thompson	514,892	Feb. 13	1525	382	66	1159
Vehicle mud-guard	R. A. Day	529,368	Nov. 20	1520	364	69	964
Vehicle oscillating device	E. M. Crane	513,765	Jan. 30	3399	638	66	773
Vehicle. Pneumatic	A. C. Rand	530,550	Dec. 11	854	211	69	1337
Vehicle. Power-driven	W. P. Farrell	513,773	Jan. 30	3408	841	66	775
Vehicle runner attachment. Wheeled	S. C. Schofield	520,806	June 5	83	19	67	1213
Vehicle running-gear	D. A. Foster	518,809	Apr. 24	2383	{ 589 590	67	479
Vehicle running-gear	J. F. Fry	516,567	Mar. 13	1381	328	66	1726
Vehicle running-gear	C. A. Warren	512,775	Jan. 16	1768	420	66	362
Vehicle. Safety	W. J. Channell	526,664	Sept. 25	2329	557	68	1617
Vehicle-seat	C. M. Kellogg	513,939	Jan. 30	3660	902	66	825
Vehicle-seat	J. M. McHenry	517,526	Apr. 3	179	40	67	36
Vehicle-seat corner-iron	C. C. Field	526,223	Sept. 18	1572	369	68	1462
Vehicle-seats. Device for supporting	E. Selen	531,339	Dec. 25	2228	532	69	1666
Vehicle shifting seat	C. C. Bradley and T. Faulder	519,832	May 15	1578	386	67	861
Vehicle shifting seat	G. E. W. Stivers	530,608	Dec. 11	952	234	69	1405
Vehicle shipping-cover	F. G. Davis	527,833	Oct. 23	1900	456	69	397
Vehicle-spring	G. T. Chapman	512,501	Jan. 9	1300	313	66	257
Vehicle-spring	G. T. Chapman	512,502	Jan. 9	1301	313	66	257
Vehicle-spring	G. Penn	530,649	Dec. 11	1032	251	69	1418
Vehicle spring and axle attachment	W. Beckert	520,476	May 29	2678	647	67	1024
Vehicle spring-shackle	H. C. Swan	526,506	Sept. 25	2075	494	68	1571
Vehicle starter or brake	H. Carmont	514,812	Feb. 13	1391	350	66	1134
Vehicle storm-apron	J. F. Tanbman	513,427	Jan. 23	2802	687	66	629
Vehicle-top	F. Buob	514,347	Feb. 6	631	162	66	971
Vehicle-top	C. Rugger	511,909	Jan. 2	310	72	66	60
Vehicle-top	E. D. Stevenson	513,739	Jan. 30	3362	829	66	766
Vehicle-top. Folding	S. E. Kierolf	513,578	Jan. 30	3092	{ 760 761	66	718
Vehicle. Two-wheeled	A. G. Howland	512,824	Jan. 16	1849	438	66	377
Vehicle. Two-wheeled	J. A. Johnson	520,927	June 5	332	80.81	67	1257
Vehicle. Two-wheeled	W. F. Valentine	526,952	Oct. 2	466	115	69	88
Vehicle-warming device	J. Broderick	523,567	July 24	2412	604	68	497
Vehicle-wheel	A. M. Allen	516,149	Mar. 6	668	156	66	1578
Vehicle-wheel	C. L. Ames	521,692	June 19	1671	392	67	1533
Vehicle-wheel	E. C. F. Becker	528,917	Nov. 13	739	173	69	802
Vehicle-wheel	T. B. Blosser and J. P. Kunkle	529,474	Nov. 20	1724	411	69	999
Vehicle-wheel	W. Bonnar	516,072	Mar. 6	549	128	66	1555
Vehicle-wheel	G. S. Crosby	515,518	Feb. 27	2543	631	66	1376
Vehicle-wheel	W. H. Dettler	515,904	Mar. 6	270	63	66	1504
Vehicle-wheel	W. Doig	524,059	Aug. 7	151	34	68	690
Vehicle-wheel	F. A. Finch	518,881	Apr. 24	2490	617	67	499
Vehicle-wheel	C. von der Heyde	531,311	Dec. 25	2178	521	69	1657
Vehicle-wheel	F. and T. F. Mendenhall	528,376	Oct. 30	2876	697	69	589
Vehicle-wheel	F. Myers	528,887	Nov. 6	664	160	69	768
Vehicle-wheel	H. N. Parker	519,388	May 8	832	202	67	712
Vehicle-wheel	N. D. Penoyer	523,051	July 17	1504	377	68	317
Vehicle-wheel	E. G. Schleicher	527,727	Oct. 16	1724	416	69	348
Vehicle-wheel	A. L. Schmidt	514,562	Feb. 13	882	224	66	1037
Vehicle-wheel	W. W. Valentine	517,201	Mar. 27	2468	581	66	1964
Vehicle-wheel	C. K. Welch	522,813	July 10	1108	274	68	225
Vehicle-wheel	R. O. Wood	515,456	Feb. 27	2450	607	66	1357
Vehicle-wheel	M. C. Yarwood	515,392	Feb. 27	2349	583	66	1330
Vehicle wheel. Child's	G. Laube	514,858	Feb. 13	1468	369	66	1149
Vehicle-wheel. Metallic	C. S. Cannou	517,791	Apr. 3	628	157	67	122

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Vehicle wheel. Road-.....	H. Moore.....	529,077	Nov. 13	1004	{ 242 243 }	69	848
Vehicle. Wheeled.....	C. E. Wnuek.....	529,225	Nov. 13	1259	303	69	894
Vehicle-wrench.....	G. B. Martin.....	515,436	Feb. 27	2423	600	66	1352
Vehicles. Child's seat for.....	T. B. Padgett.....	519,731	May 15	1418	342	67	830
Vehicles. Elastic storm-apron for.....	W. M. Blanchard.....	519,564	May 8	1137	273	67	766
Vehicles. Electric operating mechanism for.....	L. E. Freedley.....	518,781	Apr. 24	2332	{ 578 579 }	67	470
Vehicles. Means for connecting draft-animals to.....	T. H. Brigg.....	517,640	Apr. 3	370	87, 88	67	72
Vehicles. Means for connecting draft-animals to.....	T. H. Brigg.....	517,641	Apr. 3	372	88, 89	67	73
Vehicles. Runner attachment for.....	W. J. Le Barron.....	529,922	Nov. 27	2468	{ 594 595 }	69	1146
Vehicles. Top box or rack attachment for.....	L. H. Hansen.....	523,523	July 24	2351	{ 590 591 }	68	485
Vehicles. Transverse seat for foot-power.....	G. O. Draper.....	524,106	Aug. 7	231	54	68	704
Veil-clasp.....	H. L. Alexander.....	517,970	Apr. 10	917	229	67	188
Veil-fastener.....	G. A. Anderson.....	528,062	Oct. 23	2329	562	69	475
Velocipede.....	C. Byrne.....	527,404	Oct. 16	1195	{ 293 294 }	69	250
Velocipede.....	J. Clark.....	516,786	Mar. 20	1747	412	66	1808
Velocipede.....	W. C. Davis.....	513,250	Jan. 23	2557	{ 615 616 }	66	582
Velocipede.....	G. H. Day.....	521,761	June 19	1804	428	67	1556
Velocipede.....	W. L. Decker.....	513,675	Jan. 30	3256	800	66	746
Velocipede.....	J. Desmond.....	524,019	Aug. 7	85	19	68	678
Velocipede.....	P. Everitt.....	530,169	Dec. 4	155	40, 41	69	1243
Velocipede.....	W. C. Foster.....	526,775	Oct. 2	179	42	69	34
Velocipede.....	E. Herrington and R. I. Butler.....	515,423	Feb. 27	2413	597	66	1350
Velocipede.....	T. B. Jeffery.....	527,607	Oct. 16	1529	371	69	311
Velocipede.....	E. C. Stearns.....	526,545	Sept. 25	2132	511	68	1581
Velocipede.....	M. L. Wilcox and J. A. Simpson.....	516,582	Mar. 13	1404	334	66	1730
Velocipede-bearing.....	F. D. Owen.....	519,269	May 1	586	143	67	651
Velocipede-brake.....	G. F. Hall.....	524,527	Aug. 14	970	238	68	855
Velocipede-brake.....	J. H. Hendrick and A. H. Fay.....	526,317	Sept. 18	1731	408	68	1495
Velocipede crank-shaft and bearing.....	J. S. Copeland.....	529,110	Nov. 13	1053	254	69	837
Velocipede driving-gear.....	W. Devoll.....	527,671	Oct. 16	1632	393	69	331
Velocipede gear case or cover.....	H. Bate.....	513,864	Jan. 30	3555	875	66	805
Velocipede-handle bar fastening.....	T. B. Jeffery.....	516,739	Mar. 20	1685	399	66	1797
Velocipede. Ice.....	D. G. Bolton.....	526,556	Sept. 25	2151	514	68	1584
Velocipede. Ice.....	W. Fahrig.....	529,371	Nov. 20	1525	365	69	965
Velocipede. Ice.....	A. T. Firth.....	512,600	Jan. 16	1597	353	66	329
Velocipede. Ice.....	L. Grieneisen.....	521,496	June 19	1343	312	67	1473
Velocipede. Ice.....	F. E. Nadon.....	515,442	Feb. 27	2431	602	66	1354
Velocipede. Ice.....	G. Rixinger.....	528,745	Oct. 2	127	30	69	25
Velocipede. Ice.....	M. Swenson.....	529,088	Nov. 13	1024	246	69	852
Velocipede. Ice.....	S. Young.....	526,210	Sept. 18	1550	{ 363 364 }	68	1458
Velocipede. Marine.....	W. Dryden.....	531,104	Dec. 18	1790	426	69	1571
Velocipede. Marine.....	H. B. Ogden.....	524,209	Aug. 7	416	98	68	737
Velocipede-pedal.....	H. Lucas and J. Archer.....	512,729	Jan. 16	1651	397	66	339
Velocipede-pedal.....	E. Tilston.....	512,525	Jan. 9	1331	321	66	263
Velocipede-pedal.....	T. F. and E. Warwick.....	514,742	Feb. 13	1287	320	66	1113
Velocipede pedal and crank.....	N. Rubinstein, C. Chuley, and E. Clarke.....	523,596	July 24	2461	617	68	505
Velocipede. Railway-.....	J. Donovan.....	514,449	Feb. 13	779	200	66	1018
Velocipede-saddle.....	W. L. Decker.....	514,748	Feb. 13	1296	322	66	1115
Velocipede-saddles. Means for supporting.....	C. de Rossetti.....	526,265	Sept. 18	1633	{ 383 384 }	68	1474
Velocipede-shaft-bearing.....	F. P. Crosby.....	511,877	Jan. 2	266	59	66	51
Velocipede-treadle.....	A. B. Curtis.....	512,869	Jan. 16	1935	458	66	393
Velocipede-treadle.....	A. B. Curtis.....	512,870	Jan. 16	1936	458	66	393
Velocipede-treadle.....	A. B. Curtis.....	512,871	Jan. 16	1937	458	66	394
Velocipede-wheel.....	E. E. Fay.....	520,845	June 5	165	36	67	1227
Velocipedes. Variable-speed and power gearing for.....	A. B. Stebbins.....	523,245	July 17	1861	468	68	380
Vending apparatus.....	G. W. Sherman.....	511,865	Jan. 2	191	47, 48	66	40
Vending apparatus.....	J. A. Williams.....	530,148	Dec. 4	120	31	69	1237
Vending apparatus. Coin-controlled.....	J. F. Sawyer and J. L. Purves.....	524,511	Aug. 14	945	{ 233 234 }	68	850
Vending apparatus. Coin-controlled liquid.....	A. L. Peirce.....	516,611	Mar. 13	1451	343	66	1739
Vending-machine.....	E. T. Brown and W. W. Olcott.....	515,741	Mar. 6	8	3, 4	66	1456
Vending-machine.....	D. F. S. Cook.....	516,675	Mar. 20	1569	{ 373 374 }	66	1778
Vending-machine.....	F. G. Dieterich.....	519,448	May 8	918	{ 221 222 }	67	728
Vending-machine.....	F. Lamplough.....	529,655	Nov. 20	2025	485	69	1054
Vending-machine.....	E. A. Thissell.....	530,561	Dec. 11	876	{ 215 216 }	69	1391
Vending-machine.....	E. D. Valentine.....	513,845	Jan. 30	3520	{ 266 267 }	66	798
Vending-machine.....	J. Walton.....	529,222	Nov. 13	1253	{ 302 303 }	69	893
Vending-machine.....	J. A. and W. T. Westbay.....	521,839	June 26	1926	{ 461 462 }	67	1597
Vending-machine.....	T. S. Wheatcroft.....	530,216	Dec. 4	245	60	69	1260
Vending-machine.....	C. P. Young.....	523,826	July 31	2878	715	68	598
Vending-machine. Coin-actuated.....	J. P. Beretta.....	527,930	Oct. 23	2084	499	69	431
Vending-machine. Coin-actuated.....	F. B. Cochrane.....	520,769	June 5	12	3, 4	67	1199
Vending-machine. Coin-controlled.....	A. Keith, J. P. Tirrell, and J. W. Willard.....	519,385	May 8	818	{ 199 200 }	67	710
Vending-machine. Coin-controlled.....	J. P. Tirrell and J. W. Willard.....	523,384	July 24	2087	{ 525 526 }	68	439
Vending-machine. Coin-controlled.....	J. P. Tirrell and J. W. Willard.....	523,385	July 24	2090	{ 526 527 }	68	440
Vending-machine for stamps and envelopes.....	J. H. McCormick.....	513,049	Jan. 16	2217	532	66	445

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr:g.	Vol.	Page.
Veneer articles. Apparatus for molding	F. Filip	528,663	Nov. 6	257	63, 64	69	692
Veneer-coiling machine	J. Tohlinson	531,604	Dec. 25	2690	645	69	1756
Veneer-cutting machine	N. E. Brown	528,120	Oct. 23	2434	529	69	494
Veneer-cutting machine	W. H. Powers	531,218	Dec. 18	2010	477	69	1611
Veneer-cutting machines. Quarter-log holder for	M. D. Williamson	526,337	Sept. 18	1758	417	68	1500
Veneer-cutting machines. Stripping attachment for	W. F. Hutchinson	523,576	July 24	2427	609	68	499
Veneer-drying apparatus	A. S. Nichols	515,357	Feb. 27	2290	568	66	1327
Veneer-press	C. E. Francis	524,380	Aug. 14	725	176	68	811
Veneers and apparatus therefor. Manufacture of	G. A. Oucken	512,211	Jan. 2	799	194	66	152
Veneers. Manufacturing	C. Köster	523,582	July 24	2436		68	501
Vent-fitting	O. Schlemmer	526,912	Oct. 2	410	102	69	77
Vent-peg for beer or other casks	J. P. Harding	513,319	Jan. 23	2649	640	66	592
Ventilating and furnace-checking device	J. B. Watson and J. R. Douglas	520,974	June 5	402	97	67	1270
Ventilating and heating apparatus	G. H. Maynard	514,329	Feb. 6	609	154	66	967
Ventilating-cap	T. J. Ryan	527,185	Oct. 9	825	200 201	69	169
Ventilating fire-rooms. Apparatus for	A. E. Aubry and G. H. Dawson	515,947	Mar. 6	335	80	66	1515
Ventilation. House	J. McCreery	521,038	June 5	503	120	67	1288
Ventilation of buildings	W. M. Decker	514,309	Feb. 6	581	145	66	962
Ventilator: See Car-ventilator. Window-ventilator.							
Ventilator	J. A. Ashburn	515,068	Feb. 20	1796	454	66	1222
Ventilator	W. T. Cottier	517,793	Apr. 3	631	158	67	122
Ventilator	P. Goerlitz	522,410	July 3	407	104	68	81
Ventilator	E. Voss	515,562	Feb. 27	2616	649	66	1389
Ventilator	W. F. Wolfe	521,561	June 19	1445	336	67	1491
Vertical-flue boiler	C. Abreus	519,013	May 1	120	29	67	550
Ventilator or chimney-cap	C. Franz and R. T. Merrill	530,036	Nov. 27	2695	647	69	1190
Vessel	W. E. Dodge	529,065	Nov. 13	982	233	69	844
Vessel	A. McDougall	513,524	Jan. 30	2996	738	66	700
Vessel	G. W. Schermerhorn	518,702	Apr. 24	2194	548	67	446
Vessel	R. Zertuche	513,856	Jan. 30	3341	872 873	66	802
Vessel and propelling mechanism therefor	R. Folsom	518,028	Apr. 10	1019	237	67	204
Vessel-brake	A. B. Combs	529,708	Nov. 27	2113	506 507	69	1080
Vessel-hull	G. T. Brewer	527,657	Oct. 16	1609	388	69	327
Vessel. Marine	S. Lacavalerie	516,395	Mar. 13	1087	258	66	1670
Vessel. Marine	L. N. Tonn	522,630	July 10	791	198	68	169
Vessel. Sailing	J. M. Boorman	517,155	Mar. 27	2386	563 564	66	1947
Vessel. Screw-propelled	C. G. Lundborg	520,691	May 29	3047	737 738	67	1162
Vessel. Steam freight and passenger	A. McDougall	529,295	Nov. 13	1382	332	69	916
Vessels. Apparatus for raising sunken	E. B. Petrie	526,163	Sept. 18	1459	341 342	68	1442
Vessels. Apparatus for raising sunken	J. and C. Taylor	517,630	Apr. 3	352	83	67	69
Vessels. Apparatus for removing ashes from fire-holds of	A. McDougall	530,850	Dec. 11	1351	323	69	1476
Vessels. Apparatus for removing ashes from fire-holds of	A. McDougall	530,851	Dec. 11	1353	323	69	1476
Vessels, &c. Body of least resistance for	F. E. Mills	514,835	Feb. 13	1433	360	66	1142
Vessels. Construction of	E. P. Stratton	522,744	July 10	1000	248 249	68	204
Vessels. Device for removing ashes from marine steam-	M. O. Miltzclaff	515,480	Feb. 27	2485	615	66	1364
Vessels. Device for the protection of	W. H. Bailey, Sr	523,422	July 24	2155	541	68	451
Vessels. Lee-wing for	N. C. Jessup	517,864	Apr. 10	732	184	67	155
Vessels. Line-holder for	E. C. Akers	522,773	July 10	1047	258 259	68	213
Vessels. Means for raising sunken	E. M. Arnold	526,959	Oct. 2	474	117	69	89
Vessels. Means for raising sunken	J. A. Biscaglia	526,000	Oct. 2	214	51, 52	69	41
Vessels. Means for raising sunken	W. A. and F. E. Turner	531,485	Dec. 25	2489	593	69	1716
Vessels. Method of and means for closing	T. Klinghammer	512,036	Jan. 2	512	121	66	98
Vessels over bars. Device for floating	J. Hadley and F. Foster	515,878	Mar. 6	228	53	66	1496
Vessels. Raising sunken	O. A. Bulette	524,243	Aug. 7	402	108	68	746
Vessels. Self-regulating discharge for closed	A. H. and T. A. Schlueter	517,305	Mar. 27	2639	620	66	1997
Veterinary drenching-bottle	P. Schaefer	521,596	June 19	1512	354	67	1502
Veterinary obstetrical forceps	O. Y. Bartholomew	518,580	Apr. 24	1966	491	67	409
Veterinary tooth-cutter	J. J. Robinson	522,855	July 10	1163	290	68	236
Veterinary tooth-cutter	H. C. Stanbridge	515,943	Mar. 6	330	79	66	1515
Vibrating-piston engine	W. E. Crist	521,603	June 19	1519	356	67	1504
Vine-fastener	T. Flesher	527,959	Oct. 23	2149	517	69	442
Vine-fastener	E. J. Fuller	525,010	Aug. 28	1800	439	68	1036
Vine fastening. Grape-	G. E. Ryckman and M. Tucker	517,484	Apr. 3	115	26	67	24
Vine-stripper	M. Maples	517,469	Apr. 3	92	20, 21	67	20
Violin-bow holder	J. H. White	522,543	July 3	621	158	68	122
Violin finger-board	W. W. Waring	524,428	Aug. 14	811	198	68	827
Violin-mute	H. W. Hoeft	516,093	Mar. 6	579	135	66	1560
Violin-pad	E. Hagenow	519,791	May 15	1517	369	67	849
Violoncello-rod	W. H. Howe	515,831	Mar. 6	161	39	66	14-3
Vise	T. M. Brintnall	514,614	Feb. 13	1069	267	66	1072
Vise	J. L. Carpenter	528,074	Oct. 23	2351	567	69	479
Vise	J. W. Flowers	515,545	Feb. 27	2592	641	66	1384
Vise	S. Frisbie	528,426	Oct. 30	2967	718	69	604
Vise	J. M. Lewis	517,347	Mar. 27	2705	635	66	2010
Vise	R. S. Peabody	528,556	Nov. 6	53	14	69	656
Vise	F. A. Pickering	528,912	Nov. 6	713	171	69	780
Vise	H. C. Rasner	527,217	Oct. 9	879	213	69	179
Vise	G. Siller	526,753	Oct. 2	139	33	69	27
Vise	W. E. Snediker	519,008	May 1	112	27	67	557
Vise	W. E. Snediker	519,028	May 1	145	35	67	564
Vise	J. J. Tower	530,733	Dec. 11	1168	284	69	1441
Vise. Bench	J. A. Ingalls	512,472	Jan. 9	1252	302	66	249

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Vise. Bench.	M. G. Lewis	514,012	Feb. 6	59	14	66	865
Vise. Bench.	R. S. Peabody	528,968	Nov. 13	227	194	69	817
Vise. Bench.	T. J. Welsh	522,501	July 3	554	141	68	109
Vise. Blacksmith's	A. Lennon	521,505	June 19	1356	315	67	1475
Vise. Box-making	W. O. Knauer and A. V. Tyler	525,501	Sept. 4	301	74	68	1208
Vise, drill, and anvil. Combined	J. Weathers	516,288	Mar. 13	901	212	66	1638
Vise. Hand-	C. E. Billings	525,311	Aug. 28	2304	560	68	1128
Vise. Jaw	T. W. Vane	525,243	Aug. 28	2203	536	68	1106
Vise. Parallel.	W. Whitehead	514,344	Feb. 6	627	160	66	970
Vise. Pipe.	G. F. Haven	523,311	July 17	1970	495	68	401
Vise. Pipe.	J. Lane	524,330	Aug. 14	617	149	68	792
Vise. Portable bench.	W. P. Shaw	513,206	Jan. 23	2453	593	66	561
Vise. Rapid-acting	W. C. and W. H. Toles	528,190	Oct. 30	2557	619	69	531
Vise. Revolving	O. Eisele	513,261	Jan. 23	2559	616	66	582
Vises. Means for operating sectional nuts of	J. E. Boegen	521,698	June 19	1677	394	67	1534
Voice-rectifier	V. Carpi	527,235	Oct. 9	911	220	69	185
Voltaic battery	H. Timm	522,127	June 26	2438	587	67	1692
Voltaic battery. Primary	W. Walker, Jr., and F. R. Wilkins	524,291	Aug. 7	548	130	68	760
Voltaic cells. Depolarizer for	G. Hewett	512,510	Jan. 9	1311	-----	66	259
Voltaic cells. Excitant for	G. Hewett	512,962	Jan. 16	2091	-----	66	421
Voltmeter	E. R. Knowles	520,789	June 5	50	12	67	1206
Voltmeter	E. R. Knowles	520,964	June 5	382	93	67	1267
Voting-machine	W. M. Cutter	519,494	May 8	1004	243	67	741
Voltmeter. Recording.	F. D. Goold	525,894	Sept. 11	1012	228	68	1348
Vote registering and recording machine	H. A. Clifford	527,133	Oct. 9	754	185	69	155
Voting-booth	E. E. Barry	516,292	Mar. 13	907	213	66	1639
Voting-booth	C. B. and H. H. Grahl	513,569	Jan. 30	3078	757	66	715
Voting-machine	S. E. Davis	526,668	Sept. 25	2335	{ 558 } 559	68	1618
Voting-machine	D. Dobbins	530,752	Dec. 11	1197	291	69	1447
Voting-machine	L. W. Harmsen	512,699	Jan. 16	1609	326	66	331
Voting-machine	J. McTammany	520,609	May 29	2999	700	67	1135
Voting machine	J. Mourot	530,347	Dec. 4	481	{ 119 } 120	69	1302
Voting-machine	J. H. Scottford	512,994	Jan. 16	2137	508	66	430
Vulcanizable compound	W. Griscom, Jr.	529,727	Nov. 27	2143	-----	69	1026
Vulcanizable compound	W. Griscom, Jr.	529,728	Nov. 27	2145	-----	69	1086
Vulcanizable compounds and vulcanizing and applying same. Compounding	W. Griscom, Jr.	529,905	Nov. 27	2440	-----	69	1141
Vulcanized compound. Hard	W. Griscom, Jr.	529,730	Nov. 27	2149	-----	69	1086
Wad-feeding mechanism	C. S. Hisey	528,099	Oct. 23	2309	580	69	487
Waffle-iron lever-handle	C. J. Hess	528,634	Nov. 6	210	51	69	684
Wagon.	M. P. Jacobsen	528,598	Nov. 6	133	33	69	670
Wagon-bed	H. P. Gaines	516,595	Mar. 13	1425	{ 337 } 338	66	1733
Wagon-bed	C. P. Lancaster	530,537	Dec. 11	831	205	69	1383
Wagon-bed-lifting apparatus	O. H. Drinkwater	530,165	Dec. 4	153	40	69	1243
Wagon-beds or wire-stretcher. Machine for moving.	R. H. Irvine and A. T. Anderson	526,231	Sept. 18	1581	371	68	1464
Wagon-body	C. A. Erickson	514,067	Feb. 6	142	35	66	881
Wagon-body	T. Wagner and W. Habermann	517,500	Apr. 3	144	31	67	30
Wagon-body and weighing-scale. Combined	G. Riley and H. H. York	516,659	Mar. 20	1544	367	66	1773
Wagon-body clamp	A. L. White and S. J. Dean	525,639	Sept. 4	526	127	68	1249
Wagon body. Milk	G. B. Marx	525,106	Aug. 28	1973	483	68	1067
Wagon-box lifter.	J. W. Hayes, Jr.	530,770	Dec. 11	1227	{ 297 } 298	69	1453
Wagon-brake	J. W. Brubaker	526,611	Sept. 25	2240	534	68	1601
Wagon-brake	J. Jacobs	520,849	June 5	173	38	67	1228
Wagon-brake	M. H. Madsen	525,950	Sept. 11	939	218	68	1334
Wagon-brake	W. Manwaring	516,101	Mar. 6	587	138	66	1562
Wagon-brake	G. M. McLaughlin and C. E. Cooley	519,729	May 15	1415	341	67	830
Wagon-brake	A. T. Newell	511,861	Jan. 2	182	45	66	38
Wagon-brake	B. F. Pascoe	525,618	Sept. 4	498	120	68	1244
Wagon-brake	W. Petering	531,061	Dec. 18	1710	406	69	1557
Wagon-brake	V. T. Sweeney	528,826	Nov. 6	551	132	69	747
Wagon-brake. Automatic.	D. W. Lee	526,132	Sept. 18	1410	328	68	1433
Wagon-brake. Automatic.	F. A. V. Thelander	515,264	Feb. 20	2116	525	66	1282
Wagon-brake lock	R. Ford, Sr.	526,620	Sept. 25	2251	538	68	1603
Wagon. Delivery.	J. W. Pile	527,806	Oct. 23	1859	447	69	390
Wagon. Dumping.	N. Barney	515,854	Mar. 6	200	47	66	1490
Wagon. Dumping.	J. Bauers	515,987	Mar. 6	413	95	66	1529
Wagon. Dumping.	A. M. and H. V. Chaffee	524,161	Aug. 7	335	79	68	723
Wagon. Dumping.	B. W. Clark	513,861	Jan. 30	3586	883	66	810
Wagon. Dumping.	L. E. Johnson	522,987	July 17	1400	350	68	296
Wagon. Dumping.	J. A. Klees	519,455	May 8	930	224	67	730
Wagon. Dumping.	J. McBride	525,506	Sept. 4	309	76	68	1209
Wagon. Dumping.	W. S. Phillips	520,572	May 29	2838	685	67	1124
Wagon. Dumping.	J. C. Proctor	530,241	Dec. 4	293	72	69	1269
Wagon. Dumping.	J. T. Richardson	529,878	Nov. 27	2398	574	69	1133
Wagon. Dumping.	M. L. Senderling	529,467	Nov. 20	1713	408	69	997
Wagon. Dumping.	M. L. Senderling	631,138	Dec. 18	1856	440	69	1584
Wagon. Dumping.	S. P. Snyder	522,697	July 10	890	220	68	186
Wagon. Dumping.	A. J. Thompson	515,628	Feb. 27	2721	677	66	1410
Wagon dumping device	T. Wright	529,909	Nov. 27	2611	627	69	1174
Wagon. Garbage.	M. S. Hubbell and T. H. Gilbert	515,911	Mar. 6	279	66	66	1505
Wagon. Gravel or dirt	A. W. Coats and J. Bartlett	516,564	Mar. 13	1374	327	66	1724
Wagon. Hunting.	T. H. Brown	512,273	Jan. 9	897	217	66	182
Wagon-jack	L. L. Kellogg	516,057	Mar. 6	530	123	66	1551
Wagon. Mail.	J. H. Martin	526,042	Sept. 18	1253	290	68	1404
Wagon. Milk.	N. Milbank	518,848	Apr. 24	2438	604	67	488
Wagon running-gear	J. L. Blake	530,003	Nov. 27	2638	{ 633 } 634	69	1180
Wagon running-gear	E. E. Henderson	529,734	Nov. 27	2156	{ 514 } 515	69	1087
Wagon sand-band	J. A. Fulton	528,538	Nov. 6	23	7	69	650

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Wagon-seat.....	C. C. Field.....	512,018	Jan. 2	483	115	66	93
Wagon-seat.....	R. Pederson.....	522,387	July 3	367	95	68	72
Wagon shoveling-board.....	C. W. Needles.....	524,345	Aug. 14	668	163	68	799
Wagon. Sprinkling.....	E. T. Westerfield.....	527,353	Oct. 9	1110	271	69	220
Wagons. Device for attaching hay-loaders to.....	T. and J. Husmann.....	514,369	Feb. 6	665	168	66	978
Wagons. Device for attaching hay-loaders to.....	M. F. Stadtmüller.....	524,960	Aug. 21	1686	413	68	998
Wagons. Self-closing roller-top for transport.....	H. Mühlberg.....	526,324	Sept. 18	1740	411 412	68	1496
Waist.....	C. A. Burgess.....	523,260	July 17	1890	475	68	386
Waist. Garment.....	L. Coatney.....	523,324	July 24	1991	500	68	422
Waistband for trousers.....	H. J. Lyon.....	512,254	Jan. 2	865	208	66	163
Waistband for trousers.....	J. Schwarz.....	517,984	Apr. 10	944	237	67	192
Waistband for trousers and device for attaching shirt-waists thereto.....	J. Schwarz.....	530,130	Dec. 4	94	25	69	1232
Water for invalid bedsteads or chairs. Adjustable.....	D. Cook.....	518,733	Apr. 24	2262	562	67	457
Walking-stick and lamp. Combined.....	F. Deninger.....	518,590	Apr. 24	2000	495	67	412
Wall.....	F. Schweitzer.....	525,239	Oct. 30	2649	638	69	548
Wall-cleaning compound.....	J. C. Hochhaus.....	524,327	Aug. 14	613	.....	68	792
Wall-coating and making same. Material for.....	E. Watson.....	523,637	July 10	798	.....	68	170
Wall-coating and manufacturing same.....	J. Walker and H. Carver.....	531,579	Dec. 25	2646	.....	69	1748
Wall covering. Inside.....	A. Sackett.....	520,123	May 22	2066	504	67	965
Wall decoration and making same. Material for.....	E. Watson.....	523,636	July 10	797	.....	68	170
Wall decoration. Making material for.....	E. Watson.....	523,635	July 10	795	.....	68	170
Wall-fastening.....	C. Leicht.....	523,359	July 24	2050	515	68	432
Wall-finish compound.....	R. E. Haire.....	521,143	June 5	693	.....	67	1321
Wall. Fireproof building.....	P. A. Deslauriers.....	520,137	May 22	2110	514	67	971
Wall-paper machine.....	R. Heilmann.....	527,976	Oct. 23	2178	523 524 525	69	447
Wall-tie.....	J. Prescott.....	524,531	Aug. 14	975	239	68	856
Walls. Construction of.....	L. Küpper.....	528,636	Nov. 6	212	51	69	684
Walls. Fireproof framing for partition or other.....	T. L. Banks.....	529,154	Nov. 13	1131	274	69	872
Walls or ceilings. Finishing-joint in wooden.....	G. Knower.....	517,701	Apr. 3	481	115	67	92
Wardrobe.....	P. W. A. Rey.....	512,519	Jan. 9	1324	319	66	262
Wardrobe-hook.....	D. W. Tower.....	525,752	Sept. 11	746	174	68	1300
Warning-safe.....	A. Maag and F. S. Horn.....	518,042	Apr. 10	1052	267	67	209
Warp fabric.....	S. Spooner.....	519,101	May 1	275	65	67	588
Warping-machine electric stop-motion.....	C. Denn, J. Cocker, and C. Denn.....	512,013	Jan. 2	475	113	66	91
Warping or reeling machine.....	H. P. Mallison.....	513,431	Jan. 23	2805	688	66	630
Warping or other machines. Cone-holder for.....	J. W. Foster.....	514,885	Feb. 13	1515	379	66	1157
Washbench.....	D. B. Washburn.....	524,658	Aug. 14	1182	290	68	896
Washbench and clothes-bar. Folding.....	W. H. Forrester.....	518,186	Apr. 10	1279	323	67	249
Washboard.....	F. A. Balch.....	529,353	Nov. 20	1483	357	69	957
Washboard.....	C. C. Hartung.....	525,416	Sept. 4	170	43	68	1182
Washboard.....	D. C. Juleson.....	512,302	Jan. 9	946	231	66	192
Washboard.....	G. B. Lutomski.....	517,187	Mar. 27	2450	576	66	1960
Washboard.....	M. B. Miller.....	530,490	Dec. 4	736	179 180	69	1349
Washboard.....	W. H. Osmer.....	524,948	Aug. 21	1671	409	68	995
Washboard.....	J. G. Schneider.....	525,628	Sept. 4	511	123	68	1246
Washboard.....	J. H. Taylor.....	511,914	Jan. 2	317	75	66	62
Washboiler.....	D. J. H. Davies.....	520,589	May 29	2869	694	67	1130
Washboiler.....	J. K. Hawkins.....	530,842	Dec. 11	1334	320	69	1474
Washboiler.....	H. Rotter.....	516,877	Mar. 20	1895	448	66	1339
Washboiler.....	A. D. Weiss.....	511,979	Jan. 2	421	98	66	80
Washstand and table. Combined.....	A. Wettervik.....	516,621	Mar. 13	1467	347	66	1742
Washstand and water-closet. Combined.....	A. A. Leyare.....	526,240	Sept. 18	1597	374 375	68	1467
Washstand attachment.....	I. N. Glauber.....	526,390	Sept. 25	1873	445	68	1534
Washstand. Portable.....	M. H. Wickman.....	522,571	July 3	676	172	68	131
Washtub.....	O. Brueck.....	523,621	July 24	2503	628	68	513
Washtub.....	J. Reid and E. Hammann.....	529,568	Nov. 20	1892	450	69	1029
Washtub-support.....	C. S. Bushell and F. W. Degler.....	516,260	Mar. 13	862	201	66	1630
Washtubs. Connection for cement.....	G. Deuerlein.....	515,466	Feb. 27	2465	610	66	1360
Washer:							
See Axle-washer. Elastic washer.							
Barrel-washer. Gold-washer.							
Bottle-washer. Grain-washer.							
Can-washer. Nut-lock washer.							
Coal or mineral Ore-washer.							
washer. Tumbler-washer.							
Washing apparatus.....	W. Arnold.....	518,027	Apr. 10	1117	282	67	220
Washing-machine.....	T. B. Arndt.....	520,350	May 22	2475	600	67	1040
Washing-machine.....	J. W. Beevar and D. Shaw.....	531,089	Dec. 18	1768	421	69	1567
Washing-machine.....	J. Beltzer.....	517,537	Apr. 3	196	44	67	39
Washing-machine.....	F. P. Beisel.....	516,751	Mar. 20	1703	463	66	1801
Washing-machine.....	J. C. and W. Benkema.....	520,841	June 5	159	35	67	1226
Washing-machine.....	E. F. Blank.....	513,297	Jan. 23	2611	632	66	593
Washing-machine.....	J. S. Blood.....	516,428	Mar. 13	1138	271	66	1681
Washing-machine.....	D. R. Borneman.....	526,143	Sept. 18	1427	333 334	68	1436
Washing-machine.....	G. Brander.....	527,264	Oct. 9	953	233	69	193
Washing-machine.....	E. C. Brewer.....	520,408	May 29	2566	621	67	1075
Washing-machine.....	T. Bunker.....	522,877	July 10	1191	297	68	241
Washing-machine.....	F. Buch.....	512,359	Jan. 9	1037	254	66	308
Washing-machine.....	E. C. Burt.....	523,103	July 17	1592	400	68	333
Washing-machine.....	T. P. Butterfield.....	514,703	Feb. 13	1217	303	66	1101
Washing-machine.....	J. D. Cavanaugh.....	527,360	Oct. 9	1119	273 274	69	222
Washing-machine.....	V. Cermak.....	517,839	Apr. 10	697	177	67	150
Washing-machine.....	C. M. Coats and J. L. Sprague.....	513,004	Jan. 16	2155	512 513	66	433
Washing-machine.....	J. G. Crawford.....	522,970	July 17	1369	340 341	68	291

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. E.	Vol.	Page.
Washing-machine.	W. F. Day and J. A. Pierce.	523,659	July 31	2565	642	68	542
Washing-machine.	E. and E. L. Dickerman.	529,610	Nov. 20	1956	465	69	1042
Washing-machine.	D. P. Edgar.	520,771	June 5	18	4	67	1199
Washing-machine.	A. Erbor.	519,303	May 1	655	159	67	664
Washing-machine.	E. O. M. Haberacker.	523,343	July 24	2031	510	68	429
Washing-machine.	F. D. Harding.	525,322	Aug. 28	2335	564	68	1132
Washing-machine.	J. Heselwood.	524,204	Aug. 7	406	96	68	735
Washing-machine.	J. Heselwood.	524,205	Aug. 7	408	97	68	736
Washing-machine.	F. Jackson.	518,407	Apr. 17	1626	{ 417 418 }	{ 67 67 }	341
Washing-machine.	L. Kelly.	517,699	Apr. 3	478	114	67	92
Washing-machine.	E. King.	513,020	Jan. 16	2179	519	66	437
Washing-machine.	J. L. Knoll.	530,277	Dec. 4	352	87	69	1280
Washing-machine.	G. Laube.	514,854	Feb. 13	1465	368	66	1148
Washing-machine.	G. Laube.	514,860	Feb. 13	1470	369	66	1149
Washing-machine.	Z. M. Lindley.	517,225	Mar. 27	2507	589	66	1971
Washing-machine.	M. M. Lord.	529,869	Nov. 27	2325	570	69	1131
Washing-machine.	T. McCrossan.	516,443	Mar. 13	1166	279	66	1686
Washing-machine.	J. A. Mengel.	521,506	June 19	1357	315	67	1476
Washing-machine.	F. J. Merrow.	523,479	July 24	2271	571	68	469
Washing-machine.	J. Neukirchen.	515,529	Feb. 27	2568	636	66	1379
Washing-machine.	C. A. Palmquist.	522,695	July 10	886	219	68	186
Washing-machine.	J. F. Philow.	512,842	Jan. 16	1876	444	66	322
Washing-machine.	J. Popping.	512,484	Jan. 9	1274	306	66	252
Washing-machine.	C. P. Randolph.	527,507	Oct. 16	1366	323	69	283
Washing-machine.	U. Reiffer.	530,900	Dec. 11	1428	339	69	1490
Washing-machine.	P. J. Russell and L. De Vaux.	530,854	Dec. 11	1357	324	69	1477
Washing-machine.	W. Smith.	527,458	Oct. 16	1294	316	69	270
Washing-machine.	R. R. Stevenson.	515,944	Mar. 6	331	79	66	1515
Washing-machine.	W. Sweet.	527,463	Oct. 16	1303	318	69	272
Washing-machine.	W. Sweet.	531,576	Dec. 25	2643	633	69	1747
Washing-machine.	G. P. Walter.	513,374	Jan. 23	2726	662	66	614
Washing-machine.	H. R. Ward.	517,081	Mar. 27	2265	535	66	1924
Washing-machine. Electric.	J. P. Johanson.	512,970	Jan. 16	2103	499	66	423
Washing-machine reversing-gearing.	J. G. Crawford.	517,646	Apr. 3	384	91, 92	67	74
Waste and supply coupling. Bath.	F. M. Mackin and C. R. Schmidt.	516,154	Apr. 10	1223	307	67	239
Waste apparatus for bath-tubs, basins, &c.	J. Farrell.	514,675	Feb. 13	1173	292	66	1091
Waste or rag picker.	E. R. Coverdill.	530,615	Dec. 11	964	236	69	1407
Watch.	S. Aronson.	516,718	Mar. 20	1638	389	66	1790
Watch.	J. L. Hutchinson.	530,530	Dec. 11	817	203	69	1381
Watch.	J. W. Nunamaker.	517,882	Apr. 10	759	190	67	161
Watch.	N. M. Saati.	512,328	Jan. 9	985	{ 241 242 243 }	{ 66 66 66 }	199
Watch-alarm.	J. W. Nunamaker.	528,790	Nov. 6	473	116	69	732
Watch-balance staff and bearing.	C. A. Johnson.	516,539	Mar. 13	1334	318	66	1717
Watch-bow fastener.	D. H. Abney.	521,070	June 5	571	134	67	1300
Watch-bow fastener.	E. J. Swedlund.	531,480	Dec. 25	2481	591	69	1715
Watch-bow pliers.	H. W. Wildt.	514,799	Feb. 13	1375	346	66	1131
Watch cannon-pinion.	J. V. Coats.	520,298	May 22	2381	578	67	1022
Watchcase.	C. K. Colby.	518,712	Apr. 24	2222	553	67	450
Watchcase.	J. Dürststein.	521,210	June 12	813	191	67	1357
Watchcase-centers. Making dies for.	F. Ecaubert.	514,648	Feb. 13	1121	280	66	1082
Watchcase-pendant.	E. C. Fitch.	513,907	Jan. 30	3015	891	66	817
Watchcase-pendant.	A. N. Gauthier.	526,030	Sept. 18	1228	283	68	1400
Watchcase-pendant.	W. S. Richardson.	517,933	Apr. 10	846	213	67	177
Watchcase-pendant and bow-fastener.	W. Hellberg.	513,013	Jan. 16	2109	517	66	436
Watchcase-spring.	J. H. Fleming.	522,320	July 3	248	66	68	50
Watchcase-spring.	C. Nobs.	517,554	Apr. 3	227	52	67	45
Watchcase-spring.	C. Nobs.	528,207	Oct. 30	2593	626	69	537
Watchcase-spring.	E. A. Remick and P. Fleck.	519,926	May 15	1726	423	67	888
Watchcase-turning machine.	C. E. Henriod-Bachni.	530,227	Dec. 4	268	66, 67	69	1264
Watchcases. Tool for ornamenting.	F. Ecaubert.	517,686	Apr. 3	460	111	67	88
Watchcases, &c. Tool for ornamenting.	C. Wilhelm and F. Ecaubert.	531,455	Dec. 25	2443	582	69	1708
Watch-dial.	W. B. Learned.	511,852	Jan. 2	167	42	66	35
Watch-dial fastening.	G. E. Hunter.	523,913	July 31	3031	753	68	626
Watch-dials. Machine for enameling the faces of.	F. W. Wetherbee.	512,136	Jan. 2	675	162	66	129
Watch-holder.	V. Wesely.	514,050	Feb. 6	120	28	66	876
Watch-jewels. Mechanism for loading.	G. E. Hunter.	520,681	May 29	3030	{ 733 734 }	{ 67 67 }	1159
Watch-jewels. Mechanism for loading.	L. N. Jackman and C. A. Smith.	521,715	June 19	1707	{ 402 403 }	{ 67 67 }	1541
Watch lid or back machine.	H. M. Crowell.	522,317	July 3	243	64, 65	68	49
Watch mainspring-barrel.	C. Morlet.	526,935	Oct. 2	448	110	69	84
Watchmaker's bench-tool.	C. A. Stebbins.	514,971	Feb. 20	1648	412	66	1197
Watchmaker's combined tweezers and screw-driver.	E. White.	522,640	July 10	801	200	68	170
Watchmakers' lathes. Wheel-cutting fixture for.	H. K. Kebabian.	512,550	Jan. 9	1366	330	66	270
Watchmaker's length-gage.	H. J. Cogswell.	531,435	Dec. 25	2390	572	69	1698
Watchmaker's poising-tool.	C. H. Landgraf.	529,178	Nov. 13	1182	264	69	881
Watchmaker's tool.	J. A. Bricker.	512,942	Jan. 16	2058	487	66	415
Watchmaker's tool.	A. H. Fleming.	525,810	Sept. 11	851	194	68	1319
Watchman's shot-proof box.	S. E. White.	517,086	Mar. 27	2274	537	66	1926
Watch-movement box.	E. C. Fitch.	517,647	Apr. 3	386	92	67	75
Watch-movement frame.	D. H. Church.	527,771	Oct. 23	1799	434	69	379
Watch-movement plates. Machine for recessing.	D. H. Church.	522,930	July 10	1292	{ 320 321 322 }	{ 68 68 68 }	260
Watch-plate.	D. H. Church.	527,772	Oct. 23	1801	434	69	380
Watch-protector.	J. C. Lee.	512,559	Jan. 9	1378	333	66	273
Watch-protector.	A. Sarnmark.	525,666	Sept. 4	581	139	68	1258
Watch-protector swivel.	W. T. Braham.	529,360	Nov. 20	1495	359	69	959
Watch. Stem-winding.	G. S. Klein.	521,884	June 26	1998	482	67	1612
Watch. Stem winding and setting.	D. H. Church.	520,633	May 29	2936	710	67	1142
Watch. Stem winding and setting.	O. O. Martinell.	523,841	July 31	2909	726	68	60

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Watch. Stem winding and setting	N. T. Mills	523,169	July 17	1729	433	68	357
Watch-winding	S. Schisgall	526,871	Oct. 2	335	82, 83	69	63
Watches. Center-arbor for	W. B. Learned and J. A. Mosher	530,345	Dec. 4	479	119	69	1301
Watches. Guard for slides of repeating	G. E. Humbert	523,207	July 17	1792	450	68	368
Watches. Plate for stem-winding	W. W. Hastings	530,483	May 29	2692	{ 651 652 }	67	1097
Watches. Mainspring-barrel for	A. N. Gauthier	525,265	Aug. 28	2232	545	69	1112
Watches. Roller-jewel protector for	A. N. Gauthier	525,264	Aug. 28	2231	544	68	1112
Water alarm. Frozen	W. Humberstone	525,548	Sept. 4	389	94, 95	68	1223
Water. Apparatus for obtaining distilled and sterilized	J. Nagel	523,230	July 17	1831	461	68	375
Water-bag and food-warmer	A. M. Plummer	526,501	Sept. 25	2069	492	68	1569
Water-bag stopper. Hot	D. B. Martin	525,553	Sept. 11	942	211	68	1335
Water-closet	F. Adeo	516,174	Mar. 13	709	167	66	1601
Water-closet	A. T. Booth	526,008	Sept. 11	1190	273	68	1380
Water-closet	J. Campbell	526,891	Oct. 2	367	92	69	68
Water-closet	W. T. Fox	518,753	Apr. 24	2292	569	67	462
Water-closet	M. Garland	524,246	Aug. 7	466	109	68	747
Water-closet	A. M. King	525,659	Sept. 4	567	{ 136 137 }	68	1255
Water-closet	S. W. Lewis	515,914	Mar. 6	283	67	66	1506
Water-closet	E. O. Poppe	526,412	Sept. 25	1926	{ 458 459 }	68	1543
Water-closet	C. R. Schmidt. (Reissue)	11,441	Sept. 11	1208	278	68	1383
Water-closet	J. H. Stevens, Jr	519,878	May 15	1656	403	67	875
Water-closet	J. H. Stevens, Jr	524,515	Aug. 14	951	234	68	852
Water-closet	H. C. Stifel	515,886	Mar. 6	238	56	66	1498
Water-closet	H. C. Stifel	516,128	Mar. 6	632	148	66	1571
Water-closet	H. C. Stifel	516,129	Mar. 6	633	148	66	1571
Water-closet	H. C. Stifel	516,130	Mar. 6	634	148	66	1571
Water-closet	H. C. Stifel	516,131	Mar. 6	635	{ 148 149 }	66	1571
Water-closet	H. C. Stifel	516,132	Mar. 6	636	149	66	1572
Water-closet	F. R. Treiber	524,655	Aug. 14	1177	2-9	68	895
Water-closet	J. F. Wolff	526,065	Sept. 18	1290	299	68	1411
Water-closet and tank	P. Harvey	530,306	Dec. 4	464	102	69	1289
Water-closet and urinal	W. W. Ensign	525,809	Sept. 11	850	{ 193 194 }	68	1319
Water-closet apparatus	P. White	514,103	Feb. 6	199	46	66	892
Water-closet bowl	H. C. Stifel	516,133	Mar. 6	637	149	66	1572
Water-closet bowl and seat	G. F. Greene	522,010	June 26	2260	541	67	1659
Water-closet bowls. Coupling for	G. F. Brown	522,750	July 10	1010	250	68	206
Water-closet bowls. Flushing device for	E. C. Stover	514,245	Feb. 6	475	116	66	942
Water-closet coupling	J. Porteous	531,425	Dec. 25	2375	568	69	1695
Water-closet coupling	J. J. Ricketts	515,925	Mar. 6	301	71	66	1510
Water-closet coupling	J. H. Savill	526,088	Sept. 18	1334	310	68	1419
Water-closet coupling	J. H. Savill	526,089	Sept. 18	1335	310	68	1419
Water-closet coupling	W. Vanderman	529,146	Nov. 13	1117	{ 270 271 }	69	870
Water-closet flushing-tank	P. Harvey	514,188	Feb. 6	355	85	66	920
Water-closet flushing-tank	H. W. Kirchner and W. A. Spears	520,436	May 29	2610	632	67	1082
Water-closet-flushing-valve regulator	R. Wright	514,110	Feb. 6	209	43	66	894
Water-closet for railway-cars	S. S. Herrick	525,104	Aug. 28	1975	483	68	1066
Water-closet reservoir	G. B. Howell	520,358	May 22	2485	602	67	1042
Water-closet seat	P. J. Cabill	522,553	July 3	639	{ 162 163 }	66	125
Water-closet seat	T. Grace	512,955	Jan. 16	2080	492	66	419
Water-closet seat	U. G. Johnson	522,163	June 26	2510	602	67	1706
Water-closet-seat attachment	J. H. Stevens, Jr	524,516	Aug. 14	953	234	68	852
Water-closet-seat attachments. Bearing for	J. H. Stevens, Jr	525,396	Sept. 4	136	34	68	1175
Water-closet siphon mechanism	J. N. Sanger	529,466	Nov. 20	1711	408	69	997
Water-closet tank	P. Harvey	516,011	Mar. 6	449	103	66	1536
Water-closet valve. Flush	J. Liming	524,176	Aug. 7	356	84	68	726
Water-closets. Automatic pull for	E. D. Andruss	521,072	June 5	573	134	67	1300
Water-closets. Connection for broken	A. W. Ayling	526,285	Sept. 18	1666	393	68	1480
Water-closets, &c. Valve for	T. R. Keyworth, Jr	518,004	Apr. 10	986	245	67	199
Water-column	J. N. Poage	531,598	Dec. 25	2679	643	69	1754
Water-column. Safety	H. Engel	519,382	May 8	814	198	67	709
Water-conveyer	A. D. Goodwin	528,090	Oct. 23	2382	{ 574 575 }	69	485
Water-cooler and refrigerator	F. R. Beal	511,834	Jan. 2	138	35	66	29
Water-distributing system. Siphon	J. C. Eberley	529,547	Nov. 20	1858	442	69	1023
Water-elevator	G. W. Campbell	514,616	Feb. 13	1071	268	66	1073
Water-elevator	J. McMurrin	528,015	Oct. 23	2255	544	69	461
Water elevator and carrier	J. H. Hodges	523,911	July 31	3029	753	68	626
Water-elevator. Momentum	J. M. Allen and A. J. Welcker	525,305	Aug. 28	2298	558	68	1126
Water-elevator. Steam vacuum	P. Sattelkau and H. R. Winkelmann	521,441	June 12	1228	{ 290 291 }	67	1435
Water-elevators. Storage-reservoir for steam vacuum	P. Sattelkau and H. R. Winkelmann	521,390	June 12	1132	267	67	1418
Water-feeder. Automatic	C. A. Southwick	518,866	Apr. 24	2463	610	67	493
Water-gage	F. M. Ashley	518,171	Apr. 10	1255	316	67	244
Water-gage	T. Elcoate	513,902	Jan. 30	3610	889	66	815
Water-gage	J. A. Milliken	529,560	Nov. 20	1878	447	69	1027
Water-gage	J. C. Rumme	517,483	Apr. 3	113	25, 26	67	24
Water-gage guard	J. A. and J. Hopkinson	519,957	May 15	1775	435	67	897
Water-gage. Magnetic	L. Kleritj	530,592	Dec. 11	927	227	69	1400
Water-gage. Safety	G. B. Essex	513,492	Jan. 30	2935	723	66	688
Water-gage. Safety	F. L. Wolfe	523,391	July 24	2101	528	68	442
Water, gas, &c. Street-box for	A. H. Austin	520,176	May 22	2179	531	67	985
Water-gate. Automatic	G. Guttenbrunner	526,310	Sept. 18	1718	{ 405 406 407 }	68	1492
Water gully. Double-trap surface	L. W. Crosta	520,036	May 22	1915	{ 469 470 }	67	937

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Water-heater	E. C. Hall	524,897	Aug. 21	1579	{ 386 3-7	{ 68	979
Water-heater	J. T. Hanrahan	512,191	Jan. 2	769	187	66	146
Water-heater	E. Hayes	517,572	Apr. 3	256	39.60	67	50
Water-heater	J. S. Heaton	521,314	June 12	998	235	67	1391
Water-heater	A. H. F. J., and H. S. Humphrey ..	523,071	July 17	1533	384	68	321
Water-heater	J. M. Laing	526,496	Sept. 25	2064	491	68	1568
Water-heater	A. Pinney	523,752	July 31	2750	6-3	68	574
Water-heater and range. Combined ..	I. N. Hall	523,277	July 17	1911	4-1	68	390
Water-heater and stove. Combined portable ..	W. C. Dickerson	524,891	Aug. 21	1552	{ 384 3-5	{ 68	978
Water-heater, cleanser, and scale-preventer ..	J. J. Miner	527,616	Oct. 16	1574	374	69	314
Water-heater. Gas	S. Stewart	519,357	May 8	776	{ 189 190	{ 67	701
Water heater or boiler	C. T. Toulmin	521,995	June 26	2231	536	67	1654
Water heater or cooler	W. Morrison	531,000	Dec. 18	1606	381	69	1537
Water-heater. Stovepipe	E. R. Austin	515,640	Feb. 27	2737	6-2	66	1414
Water-heating apparatus	C. H. Page, Jr.	521,916	June 26	2068	{ 496 497	{ 67	1625
Water-heating apparatus	C. H. Page, Jr.	521,917	June 26	2070	497	67	1626
Water-meter	G. B. Bassett	530,743	Dec. 11	1182	288	69	1444
Water-meter	C. W. Beck	529,156	Nov. 13	1133	274	69	873
Water-meter	J. E. A. Bel	524,411	Aug. 14	788	193	68	822
Water-meter	L. H. Nash	527,537	Oct. 16	1420	345	69	292
Water-meter. Automatic	G. Chaffey	527,046	Oct. 9	616	149	69	130
Water-meter. Compound intermittent	J. Thomson	512,849	Jan. 16	1900	{ 448 449	{ 66	336
Water-meter. Disk	L. H. Nash	527,534	Oct. 16	1416	344	69	291
Water-meter. Disk	L. H. Nash	527,535	Oct. 16	1417	345	69	292
Water-meter. Disk	L. H. Nash	527,536	Oct. 16	1419	345	69	292
Water-meter. Disk	L. H. Nash	527,538	Oct. 16	1421	346	69	292
Water-meter. Disk	L. H. Nash	527,539	Oct. 16	1422	346	69	292
Water-meter. Disk	J. Thomson	514,171	Feb. 6	320	76	66	913
Water-meter. Disk	J. Thomson	520,195	May 22	2210	{ 538 539	{ 67	990
Water-meter. Disk	J. Thomson	520,197	May 22	2215	{ 540 541	{ 67	991
Water-meter. Proportional	C. H. Bacon	530,074	Nov. 27	2769	664	69	1263
Water-meter. Proportional	J. Thomson	512,632	Jan. 9	1487	359	66	292
Water-meter. Proportional	J. Thomson	515,378	Feb. 27	2328	578	66	1335
Water-meter. Rotary	P. Ball	521,493	June 19	1337	{ 310 311	{ 67	1472
Water-meter. Rotary	H. J. Rohlf	522,802	July 10	1091	269	68	222
Water-meter. Rotary	T. Zanger	515,726	Feb. 27	2879	719	66	1441
Water module or delivery regulator	C. A. D'Ehro	518,227	Apr. 17	1371	343	67	284
Water-motor	E. B. Benham and H. E. Barlow ..	522,958	July 17	1354	336	68	228
Water-motor	F. Fenley	529,524	Nov. 20	1822	433	69	1017
Water-motor	J. E. Lewis	523,045	July 17	1498	{ 372 373	{ 68	315
Water-motor	A. A. Raubold	521,814	June 26	1888	{ 451 452	{ 67	1590
Water-motor	J. W. Shipley	517,667	Apr. 3	426	103	67	82
Water-motor and fan. Combined	W. H. Rucker	516,901	Mar. 20	1934	437	66	1846
Water or grease proof material	W. B. Howe	524,024	Aug. 7	92	.....	68	679
Water-pipes. Device for regulating and relieving pressure in ..	H. G. Van Everen and J. Henderson ..	514,394	Feb. 6	699	177	66	985
Water-power	W. E. Vernon	530,370	Dec. 4	520	129	69	1309
Waterproofing compound	W. H. Browne	528,848	Nov. 6	599	.....	69	755
Waterproofing fabrics. Compound for ..	E. J. Kuewilton	517,927	Apr. 10	838	.....	67	175
Water-purifier	E. J. M. Clemens	514,617	Feb. 13	1074	268	66	1073
Water-purifier	H. Cassard	525,316	Aug. 28	2324	563	68	1131
Water-purifier	H. Woods	525,302	Aug. 28	2293	{ 557 558	{ 68	1126
Water-purifier	H. Woods	525,303	Aug. 28	2296	557	68	1126
Water-purifier	H. Woods	525,304	Aug. 28	2297	558	68	1126
Water purifier and heater	J. A. Warthen	512,076	Jan. 2	5-3	138	66	111
Water-purifier. Centrifugal	J. Naylor, Jr.	529,663	Nov. 20	2037	429	69	1057
Water. Purifying	T. Craney	524,887	Aug. 21	1568	3-3	68	977
Water. Purifying	B. Remmers	521,964	June 26	2167	520	67	1643
Water-purifying apparatus	L. Archbutt and R. M. Deeley	521,522	June 19	1387	321	67	1480
Water-purifying apparatus	P. Ball	513,473	Jan. 30	2898	714	66	6-1
Water-purifying apparatus	T. Craney	515,819	Mar. 6	145	35	66	1480
Water-purifying apparatus	H. Desrumaux	522,729	July 10	959	{ 238 239 240	{ 68	1198
Water-purifying apparatus	J. H. McDonald	517,552	Apr. 3	224	51	67	44
Water-purifying apparatus	R. T. Scowden	513,536	Jan. 30	3020	745	66	704
Water-purifying apparatus	R. T. Scowden	513,686	Jan. 30	3270	805	66	749
Water-purifying or liquor-aging apparatus ..	R. C. Turner	524,121	Aug. 7	261	61	68	709
Water-return system	G. A. Jencks and G. W. Parker	524,718	Aug. 21	1290	316	68	927
Water-sprinkler	H. B. Everest	519,992	May 15	1841	450	67	909
Water-sterilizing apparatus	A. V. M. Sprague	527,084	Oct. 9	666	163	69	140
Water-supply system	S. D. Love	514,090	Feb. 6	185	42	66	829
Water-tower	E. P. Steck	527,460	Oct. 16	1295	317	69	270
Water-tower	D. A. Woodhouse	513,167	Jan. 23	2395	578	66	550
Water-tube boiler	J. J. Hogan	520,882	June 5	228	{ 52 53 54	{ 67	1239
Water-tube boiler	L. M. Moyes	524,724	Aug. 21	1298	318	68	929
Water-tube boiler	H. S. Pell	512,213	Jan. 2	803	195	66	152
Water-tube boiler	M. H. Plunkett	522,272	July 3	177	48	68	36
Water-tube boiler	M. H. C. Shann	527,079	Oct. 9	658	160	69	138
Water-tube boiler	D. Smith and H. P. Goldrick	530,664	Dec. 11	1055	257	69	1492
Water-wheel	F. M. Bookwalter and W. W. Tyler ..	525,440	Sept. 4	210	52	68	1189

Alphabetical list of inventions—Continued.

Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. &c.	Vol.	Page.
Water-wheel.....	P. S. Buckminster.....	525,002	Aug. 28	1784	{ 435 436 }	68	1033
Water-wheel.....	C. A. Chase.....	521,152	June 12	708	166	67	1338
Water-wheel.....	A. J. Gould.....	518,599	Apr. 24	2069	499	67	414
Water-wheel.....	A. F. Sparks.....	525,431	Sept. 4	193	48	68	1187
Water-wheel governor. Electrical	C. S. English.....	521,085	June 5	595	140	67	1304
Water-wheel governor. Electrical	E. P. Wetmore.....	519,597	May 8	1192	288	67	776
Water-wheel-regulating apparatus.....	C. B. Sessions and B. C. Van Emon.	518,282	Apr. 17	1457	{ 364 365 }	67	299
Water-wheel. Turbine.....	J. M. Parker.....	521,386	June 12	1126	{ 265 266 }	67	1417
Water-wheel. Turbine.....	J. H. Staples.....	518,795	Apr. 24	2355	{ 583 584 }	67	474
Watering device. Stock.....	R. M. Sanford.....	526,911	Oct. 2	407	101	69	76
Watering-pot.....	J. R. Wotherspoon.....	518,437	Apr. 17	1743	433	67	351
Watering-trough.....	J. E. Kordick.....	513,513	Jan. 30	2972	731	66	695
Watering-trough. Automatic.....	T. L. Regeater.....	525,772	Sept. 11	783	181	68	1307
Watt meter.....	E. Weston.....	522,949	July 10	1329	330	68	267
Wave and current power.....	S. Husted and I. P. Doolittle.....	513,930	Jan. 30	3647	899	66	823
Wave-motor.....	E. Gerlach.....	523,963	July 31	3135	781	68	647
Wave-motor.....	C. A. Merritt.....	526,082	Sept. 18	1322	306	68	1416
Wave-motor.....	J. Singer and J. C. Wood.....	524,490	Aug. 14	904	223	68	844
Wave-motor.....	J. C. Walker.....	516,034	Mar. 6	494	114	66	1544
Wave-quieting device.....	H. See and G. L. Carden.....	527,513	Oct. 16	1377	335	69	224
Wax for dental or other purposes. Metallic-covered.	A. S. Rutherford.....	527,218	Oct. 9	880	214	69	179
Wax product for dental or other purposes.....	A. S. Rutherford.....	527,219	Oct. 9	881	214	69	179
Weaner. Calf or colt.....	R. M. Franks.....	513,386	Jan. 23	2744	669	66	618
Weather-board gage.....	T. L. Wint.....	520,511	May 29	2738	663	67	1104
Weather-board gage and adjuster.....	S. H. Absbier and G. F. Lacke.....	520,472	May 29	2672	646	67	1093
Weather-boarding.....	F. H. Burrows.....	525,442	Sept. 4	213	53	68	1190
Weather-strip.....	D. A. and J. H. Bodiker.....	530,576	Dec. 11	899	221	69	1395
Weather-strip.....	N. N. Hazelton.....	514,365	Feb. 6	659	167	66	977
Weather-strip.....	J. Snyder.....	522,626	July 10	781	197	68	167
Weather-strip.....	W. True.....	527,468	Oct. 16	1310	320	69	274
Weather-strip.....	D. E. Vanvactor.....	524,427	Aug. 14	810	198	68	826
Weather-strip.....	R. M. Wilson.....	525,641	Sept. 4	531	128	68	1250
Weather-strip machine.....	D. W. Bosley.....	512,271	Jan. 9	894	216	66	181
Weed-cutter.....	J. F. Dole.....	516,000	Mar. 6	432	100	66	1532
Weed-cutter.....	R. H. Douglass.....	514,312	Feb. 6	585	146	66	963
Weeding and root-pulling implement.....	T. L. Smith.....	531,449	Dec. 25	2435	579	69	1706
Weeding implement.....	G. W. McKenzie.....	520,212	May 22	2342	546	67	996
Weft-fork.....	O. Piper and J. E. Newton.....	525,965	Sept. 11	1128	257	68	1369
Weigher and conveyer spout. Grain.....	V. Weber and J. R. Harrison.....	520,382	May 22	2522	610	67	1050
Weigher. Automatic grain.....	L. C. Guttery.....	519,947	May 15	1761	432	67	894
Weigher. Grain.....	G. Anderson.....	523,191	July 17	1770	444	68	364
Weigher. Grain.....	H. A. Stock.....	513,659	Jan. 30	3233	794	66	742
Weigher. Grain.....	E. C. Young.....	529,229	Nov. 13	1265	304	69	895
Weigher. Rotating grain.....	J. Sudbrook.....	518,287	Apr. 17	1468	367	67	301
Weighing and measuring machines. Register for grain.....	V. Weber.....	518,983	Apr. 10	1106	280	67	218
Weighing and registering machine.....	W. B. Dickson.....	515,953	Mar. 6	344	82	66	1517
Weighing apparatus.....	R. N. Coghlan.....	520,301	May 22	2384	579	67	1023
Weighing device. Automatic grain.....	J. Graham.....	519,707	May 15	1381	333	67	823
Weighing. Electric apparatus for automatic.....	C. E. Buzhy.....	521,331	June 12	1026	241	67	1396
Weighing-machine. Automatic.....	E. H. Beckett and C. W. Roberts.....	527,828	Oct. 23	1892	{ 454 455 }	69	395
Weighing machine. Grain.....	I. G. Jones.....	525,080	Aug. 28	1930	{ 472 473 }	68	1059
Weighing machine. Grain.....	H. Richardson.....	520,336	May 22	2450	595	67	1036
Weighing, registering, and discharging machine. Grain.....	L. P. Summers.....	528,403	Oct. 30	2924	708	69	597
Welding apparatus.....	C. L. Rowland.....	519,776	May 15	1487	360	67	843
Welding apparatus. Electric.....	R. M. Hunter.....	520,359	May 22	2486	603	67	1042
Welding apparatus. Electric.....	R. M. Hunter.....	520,360	May 22	2490	603	67	1042
Welding apparatus. Pipe.....	S. Leek and J. Norton.....	529,280	Nov. 13	1356	325	69	912
Welding apparatus. Ring.....	C. L. Coffin.....	530,020	Nov. 27	2668	640	69	1185
Welding machine. Electric.....	H. Lemp.....	523,987	Aug. 7	35	8	68	669
Welding machine. Electric.....	H. Lemp and C. G. Anderson.....	519,336	May 8	726	{ 178 179 }	67	692
Welding metal. Apparatus for electrically.....	C. L. Coffin.....	512,604	Jan. 9	1445	348	66	284
Welding or brazing mechanism. Electric.....	G. D. Burton.....	523,957	July 31	3120	776	68	644
Well apparatus. Artesian.....	J. Barrett.....	511,924	Jan. 2	338	79	66	65
Well attachment. Artesian.....	F. Cavallaro.....	524,666	Aug. 14	1196	293	68	898
Well-boring apparatus.....	L. Gist.....	530,989	Dec. 18	1589	377	69	1534
Well-boring apparatus.....	A. Veil.....	525,374	Sept. 4	100	25	68	1168
Well-casing rig. Oil.....	C. C. Stover.....	519,651	May 8	1288	308	67	792
Well-cleaning device.....	G. W. Lee.....	522,843	July 10	1151	285	68	233
Well-digger.....	A. Odewahn and F. Reichart.....	521,175	June 12	753	177	67	1347
Well-drilling apparatus.....	S. A. Horton.....	519,405	May 8	855	207	67	716
Well-drilling apparatus.....	S. A. Horton.....	526,708	Oct. 2	64	16	69	15
Well-drilling apparatus.....	S. A. Horton. (Reissue).....	11,446	Oct. 16	1780	429	69	359
Well-drilling apparatus. Bit for.....	S. A. Horton.....	517,459	Apr. 3	77	17	67	17
Well-drilling machine.....	A. Cameron.....	512,003	Jan. 2	458	109	66	88
Well drilling machine.....	S. MacEachen.....	513,240	Jan. 23	2516	606	66	574
Well-drilling machine.....	C. A. Ray.....	516,977	Mar. 20	2062	488	66	1870
Well heater. Oil.....	J. S. Lucock.....	522,737	July 10	974	243	68	200
Well or cistern cleaner.....	J. Miller, Sr.....	519,431	May 8	895	216	67	724
Well-packing.....	E. P. Warner.....	530,631	Dec. 11	992	244	69	1412
Well-pipe puller.....	J. S. Cousins.....	529,604	Nov. 20	1947	463	69	1040
Well-reamer.....	J. Deisch.....	526,440	Sept. 25	1976	471	68	1552
Well-tilting coupler.....	J. H. Brown.....	529,776	Nov. 27	2222	530	69	1099
Wells. Construction of oil.....	O. Fay.....	526,346	Sept. 12	1772	421	68	1503
Wells. Machinery for operating oil.....	W. F. Burr.....	524,244	Aug. 7	463	109	68	746
Wells. Piston for Artesian or oil.....	W. H. Downing.....	518,490	Apr. 17	1823	451	67	365

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wells, &c. Removing articles from	L. Maish	517,806	Apr. 3	651	163	67	127
Welt-trimmer	F. A. Dunham	522,786	July 10	1068	264	68	217
Welt-trimmer	F. A. Dunham	527,950	Oct. 23	2126	510	69	438
Wheel:							
See Ball-bearing wheel. Grip-wheel.							
Bearing-wheel. Metal wheel.							
Bicycle-wheel. Paddle-wheel.							
Buff-wheel. Pneumatic-tired wheel.							
Buffing-wheel. Power-wheel.							
Car-wheel. Propeller-wheel.							
Carriage-wheel. Skate-wheel.							
Cycle-wheel. Snow-wheel.							
Door-hanger wheel. Sprocket-wheel.							
Drive-wheel. Traction-wheel.							
Emery-wheel. Tread-wheel.							
Escapement-wheel. Trolley-wheel.							
Fifth-wheel. Turbine wheel.							
Friction-wheel. Turbine water-wheel.							
Gear-wheel. Vehicle-wheel.							
Grain-drill press-wheel. Water-wheel.							
Grinding-wheel. Wind-wheel.							
Grinding and polishing wheel. Wind or current operated wheel.							
Wheel	P. Ambjörn	530,983	Dec. 18	1579	{ 374 375 }	{ 69 68 }	1532
Wheel	W. S. Brelsfoard	514,409	Feb. 6	720	183	66	989
Wheel	W. G. Cole	512,279	Jan. 9	907	219	66	184
Wheel	E. Fox	519,790	May 15	1516	369	67	849
Wheel	H. P. Garland	526,622	Sept. 25	2253	539	68	1604
Wheel	S. Garwood	525,011	Aug. 28	1801	{ 439 440 }	{ 68 67 }	1036
Wheel	H. B. Gleason	522,125	Oct. 23	2443	591	69	495
Wheel	H. S. Glick	523,342	July 24	2030	510	68	429
Wheel	W. Grayson and L. J. Crecelius	514,360	Feb. 6	653	166	66	976
Wheel	T. Hartley	513,782	Jan. 30	3420	844	66	777
Wheel	G. P. Hobbs and A. L. Edwards	518,736	Apr. 24	2269	563	67	458
Wheel	J. G. Keith	531,618	Dec. 25	2713	650	69	1761
Wheel	G. Laube	522,941	July 10	1312	326	68	264
Wheel	J. M. McMaster	521,570	June 19	1465	343	67	1494
Wheel	W. E. Meyer, C. M. Young, and A. V. Boyce	524,424	Aug. 14	807	197	68	826
Wheel	E. D. Misner	522,785	Nov. 6	467	114	69	731
Wheel	A. Nelson	513,525	Jan. 30	2997	739	66	700
Wheel	W. A. Orr and B. S. Reynolds	523,150	July 17	1690	423	68	350
Wheel	A. Sharp	524,224	Aug. 7	436	103	68	741
Wheel	N. O. Starks	527,735	Oct. 16	1739	420	69	351
Wheel	J. Turner	512,450	Jan. 9	1230	297	66	244
Wheel	G. Turner and J. M. H. Venour	522,575	Nov. 6	90	23	69	662
Wheel-cleaner	L. B. Fleming	531,171	Dec. 18	1924	458	69	1595
Wheel guard. Hand	J. W. Cameron	520,410	May 29	2568	621	67	1075
Wheel-making machine	L. J. Crecelius	511,876	Jan. 2	259	59	66	51
Wheel-mold	J. Slattery	516,359	Mar. 13	1028	244	66	1661
Wheel of fortune. Coin-controlled	N. B. Lichty and J. W. Kennedy	512,118	Jan. 2	649	155	66	124
Wheel rail-guard. Vehicle	C. J. Wagener	515,540	Feb. 27	2586	640	66	1383
Wheel-rim	A. C. Fairbanks	530,172	Dec. 4	159	41	69	1244
Wheel-rim	A. Marceau and F. Minie	516,725	Mar. 20	1661	394	66	1793
Wheel-rim	E. Warwick	530,736	Dec. 11	1173	285	69	1442
Wheel-rim and making same	C. F. Cowdrey	522,047	June 26	2313	555	67	1669
Wheel-rim and tire	A. Stead	519,917	Jan. 16	2014	478	66	408
Wheel-rim clip	C. S. Dikeman	523,108	July 17	1611	404	68	337
Wheel-rim for pneumatic tires	T. Birch	528,411	Oct. 30	2941	711	69	600
Wheel-rim joint. Vehicle	L. Rastetter	528,741	Nov. 6	377	91	69	715
Wheel rim. Vehicle	R. A. Gibson	528,666	Nov. 6	263	65	69	693
Wheel rim. Vehicle	F. L. Goodrich	530,990	Dec. 18	1591	378	69	1534
Wheel-rims. Joint for metal	J. Friedenstern	517,610	Apr. 3	313	74	67	62
Wheel. Spring-spoke	G. Valley	513,848	Jan. 30	3525	867	66	799
Wheel-testing apparatus. Water	J. Emerson	530,513	Dec. 11	791	196	69	1376
Wheel-washing device	M. Arbuckle	525,574	Sept. 4	432	103	68	1231
Wheel-wrench	O. Smith	524,770	Aug. 21	1377	335	68	943
Wheels. Apparatus for clamping peripheral bands on	F. P. Pileghar	523,729	July 31	2708	670	68	566
Wheels. Machine for counting teeth of cog	F. C. Stamm	525,671	Sept. 4	587	140	68	1259
Wheels. Method of and apparatus for counterbalancing	S. M. Vauclain	531,487	Dec. 25	2493	594	69	1717
Wheels. Suspension-rim for vehicle	E. B. Killen	526,713	Oct. 2	73	19	69	16
Wheels to shafts. Means for fastening	J. C. Fiester	525,009	Aug. 28	1798	439	68	1035
Wheelbarrow	M. V. Garver	520,919	June 5	304	74	67	1253
Wheelbarrow	J. B. A. Grenier	522,251	Oct. 30	2068	643	69	552
Wheelbarrow	H. Houldsworth, Jr	529,912	Nov. 27	2454	591	69	1143
Wheelbarrow	A. Taufflieb and V. Chausard	524,917	Aug. 21	1616	396	68	936
Wheelbarrow-tray	M. V. Garver	520,920	June 5	305	75	67	1253
Whetstone	R. Dutton	528,772	Nov. 6	442	108	69	727
Whetting cutting-faces of chisels. Machine for	H. J. Gosling	526,571	Sept. 25	2174	519	68	1588
Whiffletree	D. Able and E. Gross	529,673	Nov. 20	2053	492	69	1060
Whiffletree	J. C. H. Hobbs	521,028	June 5	487	116	67	1285
Whiffletree	A. W. Mitchell	522,611	July 10	758	191	68	163
Whiffletree	M. L. Moody	524,723	Aug. 21	1298	317	68	929
Whiffletree	G. Pedersen	513,054	Jan. 16	2225	534	66	447
Whiffletree	G. Pedersen	513,055	Jan. 16	2226	534	66	447
Whiffletree	C. S. Sharp	513,286	Jan. 23	2592	628	68	589
Whiffletree	W. H. H. Spradlin	523,381	July 24	2084	525	68	438
Whiffletree	G. H. Talbot	524,353	Aug. 14	686	167	68	802
Whiffletree-hook	J. R. Davis	513,309	Jan. 23	2626	637	66	596

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Whiffletree-hook	W. Dewey	524,314	Aug. 14	592	142	68	788
Whiffletree-plate	H. K. Porter	511,796	Jan. 2	79	20	66	18
Whip	M. O. Felker	511,838	Jan. 2	144	37	66	30
Whip	L. W. Stimer and G. T. Moore	511,816	Jan. 2	103	26	66	23
Whip-socket	F. M. Beidler	526,478	Sept. 25	2037	485	63	1562
Whip-socket	H. A. Smith	513,736	Jan. 30	3359	828	66	765
Whirligig	W. J. McCarthy	517,228	Mar. 27	2510	589	66	1972
Whist apparatus. Duplicate	W. Sowdon	530,665	Dec. 11	1056	237	69	1422
Whist. Apparatus for playing duplicate	G. A. Bisler	525,941	Sept. 11	1077	245	63	1359
Whist. Apparatus for playing duplicate	J. G. Butler	514,302	Feb. 6	568	142	66	960
Whist. Apparatus for playing duplicate	C. E. Parks	516,224	Mar. 13	801	187	66	1618
Whist box. Duplicate	A. H. Woodward	521,302	June 12	979	232	67	1388
Whist-table. Duplicate	G. S. Boutwell	529,699	Nov. 27	2097	502	69	1078
Whistle and valve for operating same. Electrically-controlled	C. E. Ongley	522,694	July 10	885	219	68	186
Whistle. Steam chime	H. R. Frisbie	520,418	May 29	2576	623	67	1076
Whistles. Non-condensing apparatus for steam	J. G. Hermes	527,000	Oct. 2	538	132	69	101
Wick-fastener	B. F. Goodrich and J. M. Merritt	513,501	Jan. 30	2954	727	66	692
Wick for oil-stoves or lamps	O. Ewert and H. L. Marbach	530,170	Dec. 4	156	41	69	1244
Wick. Lamp	J. T. Murray	519,795	May 15	1525	371	67	850
Wick-lifter	J. Reid	513,059	Jan. 16	2230	536	66	448
Wick-raiser	F. Rhind	525,720	Sept. 11	693	160	68	1291
Wick-trimmer	J. W. Lawson	511,902	Jan. 2	296	69	66	57
Wind-engine	T. Rogers	511,969	Jan. 2	405	94	66	77
Wind-engine	W. H. Stewart	519,977	May 15	1814	444	67	904
Wind-gage sight	W. Lyman	514,562	Feb. 13	976	246	66	1055
Wind-instrument mouthpiece	F. R. Skidmore	528,993	Nov. 13	863	204	69	824
Wind-motor	A. Lancaster	523,217	July 17	1812	454	68	372
Wind or current operated wheel	J. P. Kelso	512,712	Jan. 16	1630	391	66	335
Wind-wheel	F. Dalstrom	512,164	Jan. 2	731	177	66	139
Wind-wheel	L. W. Noyes	523,842	July 31	2911	726	68	604
Wind-wheel	N. N. Vroman	516,618	Mar. 13	1463	346	66	1741
Wind-wheel	C. O. Weidman	512,777	Jan. 16	1771	420	66	362
Winding cotton web, &c. Machine for	E. Goldman	520,420	May 29	2581	624	67	1077
Winding-engine	H. L. Reynolds and H. W. Ketchum	519,619	May 8	1233	296	67	783
Winding machine. Thread	J. W. Foster	527,602	Oct. 16	1524	369	69	311
Winding machine. Thread	J. W. Foster	529,548	Nov. 20	1859	442	69	1023
Winding machine. Thread	S. W. Wardwell, Jr	531,081	Dec. 18	1750	417	69	1563
Winding-machine tube-holder. Thread	J. W. Foster	514,886	Feb. 13	1516	380	66	1157
Winding or spooling machine	W. A. Smith	530,731	Dec. 11	1162	282	69	1440
Winding yarn. Machinery or apparatus for	J. E. Broadbent	512,860	Jan. 16	1922	454	66	391
Windlass	J. F. Barrett	524,520	Aug. 14	959	236	68	853
Windlass	M. T. Reeves	529,531	Nov. 20	1833	436	69	1019
Windlass. Grain-shovel	J. H. Finley	520,956	June 5	371	90, 91	67	1265
Windmill	W. A. Blank	517,374	Mar. 27	2749	616	66	2019
Windmill	J. Boisclair	529,358	Nov. 20	1492	358	69	959
Windmill	T. D. Cook	517,542	Apr. 3	204	47	67	41
Windmill	F. W. Eaton	514,848	Feb. 13	1457	366	66	1147
Windmill	P. Erekson	529,612	Nov. 20	1958	465	69	1042
Windmill	T. Forstner	515,863	Mar. 6	208	49	66	1492
Windmill	F. A. Franklin	517,854	Apr. 10	721	181	67	153
Windmill	F. A. and E. L. Franklin	527,276	Oct. 9	988	239	69	197
Windmill	S. K. Humphrey	531,038	Dec. 18	1672	397	69	1550
Windmill	P. O. Lutnes	527,866	Oct. 23	1969	473	69	409
Windmill	L. W. Noyes	523,843	July 31	2914	727	68	605
Windmill	C. H. Pagett	524,667	Aug. 14	1089	269	68	879
Windmill	G. H. Poe	523,484	July 24	2277	572	68	471
Windmill	C. B. Putnam	515,408	Feb. 27	2373	588	66	1343
Windmill	M. H. Richardson	516,900	Mar. 20	1933	456	66	1845
Windmill	N. L. Rigby and H. B. Reaves	527,157	Oct. 9	784	191	69	160
Windmill	G. B. Snow	517,198	Mar. 27	2463	579	66	1963
Windmill	E. C. B. Touzelin	527,738	Oct. 16	1743	421	69	352
Windmill	J. Wallace	519,362	May 8	785	192	67	703
Windmill	C. E. Williamson	517,674	Apr. 3	441	166	67	85
Windmill	A. V. Winegarden	518,300	Apr. 17	1485	371	67	304
Windmill	A. Zwiebel	512,352	Jan. 9	1026	251	66	205
Windmill-brake	J. H. Miller	531,420	Dec. 25	2368	566	69	1694
Windmill or wind-motor	S. J. Rollason	529,197	Nov. 13	1210	292	69	885
Windmill power-transmitter	W. E. Shields	532,307	July 3	228	61	63	46
Windmill power-transmitter	C. E. Williamson	525,778	Sept. 11	791	182	68	1308
Windmill-regulator	A. S. Clark	530,985	Dec. 18	1582	375	69	1533
Windmill-regulator	J. H. Fisher	512,649	Jan. 9	1530	367	66	301
Windmill-regulator. Automatic	T. L. Regester	523,442	July 24	2191	552	68	457
Windmill-rudder hinge	F. Waidner	515,630	Feb. 27	2723	678	66	1411
Windmill tank tower	L. W. Noyes	523,864	July 31	2945	734	68	611
Windmill-tower	S. A. Rouse	526,793	Oct. 2	204	48	69	39
Windmill-towers. Brace-lock for	M. J. Althouse	525,324	Sept. 4	1	1	68	1151
Windmills. Pump-gear for	A. S. Erickson	531,523	Dec. 25	2556	611	69	1729
Windmills. Transmitting-gear for	F. J. Brown, A. and S. Allen	531,504	Dec. 25	2524	603	69	1723
Window	C. Ajello	521,356	June 12	1025	255	67	1409
Window	G. Giglio	521,585	June 19	1494	350	67	1499
Window	F. C. von Heydebrand und der Lasa	528,637	Nov. 6	213	52	69	68

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. g.	Vol.	Page.
Window	A. Massalski	528,333	Oct. 30	2804	678	69	576
Window	R. J. Mitchell	520,327	May 22	2426	590	67	1032
Window	J. Ort	529,134	Nov. 13	1096	264	69	866
Window	S. C. Taylor	525,168	Aug. 28	2097	511	68	1087
Window and insect screen	E. C. Kreh, Jr.	518,069	Apr. 10	1091	275	67	215
Window appliance	E. Keuser	528,481	Oct. 30	3064	743	69	692
Window attachment	J. and C. Dietz	525,006	Aug. 28	1793	437 438 439	68	1035
Window-casing	H. J. Oliver	531,326	Dec. 25	2306	528 529	69	1663
Window. Cellar-	L. Tremmel	523,137	July 17	1669	418	68	346
Window-cleaner	R. G. Mitchell	528,908	Nov. 6	719	169	69	778
Window, door, or the like. Horizontally-sliding.	C. Sümmerrmann	520,713	May 29	3085	746 747 749	67	1169
Window-fastener	C. M. Fowler	524,803	Aug. 21	1429	350	68	953
Window-fixture	J. R. and J. E. Lambert	517,952	Apr. 10	883	221	67	182
Window frame and sash	M. E. Knight and A. B. Harrington.	519,333	May 8	720	177	67	691
Window frame and sash	A. P. Nielsen	523,591	July 24	2452	614 615	68	504
Window-frame pulley-casing.	J. H. Foote	527,111	Oct. 9	709	173	69	147
Window frame. Stained-glass.	H. A. Lewie	517,049	Mar. 27	2207	522	66	1913
Window-frame. Weatherproof	H. Neumann	520,330	May 22	2431	591	67	1032
Window-guard	C. Hickether and J. Theemling	522,523	July 3	592	152	68	117
Window-guard and shade attachment.	T. Euphrat	521,607	June 19	1534	359	67	1506
Window-operator	R. K. Smith and J. R. Pile	515,061	Feb. 20	1784	450	66	1220
Window or curtain fixture	G. A. Crisson	513,307	Jan. 23	2624	636	66	595
Window or door button	S. C. Black	525,251	Aug. 28	2213	539	68	1108
Window or door button	F. P. Rawdon	526,843	Oct. 2	284	68	69	54
Window or door frames for securing storm-sashes or the like. Attachment for	J. D. Johnston	516,393	Mar. 13	1085	258	66	1070
Window or door screen	T. C. Murphy	516,873	Mar. 20	1888	446	66	1837
Window-platform	G. W. Ousley, Jr.	527,445	Oct. 16	1259	309	69	261
Window-scaffold. Adjustable.	W. W. Hills	514,464	Feb. 13	820	208	66	1025
Window-screen	S. Abbott	525,381	Sept. 4	108	28	68	1170
Window-screen	J. F. Bittle	527,401	Oct. 16	1192	293	69	250
Window-screen	G. E. Blaine	518,660	Apr. 24	2116	529	67	432
Window-screen	J. W. Clark	525,260	Aug. 28	2225	541	68	1111
Window-screen	W. W. Cole	517,602	Apr. 3	302	70	67	59
Window-screen	C. H. Dixon	529,899	Nov. 27	2431	584	69	1139
Window-screen	H. Higgin	514,654	Feb. 13	1131	282	66	1084
Window-screen	S. W. Hurlburt	520,112	May 22	2049	500	67	963
Window-screen	E. C. and W. G. Irwin	530,272	Dec. 4	343	85	69	1278
Window-screen	L. W. Merriam	516,608	Mar. 13	1446	343	66	1737
Window-screen	C. S. Norcross	515,054	Feb. 20	1774	448	66	1218
Window-screen	B. R. Parker and C. A. Freeman	524,608	Aug. 14	1091	270	68	879
Window-screen	J. G. Schill	530,353	Dec. 4	491	121	69	1304
Window-screen	W. Scott	514,871	Feb. 13	1489	374	66	1152
Window-screen	L. H. Sholder	528,992	Nov. 13	860	204	69	824
Window-screen	A. Thomas	519,415	May 8	871	211	67	719
Window-screen	L. Weglein, Jr.	516,289	Mar. 13	902	213	66	1638
Window-screen	B. J. Wolfe	522,642	July 10	803	200	68	171
Window-screen. Adjustable	W. Lasar	523,044	July 17	1497	372	68	314
Window-screen and attachment	C. H. Bartlett, Jr.	517,183	Mar. 27	2443	575	66	1958
Window-screen. Rolling	E. G. Hastings	522,660	July 10	829	207	68	176
Window. Slide	M. Zennier	518,303	Apr. 17	1490	373	67	305
Window. Swinging	M. F. Mahoney	521,472	June 19	1295	302	67	1464
Window-ventilator	E. C. Ellis	516,860	Mar. 20	1869	442	66	1934
Windows. Device for protecting joints of	E. O. Read	529,838	Nov. 27	2336	555	69	1121
Windows. Electrical protection for	C. F. A. Sturts	516,240	Mar. 13	829	194	66	1623
Windows. Framing for stained-glass.	H. A. Lewie	515,002	Feb. 20	1685	423	66	1204
Windows. Mounting, operating, and locking swinging	E. E. De Kalb	515,520	Feb. 27	2550	632	66	1376
Windows or doors. Packing or sound-deadening device for	H. C. W. Weyhe	520,226	May 22	2264	551	67	1000
Wine-cooler	T. R. Wickham	517,507	Apr. 3	153	33	67	31
Wine-press	J. Kelly	512,616	Jan. 9	1464	353	66	288
Wine-press	F. Zwigard and R. Schwörer	522,334	July 3	272	71, 72	68	55
Winker-brace	A. C. Clark	518,876	Apr. 24	2484	616	67	498
Wiper and oiler for piston and brake rods.	H. R. Devine	512,166	Jan. 2	733	178	66	140
Wire and ribbons. Machine for hardening and tempering steel	E. Ashworth	514,986	Feb. 20	1665	417	66	1200
Wire-and-slat-fabric-weaving machine	W. C. Pratt	514,496	Feb. 13	872	222	66	1035
Wire. Apparatus for hardening and tempering steel.	E. Oddy, J. Crossley, E. and A. Smith.	517,527	Apr. 3	180	40	67	37
Wire apron	F. G. and A. C. Sargent	527,722	Oct. 16	1717	414	69	347
Wire-barbing machine	I. A. Kilmer	519,633	May 8	1258	302 303	67	787
Wire-bending machine	F. B. Griswold	519,812	May 15	1546	378	67	854
Wire-braiding machine	J. B. Cleaveland	529,021	Nov. 13	907	215	69	831
Wire brushes. Method of and machine for making.	J. Buchel	512,800	Jan. 16	1803	429	66	368
Wire-cloth holder	W. Lasar	517,408	Mar. 27	2840	665	66	2037
Wire-coiling apparatus	H. Polte	517,964	Apr. 10	910	227 228	67	187
Wire-coiling machine	G. W. Crowder	527,144	Oct. 9	766	187	69	157
Wire coils. Spiral guide for machines for making.	S. Coriasco	527,945	Oct. 23	2121	509	69	437
Wire-coupling	D. A. Byers	515,420	Feb. 27	2400	595	66	1348
Wire-covering machine	W. H. Avis	512,146	Jan. 2	689	166 167	66	132
Wire-crossover	L. S. Amos	523,096	July 17	1573	395	68	329
Wire-cutter	J. Brady	514,254	Feb. 6	486	119	66	944
Wire-drawing machine	G. B. Lamb	525,348	Sept. 4	42	11	68	1158
Wire-fabric machine	F. A. Williams	517,508	Apr. 3	154	33, 34	67	32
Wire-fabric tool	S. S. Casey	521,635	June 19	1578	369	67	1514

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr.'g.	Vol.	Page.
Wire-gage	J. Poole	513,596	Jan. 30	3117	766	66	722
Wire-galvanizing apparatus	G. M. Wright	518,048	Apr. 10	1061	268	67	210
Wire gripping and stretching tool	J. Harper	512,582	Jan. 9	1414	341	66	278
Wire-holding reel	A. Wickey	514,104	Feb. 6	202	46	66	593
Wire-lacing. Device for crimping	E. Paro	529,303	Nov. 13	1405	337	69	922
Wire loops. Attaching	H. J. Welch	514,177	Feb. 6	336	80	66	917
Wire loops. Machine for forming	D. White and A. F. Lagerwall	518,381	Apr. 17	1652	408	67	334
Wire machine. Barb-	S. Swanbum	520,459	May 29	2650	640	67	1089
Wire. Making	B. Mountain	514,766	Feb. 13	1321	329	66	1120
Wire-netting machine	G. F. Wright	529,093	Nov. 13	1031	248	69	853
Wire-netting machine	G. M. Wright	517,204	Mar. 27	2473	522	66	1965
Wire-reel	P. Hauck	512,023	Jan. 2	489	116	66	94
Wire-reel	F. Krupicka	512,720	Jan. 16	1641	394	66	337
Wire reel and stretcher	H. Frick	519,037	May 1	160	38	67	567
Wire-reeler	G. E. Dixon	519,789	May 15	1515	369	67	848
Wire-reeling machine	J. A. List	516,894	Mar. 20	1923	453	66	1843
Wire-reeling truck	J. Nagel	515,870	Mar. 6	219	51	66	1494
Wire rods. Apparatus for treating	C. W. Bildt	526,433	Sept. 25	1964	468	68	1550
Wire-rolling apparatus	P. Schrader	529,200	Nov. 13	1218	294	69	886
Wire-rolling apparatus	P. Schrader	529,201	Nov. 13	1219	294	69	887
Wire spacer and twister	J. H. Rogers	529,807	Nov. 27	2271	542	69	1108
Wire-splicing device	A. Kile	524,255	Aug. 7	485	112	68	749
Wire spool or reel	C. Beck	515,737	Mar. 6	2	1	66	1455
Wire-stay-weaving device	E. H. Stowell and G. W. Terry	529,211	Nov. 13	1236	297	69	890
Wire-stretcher	S. Allison	528,218	Oct. 30	2610	629	69	540
Wire-stretcher	J. W. Austin	527,311	Oct. 9	1041	253	69	207
Wire-stretcher	G. J. Cline	517,842	Apr. 10	703	178	67	151
Wire-stretcher	J. E. Crisp	528,151	Oct. 30	2490	603	69	519
Wire-stretcher	E. A. Eustice	513,993	Feb. 6	35	7	66	860
Wire-stretcher	W. S. Fitzgerald	529,374	Nov. 20	1530	366	69	966
Wire-stretcher	W. E. Green	529,648	Nov. 20	2011	481	69	1052
Wire-stretcher	J. H. Gregory	513,778	Jan. 30	3415	842	66	776
Wire-stretcher	G. W. Hughes	518,406	Apr. 17	1685	417	67	341
Wire-stretcher	J. M. Myers	525,962	Sept. 11	1125	256	68	1369
Wire-stretcher	W. P. Negus	513,816	Jan. 30	3473	855	66	788
Wire-stretcher	A. Nickle	531,209	Dec. 18	1992	473	69	1607
Wire-stretcher	L. A. Palmar	513,437	Jan. 23	2819	692	66	632
Wire-stretcher	L. Roadhouse	524,352	Aug. 14	679	165	68	801
Wire-stretcher	J. S. Sparkman	512,629	Jan. 9	1483	358	66	292
Wire stretcher and splicer	O. Marshall	525,560	Sept. 4	411	99	68	1227
Wire-stretcher and staple-puller. Combined	G. H. Wilber	527,008	Oct. 2	550	134	69	104
Wire-stretching machine	W. A. Lambert	519,456	May 8	931	225	67	730
Wire-stretching spool-carrier	T. P. Williams	524,453	Aug. 14	852	209	68	834
Wire-stripper	J. J. Bettinger	520,818	June 5	113	25	67	1217
Wire strips or the like by electrodeposition. Manufacture of	R. D. Sanders	525,800	Sept. 11	835	189	68	1316
Wire-swaging machine	E. W. Vaughan and E. J. Watson	524,742	Aug. 21	1325	324	68	934
Wire tension device, splicer, and stretcher. Combined	W. T. Loomis	512,728	Jan. 16	1650	396	66	339
Wire-tightener	C. H. Dickinson	523,032	July 17	1482	369	68	311
Wire-tightener	W. B. Fielding	513,906	Jan. 30	3614	891	66	816
Wire-tightener	M. I. Hochstetler	530,181	Dec. 4	186	46	69	1248
Wire-tightener	C. H. Van Wagoner	528,194	Oct. 30	2565	621	69	532
Wire-twister	J. W. Alverson	514,692	Feb. 13	1195	298	66	1096
Wire-twisting machine	R. Sedgwick	520,617	May 29	2909	703	67	1137
Wire webs. Mechanism for weaving	L. Lake and G. P. Rishel	514,324	Feb. 6	601	151	66	965
Wire-working. Hand-tool for	G. D. Lockwood	514,371	Feb. 6	668	169	66	978
Wires from metal disks or plates. Machine for forming	F. H. Howe	526,230	Sept. 18	1579	371	68	1463
Womb-battery	J. C. Petit	520,895	June 5	260	62	67	1245
Wood articles. Machine for shaping	C. F. Overhiser	529,505	Nov. 20	1782	424	69	1009
Wood-bending machine	J. Dawson	527,325	Oct. 9	1064	257	69	211
Wood-box, kindling and ash receptacle. Combined	J. H. McIntosh, Sr.	515,353	Feb. 27	2283	566	66	1326
Wood-bundling machine. Kindling	D. S. Abbott and G. G. Parker	529,231	Nov. 13	1269	305	69	896
Wood-carving machine	A. Saunders and J. Story	514,731	Feb. 13	1270	317	66	1110
Wood. Compound for bleaching and preserving	S. Cabot	515,191	Feb. 20	1930		66	1259
Wood-cutting machine	D. R. Edwards	524,274	Aug. 7	513	119	68	754
Wood-cutting machine	W. F. Hutchinson	529,386	Nov. 20	1551	371	69	969
Wood-cutting machine	W. Merrill	526,043	Sept. 18	1254	290	68	1495
Wood-cutting machine	W. Merrill	526,044	Sept. 18	1256	291	68	1405
Wood-cutting machine	W. Merrill	526,354	Sept. 18	1789	424	68	1505
Wood-embossing machine	F. Berner, Jr.	511,326	Jan. 2	341	79.80	66	65
Wood-embossing machine	G. Staber	518,902	Apr. 24	2534	627	67	508
Wood-filler. Liquid	C. Klenk	524,781	Aug. 21	1393		68	947
Wood-graining machine	G. Pelstring	523,235	July 17	1838	463	68	376
Wood-grinding machines. Feeding mechanism for	A. F. Unger	524,796	Aug. 21	1417	347	68	951
Wood. Kindling	W. F. Hutchinson	518,247	Apr. 17	1401	351	67	289
Wood. Preserving	J. R. Bate	522,284	July 3	192	52	68	40
Wood-preserving compound	A. D. Polsgrove	529,834	Nov. 27	2326		69	1119
Wood-scraper	F. J. Perkins	516,225	Mar. 13	803	188	66	1618
Wood-shredding machine	G. P. Johnson	511,778	Jan. 2	55	14.15	66	13
Wood-splice	W. H. Lewis	529,395	Nov. 20	1577	375	69	973
Wood-turning machine	J. J. Sherman, Jr.	524,870	Aug. 21	1542	376	68	973
Wood. Vulcanizing	C. Howard	520,597	May 29	2281	697	67	1132
Wood. Vulcanizing and drying	C. Howard	520,565	May 29	2289	683	67	1132
Wooden pipe	E. T. Wheeler	517,909	Apr. 10	808	203	67	170

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wooden rim, band, &c.	S. Elliott	529,112	Nov. 13	1057	255	69	858
Wooden shovel	I. Lemieux	525,149	Ang. 28	2053	501	68	1081
Wooden vessels. Manufacture of	T. K. Parrish	518,158	Apr. 10	1229	309	67	240
Woodworking-machine	M. W. and C. C. Cory	513,964	Jan. 30	3703	912	66	834
Woodworking-machine	J. S. Graham and J. Kane	522,754	July 10	1015	251	68	207
Woodworking-machine	W. Lyon	518,529	Apr. 17	1894	469	67	378
Woodworking-machine	W. Lyon	522,475	July 3	516	131	68	102
Woodworking-machine	F. Perkins	513,056	Jan. 16	2226	534	66	447
Woodworking-machine	C. Seymour	521,185	June 12	769	180	67	1349
Woodworking-machine	W. T. Smith	514,607	Feb. 13	1060	265	66	1070
Woodworking-machine	J. H. Sears	516,776	Mar. 20	1733	408	66	1806
Woodworking-machines. Carrier-chain for feeding boards to	B. G. Luther	522,223	July 3	84	19	68	17
Woodworking machinery. Anti-vibratory pressure-bar for	A. Premo	521,346	June 12	1068	250	67	1405
Wool. Apparatus for extracting oil from	F. N. Turney	522,130	June 26	2443	588	67	1693
Wool. Apparatus for removing vegetable matter from	J. Chase	514,413	Feb. 6	724	184	66	990
Wool-drier	W. White	523,875	July 31	2968	739	68	615
Wool-drying product.	E. Godchaux	515,077	Feb. 20	1807	—	66	1225
Wool-washing machine	W. and A. W. Blackburn	519,625	May 8	1246	299	67	785
Wool-washing machine	G. L. P. Eyre and T. J. Hopkins	517,566	Apr. 3	244	57, 58	67	48
Wool-washing machine	D. H. Rice	521,817	June 26	1894	454	67	1591
Wool-washing machine	D. H. Rice	521,818	June 26	1896	454	67	1592
Wool-washing machine	F. G. Sargent	521,823	June 26	1902	456	67	1593
Wool-washing machine	F. G. and A. C. Sargent	528,182	Oct. 30	2541	616	69	529
Work-box	S. F. B. O'Leary	525,509	Sept. 4	312	77	68	1210
Work-holder	C. E. Blue	518,750	Apr. 24	2267	568	67	461
Work-holder	S. D. Erb	525,950	Sept. 11	1089	248	68	1361
Work-holder	M. P. C. Hooper	517,860	Apr. 10	727	183	67	155
Work-support. Adjustable.	L. P. Davis	530,258	Dec. 4	319	79	69	1273
Working-barrel protector	C. E. Lasher, W. J. Webster, and D. L. Newton.	518,108	Apr. 10	1154	290	67	227
Wort-cooler	H. E. Deckebach	527,197	Oct. 9	844	206	69	172
Woven fabric	W. G. Connell	522,555	July 3	647	164	68	127
Woven fabric	W. G. Connell	522,556	July 3	650	165	68	127
Woven fabric	H. Hardwick	524,321	Aug. 14	604	145	68	790
Woven pile fabric.	H. Hardwick	529,858	Nov. 27	2369	567	69	1127
Wrapper-holder.	R. E. Glasgow	512,019	Jan. 2	484	115	66	93
Wrapper or envelope	P. J. Ogle	519,158	May 1	394	95	67	613
Wrappers or blanks of paper and metal foil. Machine for forming	A. G. Hotchkiss	516,932	Mar. 20	1988	467	66	1855
Wrappers or labels around boxes, cakes, &c. Machinery for securing	A. Stearns	522,723	July 10	936	234	68	195
Wrapping-machine	L. C. Crowell	517,440	Apr. 3	31	7, 8, 9	67	8
Wrapping-machine	I. R. Hutchinson	530,529	Dec. 11	813	202	69	1380
Wrapping-machine	S. D. Tripp	516,136	Mar. 6	639	150	66	1572
Wrapping-machine	C. J. Weinman and E. E. Euchenhofer.	528,751	Nov. 6	399	96	69	719
Wrapping machine. Newspaper.	L. C. Crowell	517,441	Apr. 3	40	9, 10	67	9
Wrapping machine. Newspaper.	L. C. Crowell	517,442	Apr. 3	44	10, 11	67	10
Wrapping machine. Newspaper.	L. C. Crowell	522,198	July 3	23	7	68	7
Wrapping machine. Paper.	C. M. and H. D. Bartholomew	529,848	Nov. 27	2350	560	69	1124
Wrapping newspapers, &c. Machine for	L. C. Crowell	527,521	Oct. 16	1391	338	69	287
Wrapping newspapers. Method of and machine for.	L. C. Crowell	522,197	July 3	17	5, 6	68	6
Wrapping table. Bundle.	C. Spiro	523,056	July 17	1514	379	68	318
Wrench:							
See Adjustable wrench. Pipe or nut wrench.							
Chain-wrench. Pipe or nut wrench.							
Combination-wrench. Ratchet-wrench.							
Monkey-wrench. Ratchet and monkey wrench.							
Monkey and pipe wrench.							
ratchet-wrench. Tap-wrench.							
Nipple-wrench. Tire-bolt wrench.							
Nut-wrench. Vehicle-wrench.							
Pipe-wrench. Wheel-wrench.							
Pipe and nut wrench.							
Wrench	A. Assorati	525,575	Sept. 4	433	103	68	1231
Wrench	A. Bareis	521,076	June 5	578	136	67	1302
Wrench	W. C. Barr	521,428	June 12	1199	284	67	1430
Wrench	C. Black	516,182	Mar. 13	729	171	66	1604
Wrench	F. E. Burgevin	521,562	June 19	1423	347	67	1498
Wrench	C. Carlson	520,392	May 22	2538	613	67	1053
Wrench	D. H. Carpenter	515,070	Feb. 20	1798	454	66	1223
Wrench	T. E. Chatten	520,411	May 29	2568	621	67	1075
Wrench	J. M. Cochran	527,592	Oct. 16	1508	366	69	308
Wrench	L. Coes	524,574	Aug. 14	1044	257	68	869
Wrench	J. F. Cook	516,591	Mar. 13	1416	336	68	1731
Wrench	H. Cooper	512,159	Jan. 2	725	176	66	138
Wrench	L. P. Davidson	513,308	Jan. 23	2625	636	66	596
Wrench	J. Fatkin	530,029	Nov. 27	2650	644	69	1165
Wrench	E. H. Goslin	513,916	Jan. 30	3629	844	66	819
Wrench	W. H. Haire	514,459	Feb. 13	796	205	66	1022

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Invention.	Name.	No.	Date.	Monthly volume.		Official Gazette.	
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Wrench.....	W. Houghton.....	514,993	Feb. 20	1674	420	66	1202
Wrench.....	E. A. Humphrey.....	514,752	Feb. 13	1302	324	66	1116
Wrench.....	W. G. Johnson.....	512,709	Jan. 16	1626	390	66	334
Wrench.....	K. A. Klose.....	520,529	May 29	2767	669	67	1110
Wrench.....	J. U. Kraft.....	514,477	Feb. 13	839	213	66	1028
Wrench.....	H. Krebs.....	520,689	May 29	3044	737	67	1162
Wrench.....	W. C. Lawrence.....	529,624	Nov. 20	1972	470	69	1045
Wrench.....	J. A. Lowe.....	518,041	Apr. 10	1051	266	67	209
Wrench.....	J. T. Matthews.....	513,271	Jan. 23	2574	623	66	586
Wrench.....	A. McCallum.....	521,123	June 5	656	154	67	1315
Wrench.....	F. W. Nelson.....	527,181	Oct. 9	820	199	69	163
Wrench.....	W. A. Papoun.....	513,594	Jan. 30	3114	765	66	721
Wrench.....	J. T. Pedersen.....	513,619	Jan. 30	3160	775	66	729
Wrench.....	W. E. Pugsley.....	527,156	Oct. 9	783	191	69	160
Wrench.....	J. A. Reynolds.....	525,282	Aug. 28	2268	552	68	1121
Wrench.....	R. S. Rust.....	516,281	Mar. 13	893	211	66	1636
Wrench.....	A. Sellers.....	531,279	Dec. 18	2120	508	69	1631
Wrench.....	F. S. Seymour.....	514,781	Feb. 13	1348	337	66	1125
Wrench.....	W. N. Smith.....	529,632	Nov. 20	1985	474	69	1047
Wrench.....	J. L. Stambaugh.....	528,398	Oct. 30	2916	706	69	595
Wrench.....	O. C. Stanley.....	517,074	Mar. 27	2255	533	66	1922
Wrench.....	C. Tinglöff.....	523,020	July 17	1462	364	68	307
Wrench.....	G. Trakofler.....	523,136	July 17	1668	418	68	346
Wrench.....	W. J. Walker.....	512,418	Jan. 9	1147	278	66	228
Wrench.....	M. Wenger.....	525,435	Sept. 4	198	49	63	1188
Wrench.....	T. Wheatley.....	520,039	May 22	2023	494	67	958
Wrench.....	A. L. Winge.....	527,643	Oct. 16	1539	384	69	323
Wrench and bit-stock.....	H. Polis.....	526,658	Sept. 25	2318	555	68	1615
Wrench and oiler. Combined.....	T. Tierney.....	528,574	Nov. 6	90	23	69	662
Wrench and pipe and thread cutter. Combined.....	R. Haberthür.....	521,265	June 12	910	215	67	1375
Wrench. Combination.....	E. O. Ely.....	516,191	Mar. 13	750	175	66	1608
Wrench. Combination.....	H. A. Post.....	517,393	Mar. 27	2516	653	66	2032
Wrench for pipes, rods, &c.....	C. Hall.....	521,312	June 12	896	234	67	1391
Wrench or clamp adjustment.....	W. J. Wright.....	526,476	Sept. 25	2034	484	68	1562
Wringer: See Clothes-wringer. Mop-wringer.							
Wringing-machine.....	A. Burkholder.....	529,592	Nov. 20	1927	459	69	1037
Writing-machine.....	E. Griffin.....	518,499	Apr. 17	1843	457	67	369
Writing-machine.....	W. B. Wait.....	521,397	June 13	1142	270 271	67	1420
Writing-machine.....	W. B. Wait.....	529,571	Nov. 20	1897	451 452	69	1630
Writing-machine.....	W. B. Wait.....	529,572	Nov. 20	1899	452 453	69	1031
Writing-packet and copy-holder. Combined.....	G. G. and E. S. Burton.....	514,541	Feb. 13	941	237 238	66	1048
Wrist-pin. Adjustable.....	F. L. Stone.....	530,910	Dec. 11	1444	343	69	1494
Yarn-creel.....	J. Semple.....	524,957	Aug. 21	1682	412	68	997
Yarn or thread into carriers. Mechanism for drawing.....	H. Wyman and J. A. Clark.....	516,147	Mar. 6	664	156	66	1577
Yeast. Manufacturing.....	A. Myers.....	528,643	Nov. 6	222	55, 56	69	686
Yoke attachment. Neck.....	H. T. Richmond.....	527,372	Oct. 9	1144	280	69	227
Yoke attachment. Neck.....	C. C. Schwaner.....	530,355	Dec. 4	493	122	69	1304
Yoke center. Neck.....	H. T. Richmond.....	527,373	Oct. 9	1145	281	69	227
Yoke center. Neck.....	J. Thielen.....	523,383	July 24	2086	525	68	439
Yoke center. Neck.....	E. M. Van Valkenburg.....	512,768	Jan. 16	1757	417	66	360
Yoke center. Neck.....	E. M. Van Valkenburg.....	516,138	Mar. 6	648	151	66	1574
Yoke. Neck.....	J. S. Brown.....	527,660	Oct. 16	1614	389	69	328
Yoke. Neck.....	C. B. Hobron.....	523,573	July 24	2422	608	68	499
Yoke. Neck.....	M. L. Rogers.....	511,908	Jan. 2	309	72	66	60
Zinc from ores. Extracting.....	L. Klöz.....	518,890	Apr. 24	2514	622	67	504
Zinc-lead-sulfid ores. Treating.....	S. H. Emmens.....	513,490	Jan. 30	2932	.....	66	688
Zinc. Manufacturing oxid of.....	E. O. Bartlett.....	515,043	Feb. 20	1757	443	66	1215
Zinc ores. Treatment of.....	W. R. Ingalls and F. Wyatt.....	516,016	Mar. 6	458	.....	66	1537
Zinc. Preparing solutions carrying salts of.....	P. C. Choate.....	512,362	Jan. 9	1041	.....	66	208
Zinc. Producing metallic.....	P. C. Choate.....	512,361	Jan. 9	1039	.....	66	208
Zinc. Producing metallic.....	P. C. Choate.....	518,711	Apr. 24	2219	553	67	449
Zinc. Producing metallic.....	P. C. Choate.....	518,732	Apr. 24	2259	561	67	456
Zither. Guitar.....	F. Menzenhauer.....	520,651	May 29	2961	716 717	67	1147

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Advertising-breastpin.....	G. H. Elmer	23,109	Mar. 13	66	1749
Advertising-check.....	H. J. Heinz	23,657	Sept. 25	68	1623
Air-heater, &c.....	C. I. Dangler and H. Ruppel.....	23,277	May 15	67	992
Ambulance-body.....	W. J. Scott	23,614	Aug. 28	68	1138
Annunciator dial. Electrical.....	C. F. Scattergood	23,112	Mar. 13	66	1749
Arch. Parlor.....	W. A. Kemp	23,453	July 10	68	275
Ash-receiver.....	W. H. O'Dwyer.....	23,110	Mar. 13	66	1749
Atomizer-top.....	C. F. Schrader	23,282	May 22	67	1057
Axle-box frame.....	W. S. Adams	23,278	May 15	67	922
Axle-box frame.....	J. A. Brill	23,087	Feb. 27	66	1444
Back bar.....	W. H. Peeps	23,028	Jan. 30	66	839
Badge.....	W. H. Bach	23,830	Dec. 4	69	1351
Badge.....	I. Bedichimer	23,789	Nov. 13	69	936
Badge.....	F. L. Brigham	23,007	Jan. 16	66	451
Badge.....	J. K. Davison	23,379	May 22	67	1057
Badge.....	C. F. Dorrance.....	23,788	Nov. 13	69	936
Badge.....	F. Ellis	23,816	Nov. 27	69	1204
Badge.....	W. C. Finck	23,342	June 12	67	1439
Badge.....	J. F. Keller	23,884	Dec. 25	69	1762
Badge.....	I. Larsen	23,493	July 24	68	525
Badge.....	J. H. Leyson	23,021	Jan. 30	66	838
Badge.....	J. O'Callahan.....	23,463	July 17	68	405
Badge.....	W. H. Walsh	23,831	Dec. 4	69	1351
Badge.....	B. S. Whitehead	23,817	Nov. 27	69	1204
Badge.....	B. S. Whitehead	23,832	Dec. 4	69	1351
Badge.....	B. S. Whitehead	23,858	Dec. 11	69	1497
Badge.....	B. S. Whitehead	23,859	Dec. 11	69	1497
Badge.....	J. Wood	23,235	May 1	67	669
Badge-heading.....	E. L. Torsch and J. R. Lee	23,058	Feb. 13	66	1160
Banner-holder.....	T. Günzel	23,258	May 8	67	806
Bar-fixture.....	B. Bark	23,511	July 24	68	528
Bar-fixture.....	B. Bark	23,512	July 24	68	528
Bar-fixture.....	A. Cryer	23,142	Mar. 20	66	1887
Bath-tub.....	W. Scott	23,583	Aug. 21	68	1017
Bath-tub leg.....	W. C. Peet	23,351	June 12	67	1440
Battery-case.....	W. Morison	23,916	Dec. 25	69	1767
Bedsread.....	W. White	23,488	July 24	68	524
Bedsread.....	W. White	23,489	July 24	68	524
Bedsread.....	W. White	23,490	July 24	68	524
Bedsread.....	W. White	23,491	July 24	68	524
Bedsread.....	W. White	23,492	July 24	68	525
Bedstead.....	F. Hoskins	23,710	Oct. 16	69	363
Belt-pocket.....	R. S. Porro	23,683	Oct. 9	69	236
Bicycle-clip holding-block.....	G. E. Curtis	23,160	Mar. 27	66	2047
Bicycle-crank.....	W. J. Grinden	23,640	Sept. 11	68	1385
Bicycle-frame.....	F. C. Avery	23,482	July 17	68	408
Bicycle-frame.....	F. G. Stark	23,395	June 19	67	1566
Bicycle-lantern.....	F. Rhind	23,582	Aug. 21	68	1016
Bicycle-wheel rim.....	C. L. Ames	23,015	Jan. 23	66	646
Billiard-table.....	M. Bensinger	23,221	Apr. 24	67	522
Billiard-table cushion-rail bolts. Covering-plate for.....	M. Bensinger	23,670	Oct. 2	69	115
Bonbon.....	C. E. Gardiner	23,691	Oct. 16	69	360
Bonbon.....	E. J. Kaltenbach.....	23,646	Sept. 18	68	1514
Bonbon.....	W. M. Lowney	23,400	June 26	67	1714
Book-mark.....	L. L. Huestis	23,060	Feb. 13	66	1160
Book-marker.....	B. S. Samuels	23,076	Feb. 20	66	1302
Boot.....	B. Nathan	23,234	May 1	67	669
Booth.....	G. Servadio	23,478	July 17	68	407
Border. Metallic.....	G. W. Shiebler	23,517	July 31	68	649
Border. Metallic.....	C. C. Wientge	23,145	Mar. 20	66	1888
Bottle.....	W. C. Bevan	23,550	Aug. 7	68	764
Bottle.....	D. F. Davids	23,274	May 15	67	921
Bottle.....	A. Dryfoos	23,240	May 1	67	670
Bottle.....	H. W. Fay and R. J. Schueler.....	23,100	Mar. 6	66	1586
Bottle.....	C. Gulden	23,892	Dec. 25	69	1763
Bottle.....	W. L. Juhring	23,352	June 12	67	1440
Bottle.....	W. L. Juhring	23,380	June 19	67	1564
Bottle.....	C. H. Lee	23,399	June 26	67	1714
Bottle.....	G. Lloyd	23,174	Apr. 10	67	263
Bottle.....	B. I. Mott	23,275	May 15	67	921
Bottle, &c.....	J. A. Shephard.....	23,413	July 3	68	135
Bottle.....	C. A. Tatum	23,381	June 19	67	1564
Bottle.....	C. A. Tatum	23,874	Dec. 11	69	1499
Bottle.....	J. H. Valentine.....	23,466	July 17	68	405
Bottle.....	C. H. West	23,891	Dec. 25	69	1763
Bottle.....	H. Williams	23,834	Dec. 4	69	1352
Bottle-stopper.....	J. A. Shephard.....	23,412	July 3	68	134
Bottle-stopper.....	C. A. Tatum	23,175	Apr. 10	67	263
Bottle-stopper.....	C. A. Tatum	23,176	Apr. 10	67	263
Bowl and slab. Wash.....	J. H. Gavin	23,805	Nov. 13	69	938
Bowl and slab. Wash.....	J. H. Gavin	23,806	Nov. 13	69	938

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Bowl and slab. Wash.	J. H. Gavin	23,294	Dec. 25	69	1763
Bowl and slab. Wash.	J. H. Gavin	23,295	Dec. 25	69	1763
Bowl or similar article	H. Berry	23,313	May 29	67	1183
Bowl or similar article	H. Berry	23,314	May 29	67	1183
Bowl or similar article	H. Berry	23,315	May 29	67	1183
Box	S. W. Babbitt	23,312	May 29	67	1183
Box	F. W. Barthman, Jr	23,445	July 10	68	274
Box	F. W. Barthman, Jr	23,297	Dec. 25	69	1764
Box	F. J. Edgars	23,848	Dec. 4	69	1354
Box	F. J. Edgars	23,849	Dec. 4	69	1354
Box	F. J. Edgars	23,850	Dec. 4	66	1354
Box	F. J. Edgars	23,851	Dec. 4	69	1354
Box	A. A. Low	23,548	Aug. 7	68	764
Box	A. J. Roscoe	23,191	Apr. 10	67	265
Box. Fancy	E. Jansen	23,330	June 5	67	1323
Box. Ornamental	E. L. Edes	23,102	Mar. 6	66	1586
Box. Pocket-	C. W. Sedgwick	23,516	July 31	68	649
Box. Wooden	F. J. Edgars	23,296	Dec. 25	69	1764
Bracket	J. H. Gavin	23,730	Oct. 23	69	502
Bracket	J. H. Gavin	23,273	Dec. 11	69	1499
Bracket	S. H. Randall	23,223	Apr. 24	67	522
Bracket. Shelf	C. M. Burgess	23,731	Oct. 23	69	502
Braid	B. Lipper	23,084	Feb. 27	66	1443
Braid	B. Lipper	23,085	Feb. 27	66	1443
Braid	V. G. Schuck	23,186	Apr. 10	67	265
Braid	V. G. Schuck	23,208	Apr. 24	67	520
Bread. Loaf of	W. H. Ward	23,574	Aug. 21	68	1015
Brooch	W. Durand	23,368	June 19	67	1563
Brooch	W. Durand	23,369	June 19	67	1563
Brooch	W. Durand	23,370	June 19	67	1563
Brooch	W. Durand	23,371	June 19	67	1563
Brooch	W. Durand	23,372	June 19	67	1563
Brooch	W. Durand	23,373	June 19	67	1563
Brooch	W. Durand	23,374	June 19	67	1563
Brooch	W. Durand	23,375	June 19	67	1563
Brooch	W. Durand	23,376	June 19	67	1563
Brooch	W. Durand	23,377	June 19	67	1563
Brooch	W. Durand	23,378	June 19	67	1563
Brooch	W. Durand	23,398	June 26	67	1714
Brooch	W. Scheer	23,458	July 17	68	404
Brooch	W. Scheer	23,459	July 17	68	405
Brooch	W. Scheer	23,460	July 17	68	405
Brooch	W. Scheer	23,461	July 17	68	405
Brooder	E. Barney	23,168	Apr. 3	67	133
Brush-handle	W. J. Lloyd	23,749	Oct. 30	69	634
Brush. Hat-	A. S. Miles	23,367	June 19	67	1562
Brush holder. Tooth-	C. L. Wagandt	23,038	Feb. 6	66	996
Brushes, &c. Back for	C. Graff	23,151	Mar. 27	66	2045
Brushes, &c. Back for	C. C. Wientge	23,608	Oct. 2	69	115
Brushes, &c. Back of	G. W. Shiebler	23,331	June 5	67	1323
Buckle	G. M. Aylesworth	23,343	June 12	67	1439
Buckle	C. C. Krouse	23,721	Oct. 23	69	500
Buckle. Sash-ribbon	W. A. Fearn	23,032	Feb. 6	66	995
Building-block	J. A. Merley	23,063	Feb. 13	66	1161
Burner	E. L. Bearse	23,035	Feb. 6	66	996
Button and thread card	O. A. De Long	23,134	Mar. 20	66	1886
Button-case	J., Jr., and A. Wiedemeier	23,268	Dec. 11	69	1498
Button-hook, &c.	J. L. Sommer	23,562	Dec. 11	69	1497
Cabinet	J. G. Schumm	23,907	Dec. 25	69	1765
Cabinet	F. G. Shoudy	23,219	Apr. 24	67	521
Cabinet	F. G. Shoudy	23,220	Apr. 24	67	522
Cabinet	H. T. Van Denbergh	23,002	Jan. 9	66	308
Cabinet	H. T. Van Denbergh	23,003	Jan. 9	66	308
Cake	F. Callard	23,275	Dec. 11	69	1499
Campaign souvenir	N. Grevstad	23,644	Sept. 18	68	1514
Candelabrum-pedestal	C. C. Wientge	23,181	Apr. 10	67	264
Cane-handle	A. Kromse	23,039	Feb. 6	66	996
Cap	O. D. Shaw	23,009	Jan. 16	66	451
Cape	J. Adler	23,094	Mar. 6	66	1585
Car-body	J. Commerford	23,206	Apr. 17	67	395
Car-seat end	G. M. Brill	23,203	Nov. 13	69	937
Card back. Playing-	J. Omwake	23,135	Mar. 20	66	1856
Card back. Playing-	J. Omwake	23,238	May 1	67	609
Card-holder	M. T. Balfour	23,006	Jan. 16	66	451
Carpet	W. B. Brown	23,484	July 17	68	408
Carpet	W. F. Brown	23,207	Apr. 24	67	520
Carpet	W. F. Brown	23,261	May 15	67	919
Carpet	W. F. Brown	23,486	July 24	68	523
Carpet	J. H. Chadwick	23,556	Aug. 14	68	907
Carpet	P. C. Chambellan	23,714	Oct. 23	69	499
Carpet	P. C. Chambellan	23,715	Oct. 23	69	499
Carpet	J. R. Cochrane	23,487	July 24	68	524
Carpet	E. Fisher	23,440	July 10	68	273
Carpet	C. F. Gedney	23,847	Dec. 4	69	1353
Carpet	C. F. Gedney	23,878	Dec. 18	69	1636
Carpet	C. F. Gedney	23,879	Dec. 18	69	1636
Carpet	A. L. Halliday	23,782	Nov. 6	69	783
Carpet	A. L. Halliday	23,889	Dec. 25	69	1763
Carpet	H. Horan	23,233	May 1	67	609
Carpet	H. Horan	23,441	July 10	68	273
Carpet	H. Horan	23,442	July 10	68	273
Carpet	W. L. Jacobs	23,231	May 1	67	608
Carpet	G. Marchetti	23,362	June 12	67	1441
Carpet	G. Marchetti	23,363	June 12	67	1442

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Carpet.....	G. Marchetti.....	23,407	July 3	68	134
Carpet.....	G. Marchetti.....	23,438	July 10	68	272
Carpet.....	G. Marchetti.....	23,439	July 10	68	273
Carpet.....	J. B. Neil.....	23,783	Nov. 6	69	753
Carpet.....	A. M. Rose.....	23,092	Mar. 6	66	1585
Carpet.....	A. M. Rose.....	23,262	May 15	67	919
Carpet.....	A. M. Rose.....	23,532	Aug. 7	68	762
Carpet.....	A. M. Rose.....	23,784	Nov. 6	69	784
Carpet.....	A. M. Rose.....	23,785	Nov. 6	69	784
Carpet.....	A. M. Rose.....	23,786	Nov. 6	69	784
Carpet.....	A. M. Rose.....	23,823	Nov. 27	69	1205
Carpet.....	A. M. Rose.....	23,843	Dec. 4	69	1353
Carpet.....	A. M. Rose.....	23,844	Dec. 4	69	1353
Carpet.....	A. M. Rose.....	23,845	Dec. 4	69	1353
Carpet.....	A. M. Rose.....	23,846	Dec. 4	69	1353
Carpet.....	A. M. Rose.....	23,863	Dec. 11	69	1497
Carpet.....	A. M. Rose.....	23,864	Dec. 11	69	1498
Carpet.....	A. M. Rose.....	23,860	Dec. 18	69	1636
Carpet.....	A. M. Rose.....	23,861	Dec. 18	69	1636
Carpet.....	A. M. Rose.....	23,888	Dec. 25	69	1762
Carpet.....	E. G. Sauer.....	23,232	May 1	67	669
Carpet.....	E. G. Sauer.....	23,625	Sept. 4	68	1269
Carpet.....	E. G. Sauer.....	23,693	Oct. 16	69	360
Carpet.....	E. G. Sauer.....	23,841	Dec. 4	69	1353
Carpet.....	E. G. Sauer.....	23,842	Dec. 4	69	1353
Carpet-body.....	A. M. Rose.....	23,821	Nov. 27	69	1204
Carpet-border, &c.....	H. Horan.....	23,485	July 17	68	408
Carpet-border.....	A. M. Rose.....	23,822	Nov. 27	69	1205
Carpet button. Stair.....	D. Walker and R. H. Warren.....	23,628	Sept. 4	68	1269
Carpet button. Stair.....	R. H. Warren and D. Walker.....	23,347	June 12	67	1439
Carpet fastener. Stair.....	J. Day.....	23,158	Mar. 27	66	2046
Carpet fastener. Stair.....	J. Day.....	23,159	Mar. 27	66	2047
Casket.....	L. K. Smedes.....	22,995	Jan. 2	66	165
Caster.....	G. E. Rowe.....	23,688	Oct. 16	69	359
Ceilings. Center-piece for metallic.....	W. S. Grafton.....	23,081	Feb. 20	66	1303
Ceilings. Corner-piece for metallic.....	W. S. Grafton.....	23,052	Feb. 6	66	998
Ceilings. Miter-piece for metallic.....	W. S. Grafton.....	23,054	Feb. 6	66	999
Ceilings. T-piece for metallic.....	W. S. Grafton.....	23,053	Feb. 6	66	998
Centrifugal-machine casing.....	H. B. Weiper.....	23,648	Sept. 18	68	1514
Chafing-dish.....	S. Sternau.....	23,768	Nov. 6	69	781
Chafing-dish stand.....	S. Sternau.....	23,769	Nov. 6	69	781
Chafing-dish stand.....	S. Sternau.....	23,770	Nov. 6	69	781
Chain.....	F. W. Smith, Jr.....	23,639	Sept. 11	68	1385
Chain.....	I. N. Dann.....	23,008	Jan. 16	66	451
Chain.....	L. Oslund.....	23,425	July 3	68	136
Chain.....	A. Thonet.....	22,998	Jan. 2	66	166
Chain.....	A. Thonet.....	23,065	Feb. 13	66	1161
Chair. Student.....	E. E. Peck.....	23,066	Feb. 13	66	1161
Chair. Arm.....	J. McLean.....	23,471	July 17	68	406
Chair-seat.....	G. W. Rich.....	23,452	July 10	68	275
Chair-seat frame.....	F. A. Dennett.....	23,905	Dec. 25	69	1765
Chair. Step-ladder.....	F. H. Herhold.....	23,739	Oct. 23	69	503
Change-holder.....	A. A. Low.....	23,522	July 31	68	650
Cigar-boxes. Ornamental pattern for.....	S. D. George.....	23,669	Oct. 2	69	115
Cigar-bunch.....	E. Fischer.....	23,229	Apr. 24	67	523
Cigar-bunching machines. Frame for.....	N. Du Brul.....	23,702	Oct. 16	69	362
Cigar-bunching machines. Frame for.....	N. Du Brul.....	23,703	Oct. 16	69	362
Cigar-case.....	C. Walters.....	23,579	Aug. 21	68	1016
Cigar-clipping case.....	B. F. Ennis and J. Carr.....	23,140	Mar. 20	66	1887
Cigar-cutter case.....	J. L. Sweet.....	23,023	Jan. 30	66	838
Clamp frame. Rope.....	P. O. Olsson.....	23,870	Dec. 11	69	1498
Clasp for garment-supporters.....	E. D. Candee.....	23,332	June 5	67	1323
Clock-case.....	W. C. Brown.....	23,026	Jan. 30	66	839
Clock-case.....	J. Hopson, Jr.....	23,696	Oct. 16	69	361
Clock-case.....	J. Hopson, Jr.....	23,697	Oct. 16	69	361
Clock-case.....	J. Hopson, Jr.....	23,698	Oct. 16	69	361
Clock-case.....	J. Hopson, Jr.....	23,723	Oct. 23	69	501
Clock-case.....	J. Hopson, Jr.....	23,724	Oct. 23	69	501
Closet-shield.....	M. Peabody.....	23,561	Aug. 14	68	908
Clothes-line holder.....	J. Hoffmann and E. C. Hoffman.....	23,321	May 29	67	1184
Clothes-line reel.....	H. Cook.....	23,876	Dec. 11	69	1499
Clothes-pounder.....	H. W. Potteiger and W. A. Kohman.....	23,357	June 12	67	1441
Coffee or tea pot body.....	M. C. Roessle.....	23,882	Dec. 18	69	1636
Coffin-plate.....	H. I. Hirschfeld.....	23,043	Feb. 6	66	997
Coin-controlled-machine case.....	G. Sittmann and W. H. Pitt.....	23,190	Apr. 10	67	265
Coin-receiver case.....	C. C. Clawson.....	23,154	Mar. 27	66	2046
Coin-receiver case.....	C. C. Clawson.....	23,155	Mar. 27	66	2046
Converter-box.....	J. W. Packard.....	23,143	Mar. 20	66	1887
Color-plate.....	A. J. Morrow.....	23,913	Dec. 25	69	1766
Column.....	A. A. Fenn.....	23,678	Oct. 2	69	116
Cooler or refrigerator.....	J. A. Flesch.....	23,179	Apr. 10	67	263
Counter.....	B. Bark.....	23,509	July 24	68	528
Counter.....	B. Bark.....	23,510	July 24	68	528
Counter. Sales.....	W. C. Huss.....	23,706	Oct. 16	69	362
Counters. Wall-fixture for.....	W. C. Huss.....	23,454	July 10	68	275
Counters. Wall-fixture for.....	W. C. Huss.....	23,455	July 10	68	276
Counters. Wall-fixture for.....	W. C. Huss.....	23,555	Aug. 7	68	765
Coupon.....	W. B. Bryan, I. M. Moore, and T. Meade.....	23,397	June 26	67	1714
Cracker or similar article.....	E. Ivins.....	23,078	Feb. 20	66	1303
Culinary vessels. Follower for.....	M. Krátky.....	23,012	Jan. 23	66	646
Cup.....	M. Redon.....	23,220	May 22	67	1057
Cup.....	M. Redon.....	23,221	May 22	67	1057
Cup. Drinking.....	C. L. Ingalls.....	23,682	Oct. 9	69	236

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Design.	Name.	No.	Date.	Official Gazette.	
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Curling-iron holder.....	M. A. Sheldon	23,137	Mar. 20	66	1886
Currycomb	W. P. Kellogg	23,872	Dec. 11	69	1499
Currycomb	H. P. Merriman	23,641	Sept. 11	68	1385
Dental cabinet	W. G. Hullhorst	23,189	Apr. 10	67	265
Dental cabinet	W. G. Hullhorst	23,852	Dec. 4	69	1354
Desk and seat	J. C. Gooding	23,248	May 1	67	671
Dial	G. E. Stoneburner	23,188	Apr. 10	67	265
Dish	C. E. Haviland	23,113	Mar. 13	66	1749
Dish	T. Steimer	23,495	July 24	68	525
Dish. Cover	W. Bloore	23,251	May 8	67	805
Dish. Cover	C. E. Haviland	23,149	Mar. 27	66	2045
Dish. Cover	C. A. May	23,077	Feb. 20	66	1302
Dish. Covered	C. W. Franzheim	23,748	Oct. 30	69	731
Dish. Covered	T. Haviland	23,773	Nov. 6	69	782
Dish. Covered	T. Haviland	23,774	Nov. 6	69	782
Dish. Covered	T. Haviland	23,775	Nov. 6	69	782
Dish. Covered	M. Redon	23,213	Apr. 24	67	580
Disinfectant-receptacle	T. S. Smith	23,734	Oct. 23	69	502
Display-board	J. H. Dexter	23,814	Nov. 13	69	939
Display-cabinet	J. E. Peirce and H. I. Shinkle	23,118	Mar. 13	66	1750
Display-case	R. Bruckmann	23,685	Oct. 9	69	237
Display-rack	W. E. Hefner	23,450	July 10	68	274
Display-rack	M. Mayer	23,655	Sept. 25	68	1023
Display-stand	G. A. Driggs	23,735	Oct. 23	69	502
Door frame. Screen	W. B. Phillips	23,319	May 29	67	1184
Door-pull or analogous article	C. Sotscheck	23,139	Mar. 20	66	1887
Door. Screen	E. M. Kemp	23,338	June 5	67	1325
Drug-box	M. J. Bogert	23,415	July 3	68	135
Dust-pan	M. C. Payne	23,676	Oct. 2	69	116
Dynamo-frame	C. E. Woods	23,743	Oct. 23	69	504
Eaves-trough	S. Silberstein	23,247	May 1	67	671
Egg-cup	W. R. Hill	23,898	Dec. 25	69	1761
Electric-wire fastening	H. Hubbell	23,322	May 29	67	1185
Electrical-instrument case	E. Weston	23,141	Mar. 20	66	1887
Electrical instruments. Supporting-frame for	E. Weston	23,156	Mar. 27	66	2046
Electrical instruments. Supporting-frame for	E. Weston	23,157	Mar. 27	66	2046
Emery-wheel dresser	A. Bender	23,323	May 29	67	1185
Engine. Pistol-grip	P. Chouteau	23,679	Oct. 2	69	116
Eraser	E. Faber	23,473	July 17	68	406
Eraser	L. W. Faber	23,411	July 3	68	131
Escutcheon. Door	G. E. Tyson	23,729	Oct. 23	69	501
Ewer, &c	H. Brunt	23,354	June 12	67	1440
Ewer or jug	D. F. Haynes	23,726	Oct. 23	69	501
Exhibition-stand	I. Hermann	23,079	Feb. 20	66	1303
Fabric. Ornamental	H. S. Lawson	23,887	Dec. 25	69	1762
Fabric-renovator	M. S. Kjellstrom	23,711	Oct. 23	69	499
Fabric. Woven	J. B. Morgan	23,835	Dec. 4	69	1352
Fabric. Woven	J. B. Morgan	23,836	Dec. 4	69	1352
Fabric. Woven	J. B. Morgan	23,837	Dec. 4	69	1352
Fabric. Woven	J. B. Morgan	23,838	Dec. 4	69	1352
Fabric. Woven	J. B. Morgan	23,839	Dec. 4	69	1352
Fabric. Woven	J. B. Morgan	23,840	Dec. 4	69	1352
Fan	A. W. Vollstorff	23,549	Aug. 7	68	761
Fan	R. Zimmermann	23,498	July 24	68	526
Fare-registers. Case for cash	J. B. King and G. W. Carhart	23,563	Aug. 14	68	908
Feed-trough	J. G. Davis	23,396	June 19	67	1566
Fence-panel	H. R. Van Eps	23,146	Mar. 20	66	188
Fence-post	W. J. Neelin	23,741	Oct. 23	69	503
Ferrule	H. A. Curtiss	23,344	June 12	67	1439
Finger-ring	W. O. Hutchins	23,210	Apr. 24	67	520
Finishing-plate	E. A. Langenbach	23,358	June 12	67	1441
Finishing-plate	E. A. Langenbach	23,513	July 24	68	528
Finishing-plate	R. H. Pratt	23,915	Dec. 25	69	1767
Fire-kindler holder	P. J. Harrah	23,355	June 12	67	1440
Fireplace	H. G. and W. R. Dawson	23,908	Dec. 25	69	1765
Fireplace	H. G. and W. R. Dawson	23,909	Dec. 25	69	1766
Fireplace	H. G. and W. R. Dawson	23,910	Dec. 25	69	1766
Fire-pot for forges	P. Powers	23,479	July 17	68	407
Fire-screen	J. A. L. Gist	23,337	June 5	67	1324
Fish-scaler	W. J. Ruedisale	23,752	Oct. 30	69	634
Float-ball	W. Boekel	23,499	July 24	68	526
Flower-stand	J. L. Symonds	23,906	Dec. 25	69	1765
Fork-scraper	W. J. Osterman	23,173	Apr. 10	67	263
Forks, &c. Handle for	C. Osborne	23,720	Oct. 23	69	500
Fringe	F. H. Caven	23,000	Jan. 2	66	166
Fringe	F. H. Caven	23,001	Jan. 2	66	166
Furnace-front	C. A. Barker	23,430	July 3	68	137
Galloon	F. Britsch	23,133	Mar. 20	66	1886
Game-apparatus base	F. M. Whiteman	23,647	Sept. 18	68	1514
Game-board	H. Gardner	23,036	Feb. 6	66	996
Game-board	C. B. Macneal	23,025	Jan. 30	66	839
Game-board	W. A. Wells	23,101	Mar. 6	66	1586
Game-board	G. H. Wildsmith	23,360	June 12	67	1441
Game-board	D. H. Warner	23,645	Sept. 18	68	1514
Gas-burner	L. Kahn	23,504	July 24	68	527
Gas-cock key	E. Lindner	23,225	Apr. 24	67	523
Geometrical block	L. L. Porter	23,086	Feb. 27	66	1443
Glass jar	F. R. Cornwall	23,871	Dec. 11	69	1499
Glass. Sheet	C. W. Cuddon	23,467	July 17	68	405
Glass vessel	J. D. Bergen	23,316	May 29	67	1183
Glass vessel	J. D. Bergen	23,317	May 29	67	1184
Glass vessel	J. J. O'Connor	23,807	Nov. 13	69	938
Glass vessel	H. Siegel	23,727	Oct. 23	69	501
Glass vessel	T. Singleton, Jr.	23,496	July 24	68	525

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Design.	Name.	No.	Date.	Official Gazette.	
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Glass vessel	T. Singleton, Jr.	23,497	July 24	68	526
Glass vessel	T. Singleton, Jr.	23,761	Nov. 6	69	781
Glass vessels. Ornamentation of	B. Davies	23,252	May 8	67	805
Glass vessels. Ornamentation of	B. Davies	23,253	May 8	67	805
Glass vessels. Ornamentation of	B. Davies	23,254	May 8	67	806
Globe or shade holder	L. J. Atwood	23,893	Dec. 25	69	1763
Globe, shade, &c	P. Shaw	23,776	Nov. 6	69	782
Grate. Air	J. Fischer	23,080	Feb. 20	66	1303
Grave-marker	S. B. Parker, J. K. Newell, and J. A. Turnbull	23,744	Oct. 23	69	504
Grocery-cabinet	J. E. Peirce	23,117	Mar. 13	66	1750
Guitar	J. A. Sutphen	23,725	Oct. 23	69	501
Gum. Tablet of chewing	G. M. Harsh	23,096	Mar. 6	66	1586
Hair-crimper	M. Schütz	23,016	Jan. 23	66	646
Halter-loop	J. N. Bull	23,064	Feb. 13	66	1161
Hame	W. H. Simmons	23,148	Mar. 20	66	1888
Hame-top	F. Frazer	23,147	Mar. 20	66	1888
Hammer	Z. Duchemin	23,169	Apr. 3	67	133
Hammock	I. E. Palmer	23,302	May 22	67	1059
Hammock	I. E. Palmer	23,303	May 22	67	1059
Hammock	I. E. Palmer	23,304	May 22	67	1060
Hammock	I. E. Palmer	23,305	May 22	67	1060
Hammock	I. E. Palmer	23,306	May 22	67	1060
Hammock	I. E. Palmer	23,307	May 22	67	1060
Hammock	I. E. Palmer	23,308	May 22	67	1060
Hammock	I. E. Palmer	23,309	May 22	67	1060
Hammock-hook	I. E. Palmer	23,349	June 12	67	1439
Hammock-hook	I. E. Palmer	23,350	June 12	67	1439
Handkerchief, &c	P. Cox	23,093	Mar. 6	66	1585
Handkerchief	P. Cox	23,433	July 10	68	271
Handkerchief	P. Cox	23,434	July 10	68	272
Handkerchief	P. Cox	23,435	July 10	68	272
Handkerchief	P. Cox	23,436	July 10	68	272
Handkerchief	P. Cox	23,437	July 10	68	272
Handle-bracket	T. B. Podbury	23,798	Nov. 13	69	937
Hanger	J. I. Flanagan	23,037	Feb. 6	66	996
Hanger	J. M. Andersen	23,244	May 1	67	670
Hanger	J. M. Andersen	23,245	May 1	67	670
Hanger	J. M. Andersen	23,246	May 1	67	670
Harness-hook	J. C. Covert	23,802	Nov. 13	69	937
Headlight-case	E. A. Edwards	23,754	Oct. 30	69	635
Rasp for garment-fasteners	H. Kerngood	23,255	May 8	67	806
Hat	J. Brandenstein	23,653	Sept. 25	68	1622
Heater case. Electric	M. W. Dewey	23,528	July 31	68	651
Heater. Gas	C. Whittingham	23,531	July 31	68	651
Heater stand. Oil or gas	A. C. West	23,393	June 19	67	1566
Heater stand. Oil or gas	A. C. West	23,394	June 19	67	1566
Hinge-leaf	W. H. Hart	23,477	July 17	68	407
Hinge-leaf	W. H. Hart	23,506	July 24	68	527
Hinge. Strap	W. H. Hart	23,257	May 8	67	806
Hinge. Strap	W. H. Hart	23,402	June 26	67	1714
Hinge. Strap	W. H. Hart	23,447	July 10	68	274
Holdback	J. H. Bastian	23,474	July 17	68	406
Hoof-pad	A. Mockford	23,701	Oct. 16	69	361
Hook	H. Davidson	23,656	Sept. 25	68	1623
Hook for garment-fasteners	H. Kerngood	23,256	May 8	67	806
Horse-boot	F. H. Wood	23,920	Dec. 25	69	1767
Horseshoe	J. C. Wiswell	23,661	Sept. 25	68	1623
Hub. Wheel	J. S. Bretz	23,742	Oct. 23	69	504
Ice-pick handle	C. W. Fox	23,138	Mar. 20	66	1887
Ironing-board	J. H. Fountain and H. S. Parker	23,738	Oct. 23	69	503
Jar cap. Preserve	E. M. Johnson	23,144	Mar. 20	66	1888
Junction-plate	C. W. Stimson	23,799	Nov. 13	69	937
Kettle	J. Bodenstein	23,638	Sept. 11	68	1385
Kettle	S. Sternau	23,762	Nov. 6	69	781
Kettle	S. Sternau	23,763	Nov. 6	69	781
Kettle-stand	S. Sternau	23,764	Nov. 6	69	781
Kettle-stand	S. Sternau	23,765	Nov. 6	69	781
Kettle-stand	S. Sternau	23,766	Nov. 6	69	781
Kettle-stand	S. Sternau	23,767	Nov. 6	69	781
Key-ring and guard. Combined	J. B. Merckels and M. Bievess	23,242	May 1	67	670
Key-top	R. S. Graham and W. B. Savell	23,197	Apr. 17	67	394
Key-top	R. S. Graham and W. B. Savell	23,198	Apr. 17	67	394
Kitchen-cabinet	J. Elsworth	23,613	Aug. 28	68	1138
Knife	J. T. Curran	23,034	Feb. 6	66	995
Knife. Meat-trimming	H. L. Koenig	23,659	Sept. 25	68	1623
Knife or fork cap	H. A. Curtiss	23,345	June 12	67	1439
Knife or fork handle	H. C. Hart	23,861	Dec. 11	69	1497
Knives, forks, &c. Holder for	R. M. Cooper	23,131	Mar. 20	66	1886
Knit shirt	J. H. Giles	23,187	Apr. 10	67	265
Lace fabric	J. K. Fletcher	23,230	May 1	67	668
Lace fabric	A. Watney	23,185	Apr. 10	67	264
Lace fabric	A. Watney	23,260	May 15	67	919
Lamp. Alcohol	S. Sternau	23,552	Aug. 7	68	765
Lamp and lamp-stove shade	W. H. Wilder	23,808	Nov. 13	69	938
Lamp-base	J. C. Miller	23,672	Oct. 2	69	115
Lamp-base	J. C. Miller	23,673	Oct. 2	69	115
Lamp-base	J. C. Miller	23,674	Oct. 2	69	115
Lamp-base	L. Von Grave	23,417	July 3	68	135
Lamp-base	L. Von Grave	23,418	July 3	68	135
Lamp-base	L. Von Grave	23,419	July 3	68	135
Lamp-base	F. Yokel	23,777	Nov. 6	69	783
Lamp-burner	L. J. Atwood	23,404	June 26	67	1715
Lamp-burner	L. Hornberger	23,722	Oct. 23	69	501

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Design.	Name.	No.	Date.	Official Gazette.	
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Lamp-chimney	W. J. Patterson	23,675	Oct. 2	69	116
Lamp-flame spreader	H. W. Hayden	23,809	Nov. 13	69	938
Lamp-fount	F. Yokel	23,276	May 15	67	921
Lamp-fount holder	J. C. Miller and E. Schmitz	23,671	Oct. 2	69	115
Lamp-fount holder	L. Von Grave	23,420	July 3	68	136
Lamp-fount holder	F. Yokel	23,778	Nov. 6	69	783
Lamp-heater	F. Rader	23,736	Oct. 23	69	503
Lamp. Miner's	C. D. Felix	23,526	July 31	68	650
Lamp-shade	W. B. Curtis and G. M. Donnally	22,996	Jan. 2	66	165
Lamp-shade	A. J. Fondeville	23,177	Apr. 10	67	263
Lamp-stand	W. S. Grey	23,329	June 5	67	1323
Lantern-globe	W. Somerville	23,824	Nov. 27	69	1205
Last	N. Bier	23,733	Oct. 23	69	502
Latrine	F. J. Torrance	23,856	Dec. 4	69	1355
Lawn-rake	L. Gibbs	23,660	Sept. 25	68	1623
Lemon-squeezer handle	A. Hanke	23,403	June 26	67	1714
Letters. Alphabet for sign	W. H. Putnam	23,533	Aug. 7	68	762
Lever. Hand	N. Du Brul	23,581	Aug. 21	68	1016
Lever. Hand	N. Du Brul	23,680	Oct. 2	69	116
Lifting-jack head	H. Allcard	23,475	July 17	68	406
Lock-case. Mortise	W. F. O'Byrne	23,779	Nov. 6	69	783
Lock hasp. Seal	D. D. Nolley	23,801	Nov. 13	69	937
Mat-link	C. Vian, E. and V. Becchio	23,627	Sept. 4	68	1269
Match-box	W. G. Walker	23,061	Feb. 13	66	1161
Measuring-instruments. Case for electrical	J. Van Vleck	23,293	May 22	67	1058
Measuring-instruments. Case for electrical	J. Van Vleck	23,294	May 22	67	1059
Measuring-instruments. Case for electrical	J. Van Vleck	23,295	May 22	67	1059
Measuring-instruments. Case for electrical	J. Van Vleck	23,296	May 22	67	1059
Measuring-instruments. Case for electrical	J. Van Vleck	23,297	May 22	67	1059
Measuring-instruments. Case for electrical	J. Van Vleck	23,298	May 22	67	1059
Measuring-instruments. Case for electrical	J. Van Vleck	23,299	May 22	67	1059
Measuring-instruments. Case for electrical	J. Van Vleck	23,300	May 22	67	1059
Measuring-instruments. Case for electrical	J. Van Vleck	23,301	May 22	67	1059
Measuring-instruments. Case for electrical	E. Weston	23,287	May 22	67	1058
Measuring-instruments. Case for electrical	E. Weston	23,288	May 22	67	1058
Measuring-instruments. Case for electrical	E. Weston	23,289	May 22	67	1058
Measuring-instruments. Case for electrical	E. Weston	23,290	May 22	67	1058
Measuring-instruments. Case for electrical	E. Weston	23,291	May 22	67	1058
Measuring-instruments. Case for electrical	E. Weston	23,292	May 22	67	1058
Measuring-vessel	R. Cederstrom	23,333	June 19	67	1564
Meat-cutter frame	O. D. Woodruff	23,580	Aug. 21	68	1016
Metal finishing-plate	E. A. Langenbach	23,223	May 22	67	1057
Metal vessel	S. W. Babbitt	23,241	May 1	67	670
Metallic finishing-plate	E. C. Ewing, A. Glass, and W. S. Grafton	23,044	Feb. 6	66	997
Metallic finishing-plate	W. S. Grafton	23,045	Feb. 6	66	997
Metallic finishing-plate	W. S. Grafton	23,046	Feb. 6	66	997
Metallic finishing-plate	E. A. Langenbach	23,224	Apr. 24	67	523
Metallic finishing-plate	E. A. Langenbach	23,585	Aug. 21	68	1017
Mirror-frame	J. F. Lockwood	23,201	Apr. 17	67	394
Mirror-frame	C. F. Mosman	23,654	Sept. 25	68	1622
Mirror-frame	H. Schuessler	23,559	Aug. 14	68	908
Mirror-frame, &c	L. Von Grave	23,384	June 19	67	1564
Mirror-frame	P. Wiederer	23,024	Jan. 30	66	839
Molder's fillet	F. G. Benskin	23,626	Sept. 4	68	1269
Molding. Metallic	W. S. Grafton	23,047	Feb. 6	66	998
Molding. Metallic	W. S. Grafton	23,018	Feb. 6	66	998
Molding. Metallic	W. S. Grafton	23,050	Feb. 6	66	998
Moldings. Corner-piece for metallic	W. S. Grafton	23,051	Feb. 6	66	998
Moldings. Cross-piece for metallic	W. S. Grafton	23,049	Feb. 6	66	998
Monument	C. Claudy	23,365	June 12	67	1442
Monument	J. H. Lloyd	23,193	Apr. 10	67	266
Monument	W. H. Perry	23,228	Apr. 24	67	523
Monument	W. H. Perry	23,340	June 5	67	1325
Monument	W. H. Perry	23,364	June 12	67	1442
Monument	W. H. Perry	23,405	June 26	67	1715
Monument	W. H. Perry	23,406	June 26	67	1715
Monument	W. H. Perry	23,457	July 10	68	276
Monument	W. H. Perry	23,615	Aug. 23	68	1138
Monument	W. H. Perry	23,745	Oct. 23	69	504
Mosaic pattern	G. H. Felt	23,059	Feb. 13	66	1160
Music-laf turner	R. B. Shaw	23,103	Mar. 6	66	1587
Musical instrument	M. Redgrave	23,239	May 1	67	669
Musical-instrument key	A. Newell	23,166	Apr. 3	67	132
Necktie	G. H. Taylor	23,074	Feb. 20	66	1302
Nozzle for lawn-sprinklers	D. C. Wilgus	23,700	Oct. 16	69	361
Nozzles. Shell for stand-pipe	W. K. Crawford	23,524	July 31	68	650
Nut	J. G. and G. Lane	23,917	Dec. 25	69	1767
Oil-can	J. Lines	23,042	Feb. 6	66	997
Oil-can	M. L. Sperry	23,018	Jan. 23	66	646
Organ-case	P. F. Mabile	23,508	July 24	68	527
Ornamental metallic wrapper	L. Kahn	23,115	Mar. 13	66	1750
Packing-jar	C. Gulden	23,382	June 19	67	1564
Padlock-case	E. H. Mix	23,642	Sept. 11	68	1385
Padlock-case	F. W. Mix	23,686	Oct. 9	69	237
Paper-holder	F. E. Kiefer	23,446	July 10	68	274
Paper. Pattern for wrapping	H. R. Towne	23,408	July 3	68	134
Paper. Pattern for wrapping	H. R. Towne	23,409	July 3	68	134
Paper-receptacle	W. E. Bourne	23,449	July 10	68	274
Pattern for textile fabrics	C. Schlaepfer	23,165	Apr. 3	67	132
Pattern or tool for garment-designers	L. Pernetz	23,732	Oct. 23	69	502
Pattern-strip. Metallic	F. L. Thompson	23,600	Nov. 13	69	937
Paving-block	W. F. Nepper	23,919	Dec. 25	69	1767
Penholder	F. McIntyre	23,501	July 24	68	526
Penholder	F. McIntyre	23,502	July 24	68	526

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Design.	Name.	No.	Date.	Official Gazette.	
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Pen-rack stand	J. M. Keep	23,677	Oct. 2	69	116
Pen-wiper	E. B. Wicks	23,575	Aug. 21	68	1015
Pencil. Lead	F. McIntyre	23,211	Apr. 24	67	520
Pencil. Lead	F. McIntyre	23,212	Apr. 24	67	520
Photograph-mount	W. A. Kelsey	23,022	Jan. 30	66	838
Photographic-card mount	J. P. Odgers	23,518	July 31	68	649
Photographic card-mount	J. P. Odgers	23,692	Oct. 16	69	360
Pickle-fork	L. A. Piaget	23,860	Dec. 11	69	1497
Picture-frame	C. S. and E. G. Casad	23,637	Sept. 11	68	1385
Picture-frame	R. Golde	23,183	Apr. 10	67	264
Picture-frame	R. Golde	23,184	Apr. 10	67	264
Picture-frame	R. Golde	23,249	May 8	67	804
Picture-frame	W. F. Lambert	21,284	May 22	67	1057
Picture-frame	R. Liebmann	23,468	July 17	68	406
Picture-frame	R. Liebmann	23,469	July 17	68	406
Picture-frame	R. Liebmann	23,470	July 17	68	406
Picture-frame	R. Liebmann	23,609	Aug. 28	68	1137
Picture-frame	R. Liebmann	23,853	Dec. 4	69	1354
Picture-frame	C. F. Mosman	23,388	June 19	67	1565
Picture-frame	C. F. Mosman	21,751	Oct. 30	69	631
Picture-frame	J. Neal and F. J. Ziron	23,451	July 10	68	275
Picture-frame	W. C. Strickler	23,062	Feb. 13	66	1161
Picture-frame	L. Von Grave	23,215	Apr. 24	67	521
Picture-frame	L. Von Grave	23,216	Apr. 24	67	521
Picture-frame	L. Von Grave	23,217	Apr. 24	67	521
Picture-frame	L. Von Grave	23,218	Apr. 24	67	521
Picture-frame, &c	L. Von Grave	23,385	June 19	67	1564
Picture-frame, &c	L. Von Grave	23,386	June 19	67	1564
Picture-frame, &c	L. Von Grave	23,387	June 19	67	1565
Picture-frame molding	J. Booth	23,519	July 31	68	649
Picture-frame molding	A. H. Durbur	23,152	Mar. 27	66	2045
Picture-frame molding	A. H. Durbur	23,153	Mar. 27	66	2046
Picture-frames, &c. Molding for	R. W. Aubé	23,903	Dec. 25	69	1765
Picture-frames, &c. Molding for	L. Lippi	23,902	Dec. 25	69	1764
Picture-frames, &c. Molding for	L. Lippi	23,904	Dec. 25	69	1765
Pin. Stick or scarf	E. B. Thornton	23,716	Oct. 23	69	500
Pincushion-support	A. Krouse	23,040	Feb. 6	66	996
Pincushion-support	A. Krouse	23,041	Feb. 6	66	996
Pitcher, &c.	J. Barlow and J. M. Pope	23,353	June 12	67	1440
Pitcher, &c.	J. L. Wever	23,577	Aug. 21	68	1015
Pitcher, &c.	J. L. Wever	23,578	Aug. 21	68	1016
Pitcher	C. C. Wientge	23,890	Dec. 25	69	1763
Pitcher	F. L. Thompson	23,681	Oct. 9	69	236
Pitchers, &c. Support for	C. E. Haviland	23,136	Mar. 20	66	1886
Plate or like article	C. E. Haviland	23,900	Dec. 25	69	1764
Plate or similar article	C. E. Haviland	23,547	Aug. 7	68	764
Plush ball	C. F. Buschner	23,547	Aug. 7	68	764
Pocket-box	C. W. Sedgwick	23,608	Aug. 28	68	1137
Pocket-case	C. W. Sedgwick	23,443	July 10	68	274
Post-hole digger	L. Gibbs	23,072	Feb. 13	66	1162
Pulley. Sheet-metal	O. W. Ketcham	23,476	July 17	68	407
Pumps. Pipe-head for chain	W. Lichtenberger	23,740	Oct. 23	69	503
Preserving-vault	W. Walker	23,167	Apr. 3	67	133
Puzzle-body	F. H. Yost	23,359	June 12	67	1441
Rack	W. W. Ensign	23,200	Apr. 17	67	394
Rack	C. C. Wientge	23,333	June 5	67	1323
Racks. Back plate for	C. C. Wientge	23,389	June 19	67	1565
Radiator	C. F. Bachler	23,631	Sept. 4	68	1270
Radiator	J. F. McElroy	23,339	June 5	67	1325
Radiator	J. F. McElroy	23,330	Sept. 4	68	1269
Radiator	C. F. Walther	23,361	June 12	67	1441
Radiator. Electrical	J. F. McElroy	23,426	July 3	68	136
Radiator-loop	C. F. Walther	23,527	July 31	68	650
Radiator-loop	C. F. Walther	23,914	Dec. 25	69	1767
Rail. Bolster	M. Campbell	23,554	Aug. 7	68	765
Railway bulletin-board	A. L. Johnson	23,918	Dec. 25	69	1767
Range	C. A. Bailey	23,707	Oct. 16	69	363
Razor-handle	F. R., and O. Kampfe	23,699	Oct. 16	69	361
Razor-strop	F. R., and O. Kampfe	23,401	June 26	67	1714
Razor-strop	F. R., and O. Kampfe	23,576	Aug. 21	68	1015
Reflector	R. M. Dixon	23,560	Aug. 14	68	908
Reflector for area-gratings. Prism	G. Evans	23,804	Nov. 13	69	938
Refrigerators. Removable side flue for	G. W. Lawrence	23,105	Mar. 6	66	1587
Ring	W. Durand	23,535	Aug. 7	68	762
Ring	W. Durand	23,536	Aug. 7	68	762
Ring	W. Durand	23,537	Aug. 7	68	763
Ring	W. Durand	23,538	Aug. 7	68	763
Ring	W. Durand	23,539	Aug. 7	68	763
Ring	W. Durand	23,540	Aug. 7	68	763
Ring	W. Durand	23,541	Aug. 7	68	763
Ring	W. Durand	23,542	Aug. 7	68	763
Ring	W. Durand	23,543	Aug. 7	68	763
Ring	W. Durand	23,544	Aug. 7	68	763
Ring	W. Durand	23,545	Aug. 7	68	763
Ring	W. Durand	23,546	Aug. 7	68	763
Ring. Metal	F. Ecaubert	23,684	Oct. 9	69	236
Rope-grip	A. K. Evans	23,448	July 10	68	274
Rug	J. B. Neil	23,781	Nov. 6	69	783
Rug	J. B. Neil	21,807	Dec. 11	69	1198
Rug	A. M. Rose	23,056	Feb. 13	66	1160
Rug	A. M. Rose	23,075	Feb. 20	66	1302
Rug	A. M. Rose	23,865	Dec. 11	69	1498
Rug	A. M. Rose	23,866	Dec. 11	69	1498
Rug or carpet	A. M. Rose	23,031	Jan. 30	66	840
Sad-iron	H. P. Carver	23,067	Feb. 13	66	1161
Sad-iron handle	G. H. Ober	23,525	July 31	68	650

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Sap-spout	A. M. Foster	23,392	June 19	67	1566
Sash-lift	J. Andrews	23,728	Oct. 23	69	501
Scale beam. Letter-	J. E. Withrow	23,335	June 5	67	1324
Scarf-pin	G. F. Greene	23,755	Nov. 6	69	780
Scarf-pin	G. F. Greene	23,756	Nov. 6	69	780
Scarf-pin	G. F. Greene	23,757	Nov. 6	69	780
Scarf-pin	G. F. Greene	23,758	Nov. 6	69	780
Scarf-pin	G. F. Greene	23,759	Nov. 6	69	780
Scarf-pin	G. F. Greene	23,760	Nov. 6	69	780
Scarf-pin	G. F. Greene	23,827	Dec. 4	69	1351
Scarf-pin	G. F. Greene	23,828	Dec. 4	69	1351
Scarf-pin	G. F. Greene	23,829	Dec. 4	69	1351
Scarf-pin	J. H. Theberath	23,514	July 31	68	648
Scarf-pin	J. H. Theberath	23,534	Aug. 7	68	762
Scraper for kitchen utensils	W. I. Leggett	23,068	Feb. 13	66	1162
Screw	W. E. Quinby	23,336	June 5	67	1324
Seal, &c	E. J. Walsh, W. Keegan, and P. Finnegan	23,410	July 3	68	134
Settee	J. McLean	23,472	July 17	68	406
Sewing-machine frame	L. Muther, R. G. Woodward, and E. C. Holland	23,813	Nov. 13	69	939
Shade-pull handle	G. F. Hensel	23,713	Oct. 23	69	499
Shelf-bracket	H. E. Russell	23,610	Aug. 28	68	1137
Shirt	J. F. Quinn	23,095	Mar. 6	66	1586
Shoe	S. W. West	23,366	June 12	67	1442
Shoe-stand	M. Landau and A. Traxler	23,192	Apr. 10	67	266
Shutter bower and fastener	H. Mintzer	23,423	July 3	68	136
Siding-board	G. R. Boyd	23,106	Mar. 6	66	1587
Silversmith's stock	G. L. Crowell, Jr.	23,327	June 5	67	1323
Silversmith's stock	G. L. Crowell, Jr.	23,328	June 5	67	1323
Sink	S. E. Horner	23,632	Sept. 4	68	1270
Slab-support	J. Totham	23,334	June 5	67	1324
Spool-holder box	F. A. Phelps	23,750	Oct. 30	69	634
Spool-rack	F. S. Adams	23,869	Dec. 11	69	1498
Spoon	B. T. Ash	23,689	Oct. 16	69	360
Spoon	H. H. Cabot	23,194	Apr. 17	67	394
Spoon	H. H. Cabot	23,195	Apr. 17	67	394
Spoon	E. W. Campbell	23,097	Mar. 6	66	1586
Spoon	W. N. Capurro	23,651	Sept. 25	68	1622
Spoon, &c	W. C. Codman	23,717	Oct. 23	69	500
Spoon	W. Durand	23,119	Mar. 20	66	1885
Spoon	W. Durand	23,120	Mar. 20	66	1885
Spoon	W. Durand	23,121	Mar. 20	66	1885
Spoon	W. Durand	23,122	Mar. 20	66	1885
Spoon	W. Durand	23,123	Mar. 20	66	1885
Spoon	W. Durand	23,124	Mar. 20	66	1885
Spoon	W. Durand	23,125	Mar. 20	66	1885
Spoon	W. Durand	23,126	Mar. 20	66	1885
Spoon	W. Durand	23,127	Mar. 20	66	1885
Spoon	W. Durand	23,128	Mar. 20	66	1886
Spoon	W. Durand	23,129	Mar. 20	66	1886
Spoon	W. Durand	23,130	Mar. 20	66	1886
Spoon	B. B. Freeman	23,098	Mar. 6	66	1586
Spoon	F. C. Hamilton	23,462	July 17	68	405
Spoon	G. E. Homer	23,379	June 19	67	1563
Spoon	R. Leding	23,010	Jan. 23	66	645
Spoon	C. B. Peets	23,099	Mar. 6	66	1586
Spoon, &c	H. J. Robinson	23,747	Oct. 30	69	633
Spoon	G. Rockwell	23,196	Apr. 17	67	394
Spoon	A. G. Rogers	23,652	Sept. 25	68	1622
Spoon	S. D. Schenck	23,690	Oct. 16	69	360
Spoon, &c	G. W. Shiebler	23,833	Dec. 4	69	1351
Spoon	C. C. Thompson	23,310	May 29	67	1182
Spoon	R. Turner	22,994	Jan. 2	66	165
Spoon, fork, &c	S. Smith	23,163	Apr. 3	67	132
Spoon, fork, or similar article	S. Smith	23,326	June 5	67	1323
Spoon-handle, &c	G. W. Shiebler	23,643	Sept. 18	68	1513
Spoon or similar article	L. R. Horton	23,494	July 24	68	525
Spoon. Souvenir	A. Kaiser	23,019	Jan. 30	66	837
Spoons, &c. Handle for	E. W. Campbell	23,263	May 15	67	919
Spoons, &c. Handle for	J. Clulce	23,171	Apr. 10	67	263
Spoons, &c. Handle for	W. C. Codman	23,311	May 29	67	1183
Spoons, &c. Handle for	G. L. Crowell, Jr.	23,718	Oct. 23	69	500
Spoons, &c. Handle for	L. R. Horton	23,719	Oct. 23	69	500
Spoons, &c. Handle for	A. F. Jackson	23,020	Jan. 30	66	838
Spoons, &c. Handle for	A. F. Jackson	23,515	July 31	68	648
Spoons, &c. Handle for	J. W. Maillot	23,057	Feb. 13	66	1160
Spoons, &c. Handle for	G. A. Mueller	23,170	Apr. 10	67	262
Spoons, &c. Handle for	C. Osborne	23,209	Apr. 24	67	520
Spoons, &c. Handle for	J. H. Rock	23,108	Mar. 13	66	1749
Spoons, &c. Handle for	G. Rockwell	23,172	Apr. 10	67	263
Spoons, &c. Handle for	G. P. Tilton	23,557	Aug. 14	68	907
Spoons, &c. Handle for	E. Z. Cole	23,503	July 24	68	527
Sprayer or irrigator	F. Ratcliff	23,182	Apr. 10	67	264
Standard. Pronged	G. J. Waldvogel	23,424	July 3	68	136
Stool. Music	F. I. Bailey	23,091	Feb. 27	66	1445
Stopper-plug	S. Boal	23,780	Nov. 6	69	723
Stove	F. W. Collins	23,584	Aug. 21	68	1017
Stove	F. W. Collins	23,708	Oct. 16	69	363
Stove	J. L. Gobeille	23,737	Oct. 23	69	503
Stove	L. Kahn and A. Speck	23,553	Aug. 4	68	765
Stove	E. J. King and T. R. Kennedy	23,611	Aug. 24	68	1138
Stove	T. Miller	23,427	July 3	68	137
Stove	T. Miller	23,428	July 3	68	137
Stove	T. Miller	23,429	July 3	68	137

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Stove.....	E. D. Nellis.....	23,070	Feb. 13	66	1162
Stove.....	E. D. Nellis.....	23,071	Feb. 13	66	1162
Stove.....	L. Peck.....	23,855	Dec. 4	69	1355
Stove.....	C. Wipfler.....	23,481	July 17	68	407
Stove base. Cooking.....	F. W. Osborne.....	23,069	Feb. 13	66	1162
Stove. Cook.....	J. L. Gobeille.....	23,826	Nov. 27	69	1205
Stove door.....	L. Kahn.....	23,014	Jan. 23	66	646
Stove. Gas.....	L. Kahn.....	23,505	July 24	68	527
Stove. Gas.....	L. Kahn.....	23,854	Dec. 4	69	1355
Stove. Gas cook.....	C. Whittingham.....	23,529	July 31	68	651
Stove. Gas cook.....	C. Whittingham.....	23,530	July 31	68	651
Stove. Heating.....	G. O. Bergstrom.....	23,911	Dec. 25	69	1766
Stove. Heating.....	W. McArthur.....	23,877	Dec. 11	69	1499
Stove. Heating.....	J. S. Van Buren.....	23,013	Jan. 23	66	646
Stove. Lamp.....	W. H. Wilder.....	23,810	Nov. 13	69	938
Stove. Oil.....	C. H. Boeck.....	23,480	July 17	68	407
Stove. Oil heating.....	A. A. Kinne.....	23,709	Oct. 16	69	363
Stove. Oil or gas.....	G. W. Cope.....	23,090	Feb. 27	66	1445
Stove or range.....	A. C. West.....	23,456	July 10	68	276
Stove or range.....	W. H. Barnes.....	23,687	Oct. 9	69	237
Stove or range.....	F. Kaempen, Jr.....	23,612	Aug. 28	68	1138
Stove or range. Cooking.....	F. A. Magee and F. W. Osborne.....	23,162	Mar. 27	66	2047
Stove or range. Cooking.....	G. E. Wilbur.....	23,812	Nov. 13	69	939
Stovepipe section.....	J. Spear.....	23,161	Mar. 27	66	2047
Stove-plate.....	G. E. Wilbur.....	23,912	Dec. 25	69	1766
Stove. Tank-heating.....	H. L. Ferris.....	23,811	Nov. 13	69	939
Strainer. Sink.....	L. Pickard.....	23,199	Apr. 17	67	394
Suspender-end.....	H. Larkin.....	23,500	July 24	68	526
Suspender-webbing.....	W. Lücke.....	23,712	Oct. 23	69	499
Sword-hilt.....	H. W. Field.....	23,820	Nov. 27	69	1204
Sword-scabbard.....	C. H. Lindenberg.....	23,813	Nov. 27	69	1204
Sword-scabbard.....	C. H. Lindenberg.....	23,819	Nov. 27	69	1204
Table-leg.....	L. Welker.....	22,997	Jan. 2	66	166
Table-top frame.....	L. Von Grave.....	23,520	July 31	68	649
Table-top slab.....	J. C. Miller.....	23,285	May 22	67	1058
Table-top slab.....	J. C. Miller.....	23,286	May 22	67	1058
Table-top slab.....	J. C. Miller.....	23,318	May 29	67	1184
Table-top slab.....	F. Yokel.....	23,180	Apr. 10	67	263
Table-top slab.....	T. Yokel.....	23,202	Apr. 17	67	395
Table-top slab.....	T. Yokel.....	23,203	Apr. 17	67	395
Table-top slab.....	T. Yokel.....	23,204	Apr. 17	67	395
Table-top slab.....	T. Yokel.....	24,205	Apr. 17	67	395
Tables, &c. Frame for.....	L. Von Grave.....	23,421	July 3	68	136
Tables, &c. Frame for.....	L. Von Grave.....	23,422	July 3	68	136
Tablet-machine standard.....	C. A. Tatum.....	23,921	Dec. 25	69	1767
Target. Flying.....	H. F. Parker.....	23,027	Jan. 30	66	839
Tassel.....	M. Bernhard.....	23,483	July 17	68	408
Tassel. Shade.....	J. O. Remington.....	23,259	May 15	67	919
Telephones. Transmitter-post for.....	W. Gray.....	23,825	Nov. 27	69	1205
Threshold-plate.....	W. F. Richards.....	23,390	June 19	67	1565
Threshold-plate.....	W. F. Richards.....	23,705	Oct. 16	69	362
Tile.....	W. B. Hayden.....	23,391	June 19	67	1565
Tile.....	D. H. Watts.....	23,772	Nov. 6	69	782
Tile-stand.....	S. Sternau.....	23,771	Nov. 6	69	782
Tobacco-bag.....	G. Millhiser.....	23,414	July 3	68	135
Toilet-article holder.....	J. Totham.....	23,416	July 3	68	135
Tongs tip. Clothes.....	T. J. Coons.....	23,562	Aug. 14	68	908
Tool-handle.....	E. Todd, Jr.....	23,346	June 12	67	1439
Tool-holder.....	R. McKay.....	23,658	Sept. 25	68	1623
Tool-rack.....	T. R. Callan.....	23,104	Mar. 6	66	1587
Toothpicks, &c. Holder for.....	J. Ludwig.....	23,150	Mar. 27	66	2045
Toy-cap exploder.....	C. A. Hotchkiss.....	23,356	June 12	67	1440
Transmitter-dial.....	C. F. Scattergood.....	23,111	Mar. 13	66	1749
Tray.....	F. Ratcliff.....	23,114	Mar. 13	66	1750
Tray. Communion-service.....	E. J. Howe.....	23,901	Dec. 25	69	1764
Tray for counters. Bottle and glass.....	R. Witgenfold.....	23,899	Dec. 25	69	1764
Trimming.....	F. A. Byram.....	23,885	Dec. 25	69	1762
Trimming.....	F. A. Byram.....	23,886	Dec. 25	69	1762
Trimming.....	C. E. Hertlein.....	23,325	June 5	67	1322
Trimming.....	B. Lipper and C. Kelsh.....	23,431	July 10	68	271
Trimming.....	B. Lipper and C. Kelsh.....	23,432	July 10	68	271
Trimming.....	J. Müller.....	23,746	Oct. 30	69	633
Trimming.....	G. H. Taylor.....	23,073	Feb. 20	66	1302
Trolley-wire clip.....	W. F. D. Crane.....	23,243	May 1	67	670
Trowel. Garden.....	H. Brand.....	23,226	Apr. 24	67	523
Truck side bar.....	W. S. Adams.....	23,088	Feb. 27	66	1444
Trunk-fastener.....	J. H. McNamara.....	23,178	Apr. 10	67	263
Tubing. Attaching-socket for.....	J. J. Vantier.....	23,523	July 31	68	650
Twine-holder.....	W. M. Manly.....	23,521	July 31	68	649
Type-border.....	E. B. Fox.....	23,341	June 12	67	1439
Type. Font of printing.....	C. E. Heyer.....	22,999	Jan. 2	66	166
Type. Font of printing.....	H. Ihlenburg.....	23,164	Apr. 3	67	132
Type. Font of printing.....	J. West.....	23,107	Mar. 6	66	1587
Umbrella or cane head.....	A. Conkling.....	23,790	Nov. 13	69	936
Vase.....	G. C. Siebert.....	23,214	Apr. 24	67	520
Vase.....	J. Slater.....	23,465	July 17	68	405
Vases, &c. Support for.....	A. Wanner, Jr.....	23,250	May 8	67	805
Vault-light frame.....	J. Jacobs.....	23,082	Feb. 20	66	1303
Vault-light lens.....	J. Jacobs.....	23,083	Feb. 20	66	1303
Vault-light lens.....	P. Schwickart.....	23,348	June 12	67	1439
Vehicle-step.....	H. C. Swan.....	23,753	Oct. 30	69	635
Vehicle-step.....	H. C. Swan.....	23,883	Dec. 18	69	1636
Ventilator.....	S. J. Brown.....	23,030	Jan. 30	66	840
Ventilator.....	J. Mulligan.....	23,029	Jan. 30	66	839
Vessel.....	J. T. Curran.....	23,553	Aug. 14	68	907

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Wagon body. Lunch.....	T. H. Buckley	23,011	Jan. 23	66	645
Waist.....	C. N. Chadwick	23,033	Feb. 6	66	995
Waist. Child's.....	S. J. Schack	23,132	Mar. 20	66	1886
Wall or ceiling paper.....	F. Aumonier	23,116	Mar. 13	66	1750
Wall-paper.....	F. Aumonier	23,004	Jan. 9	66	308
Wall-paper.....	F. Aumonier	23,005	Jan. 9	66	309
Wall-paper.....	C. Booze	23,565	Aug. 21	63	1013
Wall-paper.....	C. Booze	23,566	Aug. 21	63	1014
Wall-paper.....	C. Booze	23,567	Aug. 21	63	1014
Wall-paper.....	C. Booze	23,568	Aug. 21	63	1014
Wall-paper.....	C. Booze	23,569	Aug. 21	63	1014
Wall-paper.....	C. Booze	23,570	Aug. 21	63	1014
Wall-paper.....	C. Booze	23,571	Aug. 21	63	1014
Wall-paper.....	C. Booze	23,572	Aug. 21	63	1015
Wall-paper.....	C. Booze	23,573	Aug. 21	63	1015
Wall-paper.....	C. Booze	23,586	Aug. 28	63	1133
Wall-paper.....	C. Booze	23,587	Aug. 28	63	1134
Wall-paper.....	C. Booze	23,588	Aug. 28	63	1134
Wall-paper.....	C. Booze	23,589	Aug. 28	63	1134
Wall-paper.....	C. Booze	23,590	Aug. 28	63	1134
Wall-paper.....	C. Booze	23,591	Aug. 28	63	1134
Wall-paper.....	C. Booze	23,592	Aug. 28	63	1134
Wall-paper.....	C. Booze	23,593	Aug. 28	63	1135
Wall-paper.....	C. Booze	23,594	Aug. 28	63	1135
Wall-paper.....	C. Booze	23,595	Aug. 28	63	1135
Wall-paper.....	C. Booze	23,596	Aug. 28	63	1135
Wall-paper.....	C. Booze	23,597	Aug. 28	63	1135
Wall-paper.....	C. Booze	23,598	Aug. 28	63	1135
Wall-paper.....	C. Booze	23,599	Aug. 28	63	1136
Wall-paper.....	C. Booze	23,600	Aug. 28	63	1136
Wall-paper.....	C. Booze	23,601	Aug. 28	63	1136
Wall-paper.....	C. Booze	23,602	Aug. 28	63	1136
Wall-paper.....	C. Booze	23,603	Aug. 28	63	1136
Wall-paper.....	C. Booze	23,604	Aug. 28	63	1136
Wall-paper.....	C. Booze	23,605	Aug. 28	63	1137
Wall-paper.....	C. Booze	23,606	Aug. 28	63	1137
Wall-paper.....	C. Booze	23,607	Aug. 28	63	1137
Wall-paper.....	C. Booze	23,616	Sept. 4	63	1267
Wall-paper.....	C. Booze	23,617	Sept. 4	63	1267
Wall-paper.....	C. Booze	23,618	Sept. 4	63	1267
Wall-paper.....	C. Booze	23,619	Sept. 4	63	1268
Wall-paper.....	C. Booze	23,620	Sept. 4	63	1268
Wall-paper.....	C. Booze	23,621	Sept. 4	63	1268
Wall-paper.....	C. Booze	23,633	Sept. 11	63	1384
Wall-paper.....	C. Booze	23,634	Sept. 11	63	1384
Wall-paper.....	C. Booze	23,635	Sept. 11	63	1384
Wall-paper.....	C. Booze	23,636	Sept. 11	63	1384
Wall-paper.....	L. Clémencet.....	23,662	Oct. 2	69	114
Wall-paper.....	L. Clémencet.....	23,663	Oct. 2	69	114
Wall-paper.....	L. Clémencet.....	23,664	Oct. 2	69	114
Wall-paper.....	L. Clémencet.....	23,665	Oct. 2	69	114
Wall-paper.....	L. Clémencet.....	23,666	Oct. 2	69	114
Wall-paper.....	H. F. D. Crownfield.....	23,649	Sept. 25	63	1622
Wall-paper.....	H. F. D. Crownfield.....	23,650	Sept. 25	63	1622
Wall-paper.....	M. G. Hatch	23,667	Oct. 2	69	114
Wall-paper.....	G. Ketterer	23,694	Oct. 16	69	360
Wall-paper.....	H. B. Matthews.....	23,622	Sept. 4	63	1268
Wall-paper.....	S. Poujol	23,623	Sept. 4	63	1268
Wall-paper.....	S. Poujol	23,624	Sept. 4	63	1269
Wall-paper.....	K. Pyle	23,815	Nov. 20	69	1064
Wall-paper.....	I. M. L. Truitt	23,695	Oct. 16	69	361
Washboard-plate.....	J. A. W. Sears	23,620	Sept. 4	63	1269
Washboard rubbing-plate.....	C. D. Fuller	23,507	July 24	63	527
Washstand. Table.....	R. W. Emerson	23,222	Apr. 24	67	522
Washer.....	T. J. Park	23,551	Aug. 7	63	764
Watchcase.....	W. Durand	23,236	May 1	67	669
Watchcase.....	W. Durand	23,237	May 1	67	669
Watchcase.....	W. Durand	23,264	May 15	67	920
Watchcase.....	W. Durand	23,265	May 15	67	920
Watchcase.....	W. Durand	23,266	May 15	67	920
Watchcase.....	W. Durand	23,267	May 15	67	920
Watchcase.....	W. Durand	23,268	May 15	67	920
Watchcase.....	W. Durand	23,269	May 15	67	920
Watchcase.....	W. Durand	23,270	May 15	67	921
Watchcase.....	W. Durand	23,271	May 15	67	921
Watchcase.....	W. Durand	23,272	May 15	67	921
Watchcase.....	W. Durand	23,273	May 15	67	921
Watch-chain, &c.....	G. E. Rhodes.....	23,857	Dec. 11	69	1497
Watch-dial.....	C. K. Colby	23,464	July 17	63	405
Water-conductor.....	S. Silberstein	23,227	Apr. 24	67	523
Wheels. Metallic rim for.....	C. Challiner	23,704	Oct. 16	69	362
Whirligig.....	A. G. Brandt	23,444	July 10	63	274
Whirligig-wheel.....	B. R. Dudley	23,089	Feb. 27	66	1444
Woven fabric.....	J. H. Chadwick	23,055	Feb. 13	66	1160
Woven fabric.....	L. A. Marks	23,791	Nov. 13	69	936
Woven fabric.....	L. A. Marks	23,792	Nov. 13	69	936
Woven fabric.....	L. A. Marks	23,793	Nov. 13	69	936
Woven fabric.....	L. A. Marks	23,794	Nov. 13	69	936
Woven fabric.....	L. A. Marks	23,795	Nov. 13	69	936
Woven fabric.....	L. A. Marks	23,796	Nov. 13	69	936
Woven fabric.....	L. A. Marks	23,797	Nov. 13	69	937
Woven fabric.....	J. G. Pegel	23,787	Nov. 6	69	784
Woven fabric.....	W. T. Smith	23,017	Jan. 23	66	646
Woven fabric.....	W. T. Smith	23,324	June 5	67	1322

ALPHABETICAL LIST OF TRADE-MARKS.

Title.	Name.	No.	Date.	Official Gazette.	
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Absinthe	Les Fils de C. F. Berger	24,340	Mar. 13	66	1752
Absinthe	Lee Fils de C. F. Berger	24,341	Mar. 13	66	1752
Absorbents for surgical and other purposes	Jaros Hygienic Underwear Company	25,419	Oct. 30	69	637
Accordions	W. Spaethe	24,909	June 26	67	1716
Acid. Acetic	Contis & Sons	24,048	Jan. 16	66	453
Acids for acidulating sirups and leverages	Esilman & Nield	25,071	July 31	68	653
Agate heads and buttons	F. Baptesroses & Cie	24,438	Apr. 3	67	134
Agricultural machines and implements. Certain	Marseilles Manufacturing Company	24,407	Mar. 20	66	1892
Agricultural machines and their parts	Richardson Manufacturing Company	24,697	May 8	67	810
Agricultural tools and implements	Belcher & Taylor Agricultural Tool Company	25,336	Oct. 9	69	240
Ale. Aerated and non-alcoholic	Barclay & Co	24,135	Jan. 30	66	842
Ale, aerated and non-alcoholic	Kops Brewery	24,091	Jan. 23	66	648
Ale and stout	T. B. Hall & Co.	25,392	Oct. 23	69	505
Ale. Ginger	J. Morwitz	25,389	Oct. 23	69	505
Ale. Ginger	Pennsylvania Bottling and Supply Company of Philadelphia	25,648	Dec. 11	69	1502
Alloy of metal	Dippo Manufacturing Company	25,696	Dec. 18	69	1640
Alterative compound and blood purifier	S. Webster & Co	25,314	Oct. 9	69	239
Aluminum-gold knives, forks, spoons, flat and table ware	Waldo Foundry	25,568	Dec. 4	69	1357
Ammonia, benzine, and turpentine	R. H. Macy & Co	24,290	Mar. 6	66	1589
Ammonia. Perfumed	Lasker Bros	25,537	Nov. 20	69	1065
Ammunition	Peters Cartridge Company	24,609	Apr. 24	67	528
Ammunition, except shotgun-cartridges and gunpowder	Peters Cartridge Company	25,193	Aug. 28	68	1142
Analgesic and antipyretic compound	T. W. Stemmler	25,313	Oct. 9	69	239
Anestho-anodynes	Gary & Christopher	24,687	May 8	67	809
Anodyne and antipyretic	Phena Tro Cine Chemical Co	23,985	Jan. 2	66	169
Antidotes for poisons or snake-bites	L. S. B. Slusser	24,050	Jan. 16	66	453
Antidotes for uric-acid diathesis	A. Stern	23,981	Jan. 2	66	169
Antipyretic and anodyne powders for headache and neuralgia	F. A. Wheeler	24,867	June 12	67	1445
Antiseptic and germicidal preparation	F. W. R. Eschmann	25,575	Dec. 4	69	1357
Antiseptic dressing. Surgeon's	Johnson & Johnson	25,079	July 31	68	653
Antiseptic powder	B. L. Maltbie	24,925	June 26	67	1717
Antiseptic powders, ointments, liniments, and lotions	E. Bland	25,418	Oct. 30	69	637
Antiseptic surgeons' dressing	Johnson & Johnson	24,831	June 5	67	1328
Antiseptics	Chemische Fabrik auf Actien, (vormals E. Schering.)	24,188	Feb. 6	66	1003
Anvils and blacksmiths' tools	Wielusch & Hilger	24,108	Jan. 23	66	649
Apparel for men and boys. Wearing	Schloss Bros. & Co	25,063	July 31	68	652
Apparel for men and boys. Wearing	Schloss Bros. & Co	25,064	July 31	68	652
Apparel for men and boys. Wearing	Schloss Bros. & Co	25,065	July 31	68	652
Apparel. Men's wearing	Plymouth Clothing House	25,198	Sept. 4	68	1271
Axes and other tools	Collins Company	24,802	May 29	67	1188
Axes, hatchets, chisels, plane-blades, bits, gouges, and other tools	H. W. Peabody & Co	24,031	Jan. 9	66	313
Axles and axle-boxes for vehicles	J. T. Richards	25,257	Sept. 18	68	1517
Axles. Vehicle	Cleveland Axle Manufacturing Company	24,836	June 5	67	1328
Bacon	Anglo-American Provision Company	24,668	May 8	67	808
Baking-powder	America Baking Powder Company	24,005	Jan. 9	66	310
Baking-powder	B. T. Babbitt	24,083	Jan. 23	66	647
Baking-powder	Big Wheel Company	24,716	May 15	67	924
Baking-powder	J. Butler	24,084	Jan. 23	66	647
Baking-powder	J. Butler	24,179	Feb. 6	66	1002
Baking-powder	Cleveland Brothers	24,178	Feb. 6	66	1002
Baking-powder	Forbes, Brother & Co	24,977	July 3	68	142
Baking-powder	S. Guckenheimer & Sons	25,251	Sept. 18	68	1517
Baking-powder	A. H. Langenbach	24,337	Mar. 13	66	1752
Baking-powder	C. T. Long	24,423	Mar. 27	66	2049
Baking-powder	Nicholas Burke Company	24,128	Jan. 30	66	842
Baking-powder	Pasquier & Stankard	24,855	June 12	67	1444
Baking-powder	Scudder-Gale Grocer Company	24,856	June 12	67	1444
Baking-powder	H. D. Thatcher & Co	24,338	Mar. 13	66	1752
Baking-powder	F. W. Young	24,857	June 12	67	1441
Balm or cosmetic	Lyon Manufacturing Co	24,590	Apr. 24	67	526
Balsam	F. Mayerhofer	24,227	Feb. 13	66	1165
Balsams and ointment	Clover Medicine Company	24,757	May 22	67	1063
Barley and malt extracts and carbonated beverages	J. A. W. Fernow	24,223	Feb. 13	66	1165
Bats. Base-ball	J. P. Hillerich & Son	25,510	Nov. 13	69	942
Batteries. Plates or elements for secondary or storage	Electric Storage Battery Company	25,235	Sep. 11	68	1388
Bed-springs	Smith & Davis Manufacturing Company	24,431	Mar. 27	66	2050
Beds or wire mattresses. Spring	Smith & Davis Manufacturing Company	24,403	Mar. 20	66	1892
Beds. Spring	Foster Bros. Manufacturing Company	25,256	Sept. 18	63	1517
Beef. Fresh, roast, and boiled	S. Green	25,129	Aug. 14	68	910
Beef-juice	J. Wreth & Bro	24,667	May 8	67	808
Beef, mutton, veal, pork, ham, sausage, and cured meats	Emil Winter Company	24,753	May 22	67	1062

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Beef, mutton, veal, pork, ham, sausage, and cured meats	S. Green	25,472	Nov. 6	69	788
Beef. Smoked chipped	Pumphrey Co	25,044	July 24	68	530
Beer	Indianapolis Brewing Company	25,586	Dec. 4	69	1358
Beer, ale, and porter	Philadelphia Brewing Company	25,393	Oct. 23	69	506
Beer, ale, and porter	Habich & Co	25,124	Aug. 14	68	910
Beer, ale, and porter	Habich & Co	25,357	Oct. 16	69	366
Beer, ale, and porter	Madison Brewing Company	25,693	Dec. 18	69	1639
Beer, ale, stout, porter, and analogous malted beverages. Lager-	Henn & Gabler Brewing Company	25,217	Sept. 11	68	1386
Beer. Lager	Bartholomay Brewery Company	24,915	June 20	67	1716
Beer. Lager	Christian Moerlein Brewing Company	24,502	Apr. 10	67	269
Beer. Lager	J. Conrad	24,852	June 12	67	1444
Beer. Lager	Corporation of Christian Feigenspan	25,202	Sept. 4	68	1271
Beer. Lager	Firm of Isaac Leisy	24,449	Apr. 3	67	135
Beer. Lager	Firm of H. Ziegler	25,204	Sept. 4	68	1271
Beer. Lager	Grand Rapids Brewing Company	25,423	Oct. 30	69	637
Beer. Lager	Iroquois Brewing Company	24,171	Feb. 6	66	1001
Beer. Lager	Joseph Fallert Brewing Company	25,587	Dec. 4	69	1358
Beer. Lager	Peter Hand Brewery Company	24,057	Jan. 16	66	454
Beer. Lager	Rochester Brewing Company	25,203	Sept. 4	68	1271
Beer. Lager	C. Schwerdfeger	25,048	July 24	68	530
Beer. Lager	Standard Brewery	24,636	May 1	67	673
Beer. Lager	W. A. Weber	24,660	May 8	67	807
Beer. Lager	G. W. Wiedenmayer	23,970	Jan. 2	66	168
Beer. Malt	S. Liebman's Sons Brewing Company	25,716	Dec. 25	69	1769
Beer. Root	Charles E. Hires Company	24,058	Jan. 16	66	454
Belt-dressing	White & Bagley Company	25,014	July 17	68	409
Belt stud or fastener	C. A. Binz and F. M. Linderman	24,535	June 5	67	1328
Belts and wearing appliances. Electric	Owen Electric Belt and Appliance Company	24,778	May 29	67	1187
Beverage. Carbonated tonic	F. Gill	25,526	Nov. 13	69	944
Beverage containing the extract of sarsaparilla and iron. Carbonated	W. B. Starbird	25,541	Nov. 20	69	1066
Beverage. Effervescing powder for a summer	H. Meakin	25,422	Oct. 30	69	637
Beverages. Aerated	J. Heinzerling	25,581	Dec. 4	69	1357
Beverages. Aerated	J. Heinzerling	25,650	Dec. 11	69	1503
Beverages. Carbonated	L. Kalling	24,136	Jan. 30	66	842
Beverages. Carbonated	J. J. McLaughlin	24,311	Mar. 6	66	1590
Beverages. Certain named	Crystal Water Company	25,651	Dec. 11	69	1503
Beverages. Certain named non-alcoholic	Wheatley & Bates	24,019	Jan. 9	66	312
Beverages. Certain named non-alcoholic	Wheatley & Bates	24,020	Jan. 9	66	312
Beverages, ginger ale, and weiss beer. Carbonated	G. Schweickhart, Jr	25,462	Nov. 6	69	787
Beverages, including root beer and lager-beer in bottles or other packages	C. Magnus	25,319	Oct. 9	69	239
Beverages. Malt	R. White & Sons	25,652	Dec. 11	69	1503
Beverages. Malt	R. White & Sons	25,653	Dec. 11	69	1503
Beverages, medicines, chewing-gum, dietetic paste or powder, and confectionery	G. H. McLin	25,266	Sept. 25	68	1624
Beverages. Temperance and summer	B. T. Stephenson	25,051	July 24	68	531
Bicycles	E. B. Preston	25,570	Dec. 4	69	1357
Bicycles	E. K. Tryon, Jr., & Co	24,880	June 12	67	1446
Bicycles and bicycle-lamps	H. Boker & Co	25,114	Aug. 7	68	768
Bicycles and bicycle parts	Acme Manufacturing Company	25,481	Nov. 6	69	788
Bicycles. Ladies'	E. B. Preston	25,571	Dec. 4	69	1357
Bicycles, sulkeys, road-carts, and light or pleasure vehicles	Central Cycle Manufacturing Company	25,005	July 10	68	278
Bicycles, tricycles, and like vehicles	Ariel Cycle Manufacturing Company	25,113	Aug. 7	68	768
Bicycles, tricycles, and other velocipedes	Singer & Co	25,746	Dec. 25	69	1772
Bicycles, tricycles, and velocipedes	A. Mecky	25,145	Aug. 14	68	912
Bicycles, tricycles, velocipedes, and parts thereof	Birmingham Small Arms and Metal Company	24,732	May 15	67	926
Bicycles, velocipedes, their parts and attachments	C. B. Clark	24,613	Apr. 24	67	528
Billiard-table cushions made of rubber compound	Brunswick-Balke-Collender Company	24,237	Feb. 13	66	1166
Binding and paper-box machines	Gebrüder Brehmer	25,437	Oct. 30	69	638
Biscuit. Celery	S. B. Clark	24,455	Apr. 3	67	135
Bitters. Stomach	J. P. Fixmer	25,540	Nov. 20	69	1066
Bitters. Vegetable	E. N. Bates	25,295	Oct. 2	69	119
Blacking, dressing, and rubber and leather cement for boots and shoes	Laing, Son & Harrar	24,477	Apr. 3	67	138
Blacking. Shoe	Jas. S. Mason Company	23,993	Jan. 2	66	170
Blind-ladder tapes	J. Carr & Sons	25,742	Dec. 25	69	1771
Blood-purifier and liver and kidney regulator	I. E. Zimmerman	24,466	Apr. 3	67	137
Blood-purifiers	J. T. Farrell	24,784	May 29	67	1187
Blood purifiers	Rockwood & McCallum	25,268	Sept. 25	68	1625
Blood-purifiers and tonics	W. R. Kennard	25,683	Dec. 18	69	1639
Blood-purifiers and tonics	W. R. Kennard	25,684	Dec. 18	69	1639
Blood-purifiers and tonics	W. R. Kennard	25,707	Dec. 25	69	1768
Blood-purifiers and tonics	W. R. Kennard	25,708	Dec. 25	69	1768
Blood-purifying compounds	S. Taffinder y Co	25,376	Oct. 16	69	367
Blood-purifying herb teas	Weber's Medical Tea Co	24,783	May 29	67	1187
Blood-purifying tea, liniment, salve, and cough sirup	H. H. Hackendahl	23,986	Jan. 2	66	169
Boilers. Compound for removing scale from	W. M. Plantz & Co	24,849	June 12	67	1444
Boilers. Compound to remove and prevent scale on	R. Puhlman	24,825	June 5	67	1327
Boilers. Heating and power	Howe, Hopkins & Bassett	24,564	Apr. 17	67	400
Bonbons	Walter M. Lowney Company	24,972	July 3	68	141
Bonbons and chewing-gum	Royal Remedy and Extract Company	24,844	June 12	67	1443
Bonnets, hats, caps, and hoods for ladies and children	Strawbridge & Clothier	24,276	Feb. 27	66	1446
Bone-black, bone-meal, and hoof-meal	Nolte & Dolch Fertilizer Company	25,130	Aug. 14	68	910
Books, pamphlets, newspapers, and other publications	Colliery Engineer Company	25,438	Nov. 6	69	785
Books. Pass-	W. J. Darrow Publishing Co	24,774	May 29	67	1186

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Title.	Name.	No.	Date.	Official Gazette.	
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Boot or shoe toe-protectors	American Shoe Tip Company	24,042	Jan. 16	66	452
Boots and shoes	W. H. Fearey	24,441	Apr. 3	67	134
Boots and shoes	W. H. Fearey	24,442	Apr. 3	67	134
Boots and shoes	J. B. Lewis Company	25,409	Oct. 30	69	636
Boots and shoes	Regal Shoe Co.	25,703	Dec. 25	69	1768
Boots and shoes	Stearns Shoe Co.	25,441	Nov. 6	69	785
Boots and shoes	Terry, Ware & Alley	24,634	May 1	67	673
Boots and shoes	Versteeg-Grant Shoe Company	24,528	Apr. 17	67	396
Boots and shoes and leather for uppers	Rice & Hutchins	25,386	Oct. 23	69	505
Boots and shoes. Leather	B. A. Corbin & Son	24,570	Apr. 24	67	524
Boots and shoes. Leather	R. B. Grover & Co	24,204	Feb. 13	66	1163
Boots and shoes. Leather	R. B. Grover & Co	24,205	Feb. 13	66	1163
Boots and shoes. Leather	M. Hessberg	25,012	July 17	68	409
Boots and shoes. Leather	J. B. Lewis Company	24,615	May 1	67	672
Boots and shoes. Leather	E. H. Noble	25,173	Aug. 28	68	1139
Boots and shoes. Leather	Noyes, Norman & Co	25,306	Oct. 9	69	238
Boots and shoes. Men's	Regal Shoe Co	24,706	May 15	67	923
Boots and shoes other than rubber	F. L. May	24,163	Feb. 6	66	1000
Boots, shoes, and footwear manufactured of leather and cloth. Ladies'	Rumsey Bros	24,245	Feb. 20	66	1304
Boots, shoes, and slippers	Dexter Shoe Company	24,375	Mar. 20	66	189
Boots, shoes, and slippers	D. H. Fitzgerald	25,172	Aug. 28	68	1139
Boots, shoes, and soles therefor	F. T. Kee	25,621	Dec. 11	69	1500
Boots, shoes, coats, and other clothing of rubber or rubber compounds. Rubber	Lambertville Rubber Company	25,487	Nov. 13	69	940
Boots, shoes, coats, and other clothing of rubber or rubber compounds. Rubber	Lambertville Rubber Company	25,488	Nov. 13	69	940
Boots, shoes, overshoes, slippers, and rubbers	E. H. Noble	25,090	Aug. 7	68	766
Borax	F. M. Smith	23,900	Jan. 2	66	169
Bows, ties, and scarfs for neckwear	Altman Summer Neckwear Company	25,089	Aug. 7	68	766
Braces, bolts, nails, screws, washers, fastenings, and similar articles of builders' hardware	Stanley Tool Works	24,562	Apr. 17	67	399
Braids	Lazarus, Schwarz & Lipper	24,101	Jan. 23	66	648
Brandy. Cognac	Moullon & Cie	24,532	Apr. 17	67	307
Brandy. Cognac	Moullon & Cie	24,533	Apr. 17	67	397
Brandy. Cherry	P. N. Heering	24,224	Feb. 13	66	1165
Bread	J. H. Althans	24,262	June 12	67	1445
Bread	J. Schmalz & Son	24,307	Mar. 6	66	1590
Bread	Vienna Bakery Company	24,132	Jan. 30	66	842
Bread	F. Westernman	25,593	Dec. 4	69	1358
Bread, crackers, biscuits, cakes, and like articles	Wm. Schmidt Baking Company	25,520	Nov. 13	69	943
Bread. Loaves of	Probst & Schomaker	24,509	Apr. 10	67	269
Brick, tile, and articles made of fire-clay. Fire	Harbison & Walker	24,272	Feb. 20	66	1306
Brick, tile, and articles made of fire-clay. Fire	Harbison & Walker	24,273	Feb. 20	66	1306
Bricks. Building	Menomonic Pressed Brick Company	24,073	Jan. 16	66	455
Brilliants. White	Ripley Howland Manufacturing Company	25,619	Dec. 11	69	1500
Bronchial wafers, troches, and lozenges	Stone Medicine Company	23,987	Jan. 2	66	169
Bronzing liquid or gold paint	E. P. E. King and L. G. Rose	23,994	Jan. 2	66	170
Brooms	Merkle-Wiley Broom Company	25,434	Oct. 30	69	638
Brooms and brushee	Robinson & Ebert	24,288	Mar. 6	66	1588
Brushes and brooms	Actien-Gesellschaft für Bürsten-Industrie	25,753	Dec. 25	69	1772
Brushes. Hair and clothes	Florence Manufacturing Company	24,527	Apr. 17	67	396
Brushes. Varnish	E. Clinton & Co	24,106	Jan. 23	66	649
Brushes. Varnish	C. K. Van Rensselaer	24,289	Mar. 6	66	1588
Bug-powder	A. Nussey	25,058	July 24	68	531
Buggies	Banner Buggy Company	25,006	July 10	68	278
Building, paving, and insulating composition	A. P. McKean	24,478	Apr. 3	67	138
Butter	Elgin Butter Company	24,217	Feb. 13	66	1164
Butter	Elgin Creamery Company	25,470	Nov. 6	69	787
Butter	Smyrna Creamery Company	24,085	Jan. 23	66	647
Butter	N. C. Skilton & Co	24,750	May 22	67	1062
Butter. Print	Garber, Reist & Co	25,221	Sept. 11	68	1387
Butterine	Brann & Fitts	25,372	Oct. 16	69	367
Butterine	Wilkins & Company	24,462	Apr. 3	67	136
Buttons	Newell Bros. Manufacturing Company	25,010	July 17	68	409
Buttons and studs. Cuff, collar, and other ornamental	Pfäelzer Brothers & Co	25,240	Sept. 18	68	1515
Buttons. Collar and cuff	R. Benedict	25,041	July 24	68	529
Buttons made of wood, ivory, and metal, and cloth-covered buttons	N. C. Newell	24,886	June 19	67	1567
Buttons, pins, and charms. Gold	C. L. Rost	25,279	Oct. 2	69	117
Buttons, pins, and charms. Gold	H. R. Rost	24,984	July 10	68	277
Cake-tins	Richardson Manufacturing Co	25,062	July 24	68	532
Cakes	New York Biscuit Company	25,019	Nov. 13	69	943
Cakes, biscuits, bread, and confectionery	McVitie & Price	25,592	Dec. 4	69	1355
Cakes, crackers, and biscuits	E. Ivins	24,308	Mar. 6	66	1590
Candied fruits and confectionery	Crystal Confectionery Company	25,515	Nov. 13	69	942
Candies and gum. Antiseptic chewing	Antiseptic Company	24,142	Jan. 30	66	842
Candies and sweetmeats	Callard & Bowser	24,507	Apr. 10	67	269
Candies, conserves, confections, cough drops, and chewing-gum	Mull & Underwood	25,591	Dec. 4	69	1358
Candy and candied fruits and flowers	Stern & Saalberg	24,090	Jan. 23	66	648
Cane mill. Sugar	F. C. M. Lautz	25,748	Dec. 25	69	1772
Cane mill. Sugar	F. C. M. Lautz	25,749	Dec. 25	60	1772
Cane mill. Sugar	F. C. M. Lautz	25,750	Dec. 25	69	1772
Cane mill. Sugar	F. C. M. Lautz	25,751	Dec. 25	69	1772
Cane mill. Sugar	F. C. M. Lautz	25,752	Dec. 25	69	1772
Canned and cured meats and lard and tallow	Rohe & Brother	25,549	Nov. 20	69	1066
Canned and hermetically-sealed goods	M. J. Boyer	24,461	Apr. 3	67	136
Canned and preserved fruits and vegetables	Reeves, Parvin & Co	24,918	June 26	67	1716
Canned and preserved fruits and vegetables	Reeves, Parvin & Co	25,218	Sept. 11	68	1386
Canned corn	J. M. McMurray	25,161	Aug. 21	68	1019

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Canned corn	J. M. McMurray	25,165	Aug. 21	68	1019
Canned corn	J. M. McMurray	25,189	Aug. 28	68	1141
Canned corn	J. M. McMurray	25,190	Aug. 28	68	1141
Canned fish, fruit, and vegetables	Moos & Co	24,424	Mar. 27	66	2049
Canned fish	J. H. Mohlman Company	25,548	Nov. 20	69	1066
Canned foods. All kinds of	Adam Roth Grocery Company	24,177	Feb. 6	66	1002
Canned fruit and vegetables	Bloomington Canning Company	24,214	Feb. 13	66	1164
Canned fruit, vegetables, and fish, except oysters	R. H. Macy & Co	24,254	Feb. 20	66	1305
Canned goods	Bennett, Sloan & Co	24,302	Mar. 6	66	1590
Canned goods	Bennett, Sloan & Co	24,303	Mar. 6	66	1590
Canned goods	Bryan, Miner & Read	25,475	Nov. 6	69	788
Canned goods, flour, meal, sugar, tea, coff. e, pepper, and salt	Blyth & Co	25,370	Oct. 16	69	367
Canned goods, spices, flour, meal, sugar, tea, coffee, pepper, and salt	Shaw Brothers	25,253	Sept. 18	68	1517
Canned lobster	Burnham & Morrill Company	24,459	Apr. 3	67	136
Canned meats	S. Green	25,473	Nov. 6	69	788
Canned meats	S. Green	25,474	Nov. 6	69	788
Canned meats, fish, fruits, spices, condiments, and vegetables, except corn	Bennett, Sloan & Co	24,301	Mar. 6	66	1590
Canned meats, fruits, and vegetables	D. W. Archer	24,126	Jan. 30	66	841
Canned meats, lard, and substitutes for lard	S. Green	25,514	Nov. 13	69	942
Canned meats, vegetables, fish, and fruits	Harris-Payson Company	24,020	Jan. 23	66	647
Canned salmon	Alaska Packers' Association	25,588	Dec. 4	69	1358
Canned salmon	Alaska Packers' Association	25,599	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,600	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,601	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,602	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,603	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,604	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,605	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,606	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,607	Dec. 4	69	1359
Canned salmon	Alaska Packers' Association	25,608	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,609	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,610	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,611	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,612	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,613	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,614	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,615	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,616	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,617	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,618	Dec. 4	69	1360
Canned salmon	Alaska Packers' Association	25,722	Dec. 25	69	1770
Canned salmon	Alaska Packers' Association	25,723	Dec. 25	69	1770
Canned salmon	Alaska Packers' Association	25,724	Dec. 25	69	1770
Canned salmon	Alaska Packers' Association	25,725	Dec. 25	69	1770
Canned salmon	Alaska Packers' Association	25,726	Dec. 25	69	1770
Canned salmon	Alaska Packers' Association	25,727	Dec. 25	69	1770
Canned salmon	Alaska Packers' Association	25,728	Dec. 25	69	1770
Canned salmon	Alaska Packers' Association	25,729	Dec. 25	69	1770
Canned salmon	J. A. Devlin	25,374	Oct. 16	69	367
Canned salmon	H. Eggers & Co	24,127	Jan. 30	61	841
Canned vegetables and fruits and bottled catsups and pickles	Huntton & Gorham	25,254	Sept. 18	68	1517
Canvas, hose-duck, awning-stripes, sail-duck, sail-twine, seine-twine, sewing-twine, and thread	Greenwoods Company	24,521	Apr. 10	67	270
Capsules, pills, and medicated jujubes	Warrick Brothers	21,689	May 8	67	809
Carbons. Arc-light	Helios Electric Company	25,067	July 31	68	654
Carpenters' and woodworking tools	J. Swan	24,283	Feb. 27	66	1446
Carpet-sweepers	Sweeperette Co.	25,738	Dec. 25	69	1771
Carpets	W. C. Gray	25,677	Dec. 18	69	1638
Carpets	W. C. Gray	25,678	Dec. 18	69	1638
Carpets	W. C. Gray	25,679	Dec. 18	69	1638
Carpets. Ingrain	John Gay's Sons	24,943	July 3	68	138
Cartridge-shells	Union Metallic Cartridge Company	25,084	July 31	68	654
Cartridges. Paper-shell	Winchester Repeating Arms Company	24,764	May 22	67	1063
Cartridges. Paper-shell	Winchester Repeating Arms Company	24,765	May 22	67	1063
Cassimeres	Reynolds Manufacturing Company	24,885	June 19	67	1567
Castings, tinners' hardware, roofers' supplies, and heater and range fittings. Malleable and gray iron	Berger Bros	25,259	Sept. 18	68	1518
Catalogues and newspapers	F. M. Sproehle & Co	25,663	Dec. 11	69	1504
Catarrh cure, chili cure, and blood sirup	W. J. Thurmond	24,956	July 3	68	139
Catsup. Tomato	Anderson Preserving Company	24,508	Apr. 10	67	269
Catsup. Tomato	J. Reitzel & Co	24,577	Apr. 24	67	525
Celery-seed and fluid extract of sarsaparilla. Liquid compound of	King's Medicine Company	24,627	May 1	67	673
Cement and asphalt blocks and slabs for walks and floors	Simpson Brothers Company	24,931	June 26	67	1718
Cement. Builders'	J. W. Palmer	24,605	Apr. 24	67	527
Cement. Builders'	J. W. Palmer	24,606	Apr. 24	67	527
Cement. Builders'	J. W. Palmer	24,607	Apr. 24	67	527
Cement for use on rubber and leather	G. Brandenburg	25,140	Aug. 14	68	911
Cement. Household	W. F. Appleby	25,736	Dec. 25	69	1771
Cement, lime, and plaster-of-paris	Union Cement and Lime Company	24,649	May 1	67	674
Cement, lime, or plaster-of-paris	Union Cement and Lime Company	24,608	Apr. 24	67	528
Cement. Portland	Commercial Wood and Cement Company	24,969	July 3	68	141
Cement. Portland	Glens Falls Portland Cement Company	25,153	Aug. 21	68	1018
Cement. Portland	Lägerdorfer Portland Cement Fabrik von Eug. Lion & Co.	25,298	Oct. 2	69	119
Cement. Portland	H. & E. Lion	24,906	June 19	67	1569
Cement. Portland	Société Anonyme Union Fraternelle	24,930	June 26	67	1717

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Cereals, flours, and foods. Certain named	F. Acker & Co	25,326	Oct. 9	69	240
Cereals. Rolled	J. Beck & Sons	25,030	July 17	68	411
Certain named specialties	Dittman & Krug	24,763	May 22	67	1063
Chains. Watch and locket	D. F. Briggs Co	24,709	May 15	67	923
Chairs. Reclining	Allen & Bro	24,699	May 8	67	810
Chamois-skin. Imitation	American Fibre Chamois Company	24,656	May 8	67	807
Champagne. A temperance drink in imitation of	P. E. Peterson	24,955	July 3	68	139
Champagne. Coca tonic	Veuve Laurent Cie	25,710	Dec. 25	69	1769
Cheese	O. C. Evans	25,209	Sept. 4	68	1272
Cheese	J. & J. Nenenschwander	24,060	Jan. 16	66	454
Cheese	La Société des Caves et des Producteurs Réunis	25,285	Oct. 2	69	117
Chemical and pharmaceutical preparations	Actien-Gesellschaft für Anilin-Fabrikation	24,418	Mar. 27	66	2049
Chemical and pharmaceutical preparations	Ichthyol Gesellschaft, Cordes, Hermann & Co	24,352	Mar. 13	66	1753
Chemical and pharmaceutical preparations	Ichthyol Gesellschaft, Cordes, Hermann & Co	24,353	Mar. 13	66	1753
Chemicals	Bidcl Chemical Works	25,497	Nov. 13	69	941
China. French	T. Haviland	24,773	May 29	67	1186
China, including plumbers' and toilet ware. Vitreous	Maryland Pottery Company of Baltimore City	24,876	June 12	67	1446
China, including plumbers' and toilet ware. Vitreous	Maryland Pottery Company of Baltimore City	24,877	June 12	67	1446
China, including plumbers' and toilet ware. Vitreous	Maryland Pottery Company of Baltimore City	24,932	June 26	67	1718
China, including plumbers' and toilet ware. Vitreous	Maryland Pottery Company of Baltimore City	24,933	June 26	67	1718
China. Vitreous	Keystone Pottery Company	25,417	Oct. 30	69	636
Chinaware, artistic ceramic products, and earthenware	Ludwig Wessel Actien-Gesellschaft für Porzellan- und Steingut-Fabrikation	25,083	July 31	68	654
Chocolate	A. H. Stillwell	24,386	Mar. 20	66	1890
Chocolate creams, caramels, and candies	Darby Manufacturing Company of Baltimore City	24,575	Apr. 24	67	524
Chocolate in powdered form or in tablets	Hance Bros. & White	25,126	Aug. 14	68	910
Chocolates and cocoas	Russ-Suchard et Cie	24,853	June 12	67	1444
Cigarette-paper	Société Anonyme d'Exploitation des Papeteries L. Lacroix Fils	25,395	Oct. 23	69	506
Cigarette-wrappers made of wheat-straw	Société Anonyme d'Exploitation des Papeteries L. Lacroix Fils	25,573	Dec. 4	69	1357
Cigarettes	Leslie & Welsh	25,463	Nov. 6	69	787
Cigarettes	W. P. Ward	24,887	June 19	67	1567
Cigars	B. E. Cady	24,515	Apr. 10	67	270
Cigars	A. Dehner	24,948	July 3	68	139
Cigars	Estate of Janette Oppelt	24,344	Mar. 13	66	1753
Cigars	J. M. Goldstein	24,413	Mar. 27	66	2048
Cigars	J. M. Goldstein	25,216	Sept. 11	68	1386
Cigars	H. R. Kelly & Company	24,414	Mar. 27	66	2048
Cigars	J. Martinez	24,024	Jan. 9	66	312
Cigars	Marx & Wire Cigar Company	25,066	July 31	68	652
Cigars	C. A. Nager	24,381	Mar. 20	66	1890
Cigars	G. A., C. J., and W. J. Neff	24,949	July 3	68	139
Cigars	R. Reyna	24,382	Mar. 20	66	1890
Cigars	F. R. Rice Mercantile Cigar Company	25,530	Nov. 13	69	944
Cigars	A. Stork, Jr	25,355	Oct. 16	69	365
Cigars	Weeks & Potter Company	24,246	Feb. 20	66	1304
Cigars, all-tobacco cigarettes, and smoking, chewing, and leaf tobacco	S. Hershheim Bros. & Co	25,465	Nov. 6	69	787
Cigars, all-tobacco cigarettes, cheroots, smoking, chewing, and leaf tobacco and snuff	S. Hershheim Bros. & Co	24,447	Apr. 3	67	135
Cigars, all-tobacco cigarettes, cheroots, smoking, chewing, and leaf tobacco and snuff	S. Hershheim Bros. & Co	24,448	Apr. 3	67	135
Cigars and cigarettes	M. Guirand	24,664	May 8	67	807
Cigars and cigarettes	Manchester Cigar Manufacturing Co	24,914	June 26	67	1716
Cigars and cigarettes	Manchester Cigar Manufacturing Co	25,094	Aug. 7	68	766
Cigars and cigarettes	W. B. Murray	24,380	Mar. 20	66	1890
Cigars and smoking-tobacco	A. Starkmann	25,732	Dec. 25	69	1770
Cigars and tobacco	Jas. L. Barbour & Son	25,655	Dec. 11	69	1503
Cigars and tobacco	Jas. L. Barbour & Son	25,656	Dec. 11	69	1503
Cigars and tobacco	Sun Segar Co	25,466	Nov. 6	69	787
Cigars, cheroots, and cigarettes	Hilson Company	25,394	Oct. 23	69	506
Cigars, cigarettes, and smoking and chewing tobacco and snuff	A. Goodman	25,527	Nov. 13	69	944
Cigars, cigarettes, cheroots, and tobacco and snuff	S. Hershheim Bros. & Co	24,378	Mar. 20	66	1890
Cigars, cigarettes, cheroots, and tobacco and snuff	S. Hershheim Bros. & Co	24,379	Mar. 20	66	1890
Cigars, cigarettes, smoking and chewing tobacco, and snuff	A. Goodman	25,553	Nov. 27	69	1206
Clasp for securing underclothing. Metal	F. G. Davis	24,437	Apr. 3	67	134
Cleaning and polishing compounds	G. W. Cole & Co	25,733	Dec. 25	69	1771
Cleaning and polishing preparation	J. Pickering & Sons	25,431	Oct. 30	69	638
Cleaning and polishing preparations. Metal and glass	S. T. Cobb, Jr	24,684	May 8	67	809
Cleaning preparation for use in sweeping carpets	F. Hecht	25,330	Oct. 9	69	240
Clippers. Hair and wool	American Shearer Manufacturing Company	23,953	Jan. 2	66	167
Clock-cases	Waterbury Clock Company	25,086	July 31	68	654
Clocks	Wm. L. Gilbert Clock Company	25,569	Dec. 4	69	1357
Clocks and watches. Mainsprings for	U. Perret	24,071	Jan. 16	66	455
Cloth or canvas backed leather	F. H. Atwood	24,815	June 5	67	1327
Clothes-pins	F. H. Atwood	25,302	Oct. 2	69	119
Clothes-wringers	Howells, Moffitt & Co	25,302	Oct. 2	69	119
Clothes-wringers	American Wringer Company	24,111	Jan. 23	66	649
Clothes-wringers	American Wringer Company	24,111	Jan. 23	66	649
Clothes-wringers	American Wringer Company	24,112	Jan. 23	66	649
Clothes-wringers	American Wringer Company	24,113	Jan. 23	66	649
Clothes-wringers	American Wringer Company	24,114	Jan. 23	66	649

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Clothes-wringers	American Wringer Company	24,115	Jan. 23	66	619
Clothes-wringers	American Wringer Company	24,116	Jan. 23	66	650
Clothing for men and boys	T. W. Farnsworth	25,667	Dec. 18	69	1637
Clothing for men and boys	Greenewald & Co	25,283	Oct. 2	69	117
Clothing for men and boys. Outer	G. Bruck & Co	25,699	Dec. 25	69	1768
Clothing. Men's, boys', and children's	J. Miller, Sons & Co	24,942	July 3	62	138
Clothing. Men's outer	F. L. Dunne	25,564	Dec. 4	69	1356
Clothing other than shirt-waists and under-clothing. Children's	B. M. Holzman	25,485	Nov. 13	69	940
Coal. Bituminous	Goshen Coal Company	25,215	Sept. 4	68	1272
Coal. Bituminous	New Pittsburgh Coal Company	24,519	Apr. 10	67	270
Coal. Bituminous, anthracite, and semi-anthracite	A. Stiewel	25,111	Aug. 7	68	768
Coal-saver. Chemical	Household Friend Company	24,850	June 12	67	1444
Coats, vests, and pantaloons	Standard Clothing Company	25,011	July 17	68	409
Coats, vests, and pantaloons	Work Bros. & Co	25,038	July 24	68	529
Cocktails and punch	W. H. Jones & Co	24,739	May 22	67	1061
Cocoa and cocoa extracts	H. Boisselier	25,647	Dec. 11	69	1502
Codfish. Prepared	W. H. Lord	25,373	Oct. 16	69	367
Codfish. Prepared	W. H. Lord	25,547	Nov. 20	69	1066
Coffee	Alkire Grocer Company	24,173	Feb. 6	66	1001
Coffee	F. W. Dallinger	24,917	June 26	67	1716
Coffee	John Bird Company	24,387	Mar. 20	66	1890
Coffee	Hoffman, Lee & Co	25,717	Dec. 25	69	1769
Coffee	Indiana Coffee Company	25,692	Dec. 18	69	1639
Coffee	Union Pacific Tea Company	24,854	June 12	67	1444
Coffee	Woolson Spice Company	24,451	Apr. 3	67	135
Coffee and other coffee substitutes. Malt-	Kathreiner's Malzkaffee-Fabriken, mit Beschränkter Haftung	25,524	Nov. 13	69	943
Coffee and tea	Shapleigh Coffee Company	24,504	Apr. 10	67	269
Coffee, chicory, and coffee substitutes	L. Rosenstein	25,109	Aug. 7	68	768
Coffee. Essence for use with	G. Floto's Sons	24,503	Apr. 10	67	269
Coffee. Fig essence for flavoring	J. V. Polesny	25,106	Aug. 7	68	767
Coffee in the shape of coffee-beans	Alkire Grocer Company	25,369	Oct. 16	69	367
Coffee. Mocha	St. Louis Mercantile Co	25,047	July 24	68	530
Coffee preparation	Vienna Malt Coffee Co	25,543	Nov. 20	69	1066
Coffee. Roasted	E. J. Gillies & Co	24,220	Feb. 13	66	1164
Cognac	J. Cukor	24,626	May 1	67	672
Coin controlled and operated machines and apparatus	C. C. Clawson	24,772	May 22	67	1064
Collars and cuffs	Emigh & Lobdell	25,337	Oct. 16	69	364
Collars and cuffs made of pyroxylin materials	Fiberloid Company	25,280	Oct. 2	69	117
Collars and cuffs. Waterproof	Celluloid Company	24,034	Jan. 9	66	313
Collars. Men's	Miller, Hall & Hartwell	25,407	Oct. 30	69	636
Colors. Prepared	A. Sartorius & Co	25,498	Nov. 13	69	941
Compound of roots and herbs used as a tea	W. E. Reid	25,377	Oct. 16	69	367
Compounds for cleaning wood and leather	G. Fuller	24,153	Jan. 30	66	843
Condensers. Steam-engine	Geo. T. Blake Manufacturing Company	25,304	Oct. 2	69	120
Condition-powders	W. G. Tilghman	24,756	May 22	67	1062
Confectioners' oil dressing	Chesapeake Oil Co	24,547	Apr. 17	67	398
Confectionery	Callard & Bowser	24,620	May 1	67	672
Confections, candy, cake, and fruit	Flows Candy Company	25,068	July 31	68	652
Confections, comprising caramels, creams, chocolates, and similar candies. Unfrozen	Phoenix Candy Manufacturing Co	25,125	Aug. 14	68	910
Confections. Sugar and licorice	M. Michaelis & Sons	24,453	Apr. 3	67	135
Cord. Braided cotton window or sash	Samson Cordage Works	24,411	Mar. 27	66	2048
Cord. Sash and curtain	Ossawan Mills Company	25,411	Oct. 30	69	636
Cornmeal	Indian Rice Milling Company	25,252	Sept. 18	68	1517
Corn-plasters, nervines, cough mixtures, headache-powders, and cod-liver oil	C. A. Drefs	24,593	Apr. 24	67	526
Corn-starch	T. Kingsford	24,715	May 15	67	924
Corset steels and clasps	Worcester Corset Company	24,490	Apr. 10	67	267
Corset-waists	E. Pohl & Co	24,440	Apr. 3	67	134
Corsets	J. M. Jacobs	25,039	July 24	68	529
Corsets	J. E. Lancaster	25,385	Oct. 23	69	505
Corsets	Worcester Corset Company	24,489	Apr. 10	67	267
Corsets and corset-clasps	E. Schweinburg	25,482	Nov. 13	69	940
Corsets and gloves	J. Lichtenstein & Sons	25,281	Oct. 2	69	117
Corsets and gloves	J. Lichtenstein & Sons	25,307	Oct. 9	69	238
Corsets and waists	G. D. Nichols	24,912	June 26	67	1716
Corsets and waists	G. D. Nichols	25,406	Oct. 30	69	636
Corsets. Ladies'	Worcester Corset Company	24,614	May 1	67	672
Corsets, waists, dress-stays, bustles, and bust-forms	Coronet Corset Company	24,704	May 15	67	923
Cosmetic, lotion, cream, jelly, and soap for the toilet	Sylvan Toilet Co	24,186	Feb. 6	66	1003
Cosmetics, hair-oils, and perfumes	Winkelmann & Brown Drug Company	25,500	Nov. 13	69	941
Cosmetical paste for the complexion	W. P. Hallock	25,137	Aug. 14	68	911
Cotton and mixed cotton goods	I. Wallach	25,008	July 17	68	409
Cotton and mixed cotton goods	I. Wallach	25,009	July 17	68	409
Cotton-batting and prepared cotton for mattresses and other purposes	Ostermoor & Co	25,091	Aug. 7	68	766
Cotton dress goods and shirtings	Cone Export and Commission Company	24,812	June 5	67	1326
Cotton dress goods and shirtings	Cone Export and Commission Company	24,813	June 5	67	1326
Cotton duck	Woodberry Manufacturing Company	24,039	Jan. 16	66	452
Cotton duck	Woodberry Manufacturing Company	24,040	Jan. 16	66	452
Cotton duck	Woodberry Manufacturing Company	24,287	Mar. 6	66	1588
Cotton duck and twines	Woodberry Manufacturing Company	24,041	Jan. 16	66	452
Cotton fabrics	Amoskeag Manufacturing Company	24,884	June 19	67	1567
Cotton fabrics	Bernheimer & Walter	24,124	Jan. 30	66	841

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Cotton goods	Bernheimer & Walter	24,702	May 15	67	923
Cotton goods	Coventry Company	24,209	Feb. 13	66	1163
Cotton goods	Coventry Company	24,210	Feb. 13	66	1163
Cotton goods	J. W. Woods & Son	24,265	Feb. 20	66	1306
Cotton goods. Brown, bleached, and printed	G. Willis	24,944	July 3	68	138
Cotton goods. Woven	Massachusetts Cotton Mills	24,285	Mar. 6	66	1588
Cotton goods. Woven	Massachusetts Cotton Mills	24,286	Mar. 6	66	1588
Cotton goods. Woven	Massachusetts Cotton Mills	24,330	Mar. 13	66	1751
Cotton goods. Woven	Massachusetts Cotton Mills	24,331	Mar. 13	66	1751
Cotton goods. Woven	Massachusetts Cotton Mills	24,332	Mar. 13	66	1751
Cotton goods. Woven	Massachusetts Cotton Mills	24,775	May 29	67	1186
Cotton goods. Woven	Massachusetts Cotton Mills	25,676	Dec. 18	69	1638
Cotton. Knitting	Dexter Yarn Company	24,121	Jan. 30	66	841
Cotton, linen, woolen, and mixed fabrics	M. O. West	25,262	Sept. 25	68	1624
Cotton, linen, woolen, worsted, and silk, velvet, and velveteen fabrics	Albion Company	24,376	Mar. 20	66	1389
Cotton piece goods	Pelzer Manufacturing Company	25,704	Dec. 25	69	1768
Cotton plaids and stripes	Eagle and Phenix Manufacturing Company	24,839	June 12	67	1443
Cotton. Spool	Willimantic Linen Company	25,626	Dec. 11	69	1500
Cotton. Spool	Willimantic Linen Company	25,627	Dec. 11	69	1500
Cotton. Spool	Willimantic Linen Company	25,628	Dec. 11	69	1500
Cotton. Spool	Willimantic Linen Company	25,629	Dec. 11	69	1501
Cotton. Spool	Willimantic Linen Company	25,630	Dec. 11	69	1501
Cotton. Spool	Willimantic Linen Company	25,631	Dec. 11	69	1501
Cotton. Spool	Willimantic Linen Company	25,632	Dec. 11	69	1501
Cotton. Spool	Willimantic Linen Company	25,633	Dec. 11	69	1501
Cotton. Spool	Willimantic Linen Company	25,634	Dec. 11	69	1501
Cotton. Spool	Willimantic Linen Company	25,635	Dec. 11	69	1501
Cotton. Spool	Willimantic Linen Company	25,636	Dec. 11	69	1501
Cough drops	J. F. Beane	24,470	Apr. 3	67	137
Cough drops	W. E. Hamblin	25,205	Nov. 13	69	941
Cough lozenges	G. J. Blome	25,579	Dec. 4	69	1357
Cough sirup	Roy & Boire Drug Co.	25,019	July 17	68	410
Cough sirups	B. H. Goll	24,758	May 22	67	1063
Cough tablets	Columbian Medicine Company	25,052	July 24	68	581
Cracker-machines	New York Biscuit Company	25,479	Nov. 6	69	788
Crackers	W. H. Daniels	25,718	Dec. 25	69	1769
Crackers and biscuits	American Biscuit and Manufacturing Company	24,818	June 5	67	1327
Crackers or biscuits	New York Biscuit Company	25,397	Oct. 23	69	506
Crape	Pacific Mills	24,329	Mar. 13	66	1751
Cycles	Fenton Metallic Manufacturing Company	24,169	Feb. 6	66	1001
Cream of tartar	John Bird Company	24,858	June 12	67	1444
Crème de menthe	E. Cusenier Fils Aîné & Compagnie	24,642	May 1	67	674
Crystalline pictures	A. von Cotzhausen	25,572	Dec. 4	69	1357
Cnraçoa	M. Lapostolle	25,542	Nov. 20	69	1066
Cure for the heaves in horses	P. Schneck	24,834	June 5	67	1328
Cure. Pile	Pyramid Drug Co.	24,597	Apr. 24	67	526
Currants. Dried	Stelle & Dorgeloh	25,467	Nov. 6	69	787
Cutlery	H. Boker & Co.	25,347	Oct. 16	69	365
Cutlery	Krusius Brothers	25,346	Oct. 16	69	365
Cutlery and carpenters', machinists', and farmers' tools and hardware	Beck & Gregg Hardware Company	24,935	June 26	67	1718
Cutlery and edge-tools	T. Ellin & Co.	25,507	Nov. 13	69	942
Cutlery and edge-tools	T. Ellin & Co.	25,509	Nov. 13	69	942
Cutlery. Certain named	Dunham, Carrigan & Hayden Company	24,610	Apr. 24	67	528
Cutlery. Pocket	Southington Cutlery Company	24,694	May 8	67	810
Cutlery, tools for carpenters, machinists, and farmers, and hardware	Beck & Gregg Hardware Company	24,982	July 3	68	142
Cutlery, tools, metal goods, and hollow ware	J. Pinder	25,741	Dec. 25	69	1772
Cycles	Telegram Cycle Manufacturing Company	24,700	May 8	67	810
Cycles	Witch City Cycle Co.	25,745	Dec. 25	69	1772
Cycles, tennis rackets and balls, and base balls and bats	Overman Wheel Company	25,167	Aug. 21	68	1020
Cycles, tennis-rackets, balls, and bats	Overman Wheel Company	25,480	Nov. 6	69	788
Denims and camlets	Cone Export and Commission Company	24,333	Mar. 13	66	1752
Denims and camlets	Cone Export and Commission Company	24,334	Mar. 13	66	1752
Denims. Blue	Massachusetts Cotton Mills	24,655	May 8	67	807
Denims, tickings, cotton flannels, cotton dress goods, and cottonades	Everett Mills	24,328	Mar. 13	66	1751
Dental gold-foil	S. S. White Dental Manufacturing Company	24,940	July 3	68	138
Dental gum or rubber	S. S. White Dental Manufacturing Company	24,941	July 3	68	138
Dental preparations	J. A. Bermudez	24,846	June 12	67	1444
Dentifrice	Allen-Foise Manufacturing Company	25,681	Dec. 18	69	1638
Dentifrice	L. J. de Carballo	24,640	May 1	67	674
Dentifrices	W. T. Arrington	25,459	Nov. 6	69	788
Deodorant powder	H. S. McDonald	25,229	Sept. 11	68	1387
Desks. Roll-top	Standard Furniture Company	24,368	Mar. 13	66	1754
Detergent. Liquid	V. Belikan	24,632	May 1	67	673
Disinfectants	Miller Brothers	24,011	Jan. 9	66	311
Disinfectants	Read Holliday & Sons	24,633	May 1	67	673
Disinfectants	Read Holliday & Sons	24,650	May 1	67	674
Disinfectants, insecticides, and rat and roach powder	Sanitol Manufacturing Co.	25,274	Sept. 25	68	1625
Disinfecting and deodorizing preparations	Odol Company	25,522	Dec. 4	69	1358
Disinfecting-powder	Royal Manufacturing Co.	25,211	Sept. 4	68	1272
Disinfecting product	Lebon & Salomon	24,189	Feb. 6	66	1003

Alphabetical list of trade-marks—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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Diuretics.....	G. Fournier.....	24,229	Feb. 13	66	1165
Doeskin jeans.....	Reynolds Manufacturing Co.....	24,911	June 26	67	1716
Dolls.....	Hinrichs & Co.....	25,239	Sept. 18	69	1515
Dress-shields.....	Amolin Company.....	24,244	Feb. 20	66	1304
Dress-shields.....	Canfield Rubber Company.....	24,208	Feb. 13	66	1163
Dress-shields. Seamless stockinet.....	I. B. Kleinert Rubber Company.....	24,703	May 15	67	923
Dressing for giving a finish to textile fabrics.....	A. M. Fyfe.....	24,248	Feb. 20	66	1304
Dye-stuffs.....	L. Durand, Huguenin & Co.....	24,277	Feb. 27	66	1446
Dyes. Family.....	Heitmann Bros.....	24,183	Feb. 6	66	1002
Dyes. Household.....	H. Krunhaar.....	25,139	Aug. 14	68	911
Edge-tools.....	Collins Company.....	24,030	Jan. 9	66	313
Edge-tools. Certain named.....	Collins Company.....	24,074	Jan. 16	66	455
Edibles. Certain named.....	G. H. Hammond Company.....	24,579	Apr. 24	67	525
Eggs.....	K. Brooks.....	25,388	Mar. 20	66	1891
Eggs. Compound adapted as a substitute for.....	Cunningham Manufacturing Company.....	25,180	Aug. 28	68	1140
Eider-down cloth.....	Henry H. Bells Sons Company.....	24,409	Mar. 27	66	2048
Electric-fan outfits, cleats, cut-outs, and insulators.....	J. S. Potter.....	25,007	July 10	68	278
Electrical charge or current. Apparatus for the measurement of.....	Europeau Western Electrical Instrument Company.....	24,430	Mar. 27	66	2050
Electrical instruments for measuring current, potential, and resistance.....	Queen & Company.....	24,566	Apr. 17	67	400
Electrical machines, apparatus, and supplies.....	Crescent Electric Machine Company.....	25,234	Sept. 11	68	1388
Extracts and baking-powder. Flavoring.....	C. F. Sauer Company.....	25,222	Sept. 11	68	1386
Electro-magneto appliances.....	A. Harding.....	24,027	Jan. 9	66	313
Elixir.....	C. Bailly & Cie.....	24,397	Mar. 20	66	1891
Enameled steelware for household use.....	Bellaire Stamping Company.....	24,324	Mar. 3	66	1592
Evaporated carrots, parsnips, rutabagas, turnips, and food products made therefrom.....	E. Straus.....	24,511	Apr. 10	67	269
Extracts. Flavoring and perfuming.....	C. S. Netter.....	24,545	Apr. 17	67	398
Extracts for culinary purposes. Flavoring.....	Big Wheel Company.....	24,717	May 15	67	924
Eye-water.....	A. E. Brady.....	24,538	Apr. 17	67	397
Eye-water.....	Father Lehreton Eye Water Company.....	24,350	Mar. 13	66	1753
Eyelets for shoes. Metallic.....	C. G. Bac.....	24,160	Feb. 6	66	1000
Fabrics. Black-dyed.....	Sterling Dyeing and Finishing Company.....	25,308	Oct. 9	69	238
Fabrics. Black-dyed.....	Sterling Dyeing and Finishing Company.....	25,309	Oct. 9	69	238
Face powder.....	H. Tetlow.....	24,297	Mar. 6	66	1589
Face powder.....	H. Tetlow.....	24,588	Apr. 24	67	526
Faucets.....	E. Stebbins Manufacturing Company.....	24,804	May 29	67	1188
Feed for stock.....	G. A. Hax.....	25,183	Aug. 28	68	1140
Fence-wire.....	Cleveland Fence Company.....	21,980	July 3	64	142
Fencing. Woven-wire.....	Keystone Woven Wire Fence Company.....	24,107	Jan. 23	66	649
Fertilizer.....	Charleston, S. C., Mining and Manufacturing Company.....	24,154	Jan. 30	66	844
Fertilizer.....	S. Mayer and W. B. Watts.....	24,155	Jan. 30	66	844
Fertilizer. Artificial.....	Mount Airy Manufacturing Company.....	24,970	July 3	68	141
Fertilizers.....	J. J. Allen's Sons.....	24,420	Mar. 27	66	2049
Fertilizers.....	Emil Winter Company.....	24,762	May 22	67	1063
Fertilizers.....	L. Sanderson.....	25,299	Oct. 2	69	119
Fiber and articles made therefrom, including such articles as washers, sheets, rolls, tubes, and tags. Compressed vegetable.....	Vulcanized Fibre Company.....	24,044	Jan. 16	66	452
Fiber, leather-board, leatheroid, and trunks and other articles made therefrom.....	J. Cummings, Son & Co.....	24,843	June 12	67	1443
Files for holding papers. Box.....	W. A. Cooke, Jr.....	25,739	Dec. 25	69	1771
Filters. Domestic water.....	Freedman & Knight.....	25,112	Aug. 7	68	768
Finger-rings.....	E. De Rogy.....	24,072	Jan. 16	66	455
Firearms.....	Wiebusch & Hilger.....	24,646	May 1	67	674
Firearms.....	Wiebusch & Hilger.....	24,647	May 1	67	674
Fish.....	Slute & Merchant.....	24,181	Feb. 6	66	1002
Fish and meat packed in tin cans.....	J. O. Hanthorn & Co.....	24,460	Apr. 3	67	136
Fish-nets.....	Barbour Bros. Company.....	24,212	Feb. 13	66	1164
Fishing-reel and fishing-reel cross-plates.....	United States Net and Twine Company.....	24,979	July 3	68	142
Flavoring extracts.....	Price Flavoring Extract Company.....	25,205	Sept. 4	68	1272
Flavoring extracts.....	Price Flavoring Extract Company.....	25,206	Sept. 4	68	1272
Fleece-lined fabrics.....	Beach Manufacturing Company.....	24,035	Jan. 9	66	314
Flour.....	H. A. Huefner.....	25,160	Aug. 21	68	1019
Flour.....	F. E. Smith.....	24,859	June 12	67	1444
Flour and other ground cereals.....	G. C. Mason & Co.....	24,056	Jan. 23	66	647
Flour and prepared cereals.....	Farwell & Rhines.....	24,919	June 26	67	1717
Flour, cornmeal, farina, grits, oatmeal, and crushed cereals.....	North Pacific Flour Mills Company.....	24,975	July 3	68	141
Flour, meal, and crushed cereals.....	E. Elsworth & Co.....	24,061	Jan. 16	66	454
Flour, meal, and crushed cereals.....	E. Elsworth & Co.....	24,062	Jan. 16	66	454
Flour, oatmeal, and crushed cereals.....	E. Elsworth & Co.....	24,551	Apr. 17	67	398
Flour, oatmeal, parched wheat, and other cereal foods.....	J. B. A. Kern & Sons.....	24,456	Apr. 3	67	135
Flour. Wheat.....	H. W. Bond.....	24,581	Apr. 24	67	525
Flour. Wheat.....	Bothfeld & Weygandt.....	24,976	July 3	68	141
Flour. Wheat.....	Buffalo Milling Company.....	24,130	Jan. 30	66	842
Flour. Wheat.....	Cleveland Baking Powder Company.....	24,637	May 1	67	673
Flour. Wheat.....	Daisy Roller Mill Company.....	25,161	Aug. 21	68	1019
Flour. Wheat.....	J. C. Daniels & Co.....	24,000	Jan. 9	66	310
Flour. Wheat.....	S. S. Drybread.....	25,365	Oct. 16	69	366
Flour. Wheat.....	Duluth Imperial Mill Company.....	25,516	Nov. 13	69	943
Flour. Wheat.....	Duryea, Watts & Company.....	24,082	Jan. 23	66	647
Flour. Wheat.....	Empire Mill Company.....	24,129	Jan. 30	66	842
Flour. Wheat.....	Everett, Anghenbaugh & Co.....	24,180	Feb. 6	66	1002
Flour. Wheat.....	Everett, Anghenbaugh & Co.....	25,127	Aug. 14	68	910

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Title.	Name.	No.	Date.	Official Gazette.	
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Flour. Wheat.	S. Green	24,552	Apr. 17	67	398
Flour. Wheat.	S. Green	24,746	May 22	67	1062
Flour. Wheat.	S. Green	24,747	May 22	67	1062
Flour. Wheat.	S. Green	24,748	May 22	67	1062
Flour. Wheat.	S. Green	24,749	May 22	67	1062
Flour. Wheat.	S. Green	25,162	Aug. 21	68	1019
Flour. Wheat.	W. Hower	25,546	Nov. 20	69	1066
Flour. Wheat.	Hood County Milling Company	25,045	July 24	68	530
Flour. Wheat.	G. S. Jewell	25,185	Aug. 28	68	1141
Flour. Wheat.	G. S. Jewell	25,186	Aug. 28	68	1141
Flour. Wheat.	G. S. Jewell	25,187	Aug. 28	68	1141
Flour. Wheat.	F. S. Johnson & Co.	24,306	Mar. 6	66	1590
Flour. Wheat.	W. Johnston	24,861	June 12	67	1445
Flour. Wheat.	Kunhardt & Co.	24,638	May 1	67	673
Flour. Wheat.	Kunhardt & Co.	24,860	June 12	67	1445
Flour. Wheat.	Kunhardt & Co.	24,890	June 19	67	1528
Flour. Wheat.	Kunhardt & Co.	25,518	Nov. 13	69	943
Flour. Wheat.	La Grange Mills	24,001	Jan. 9	66	310
Flour. Wheat.	La Grange Mills	24,002	Jan. 9	66	310
Flour. Wheat.	La Grange Mills	24,003	Jan. 9	66	310
Flour. Wheat.	La Grange Mills	24,004	Jan. 9	66	310
Flour. Wheat.	A. Lindsay	25,163	Aug. 21	68	1019
Flour. Wheat.	J. M. Mans	24,063	Jan. 16	66	454
Flour. Wheat.	M. and C. D. Miller	25,544	Nov. 20	69	1066
Flour. Wheat.	M. and C. D. Miller	25,545	Nov. 20	69	1066
Flour. Wheat.	Minkota Milling Company	24,582	Apr. 24	67	525
Flour. Wheat.	Minneapolis Trust Company	23,975	Jan. 2	66	169
Flour. Wheat.	Noel Mill Company	25,325	Oct. 9	69	240
Flour. Wheat.	Northwestern Consolidated Milling Company.	24,064	Jan. 16	66	454
Flour. Wheat.	Northwestern Consolidated Milling Company.	24,065	Jan. 16	66	454
Flour. Wheat.	Northwestern Consolidated Milling Company.	24,389	Mar. 20	66	1891
Flour. Wheat.	Norton & Co.	25,286	Oct. 2	69	117
Flour. Wheat.	Norton & Co.	25,366	Oct. 16	69	366
Flour. Wheat.	Pindell Bros. & Co.	24,252	Feb. 26	66	1304
Flour. Wheat.	Robbins & Baltzel	25,046	July 24	68	530
Flour. Wheat.	A. F. Roberts & Co.	24,583	Apr. 24	67	525
Flour. Wheat.	A. F. Roberts & Co.	24,996	July 10	68	278
Flour. Wheat.	A. M. Seixax	24,793	May 29	67	1188
Flour. Wheat.	A. M. Seixax	24,794	May 29	67	1188
Flour. Wheat.	Sparks Milling Company.	24,891	June 19	67	1568
Flour. Wheat.	D. Stott	25,517	Nov. 13	69	943
Flour. Wheat.	Thompson Milling Company	24,553	Apr. 17	67	398
Flour. Wheat.	Washburn, Crosby Company	25,219	Sept. 11	68	1386
Flour. Wheat.	Washburn, Crosby Company	25,367	Oct. 16	69	366
Flour. Wheat.	Washburn, Crosby Company	25,521	Nov. 13	69	943
Flour. Wheat.	Whitney & Wilson	25,188	Aug. 28	68	1141
Flour. Wheat.	Whitney & Wilson	25,523	Nov. 13	69	943
Fly-paper	O. & W. Thumb Company	25,660	Dec. 11	69	1503
Food for poultry and birds.	O. & W. Thumb Company	25,511	Nov. 13	69	942
Food prepared from sterilized milk and other ingredients.	Y. T. Matzoon Co.	25,255	Sept. 18	68	1517
Fermented milk					
Food products. Cereal	Minkota Milling Company	25,513	Nov. 13	69	942
Food products. Certain named	R. C. Williams & Company	24,892	June 19	67	1568
Food stuffing	Mason & Co.	25,476	Nov. 6	69	788
Food. Wheaten breakfast	Eli Pettijohn Cereal Company	24,974	July 3	68	141
Foods for children and invalids. Prepared	Imperial Granum Company	23,971	Jan. 2	66	168
Footwear. Felt	W. H. Davis & Co.	25,486	Nov. 13	69	940
Fruits. California	Claremont California Fruit Growers' Association.	24,176	Feb. 6	66	1002
Fruits. Dried	L. Rosenstein	24,175	Feb. 6	66	1001
Fruits. Dried	L. Rosenstein	25,530	Nov. 13	69	944
Fruits. Dried and preserved	L. Rosenstein	24,578	Apr. 24	67	525
Furnishing and fabrics. Certain named personal	Perrin Frères & Cie.	25,446	Nov. 6	69	785
Furniture consisting of beds, bureaus, buffets, chiffoniers, &c.	D. Froehlich	23,952	Jan. 2	66	167
Furniture-polish	M. J. Waldron	25,212	Sept. 4	68	1272
Game-boards used in connection with a series of numbers	W. Hoffman	24,158	Feb. 6	66	1000
Game. Card	J. McLoughlin	25,662	Dec. 11	69	1504
Garments. Men's and boys'	Guterman Brothers	25,622	Dec. 11	69	1500
Garters, hose-supporters, and sleeve-holders	Silvermann & Co.	24,488	Apr. 10	67	267
Gelatine	M. Michaelis & Sons	21,889	June 19	67	1567
Germinicides, deodorizers, and disinfectants	C. Perry	25,454	Nov. 6	69	786
Gin	Corning & Company	24,383	Mar. 20	66	1990
Ginghams	J. A. Hearn & Son	24,567	Apr. 24	67	524
Glass. Decorative	Tiffany Glass and Decorating Company.	25,512	Nov. 13	69	942
Glass. Plain, ground, or chipped sheet	Chambers Glass Company	24,559	Apr. 17	63	399
Glass. Plain, ground, or chipped sheet	Chambers Glass Company	24,560	Apr. 17	67	399
Glass. Plain, ground, or chipped sheet	Chambers Glass Company	24,561	Apr. 17	67	399
Glass. Plain or ground sheet	Chambers Glass Company	24,558	Apr. 17	67	399
Glass tableware. Hollow	Wolf & Gross	25,351	Oct. 16	69	365
Glass tubes	Gilliard, P. Menne & Cartier	24,029	Jan. 9	66	313
Glassware. Cut	C. Dorkfinger & Sons	25,350	Oct. 16	69	365
Gloves	Perrin Frères & Cie.	25,199	Sept. 4	68	1271
Gloves and fabric and woolen gloves, cuffs, and mittens.	Fownes Brothers & Co.	25,554	Nov. 27	69	1206
Leather					
Gloves and mittens	Saranac Glove Company	25,408	Oct. 30	69	636
Gloves and mittens	Taylor, Son & Co.	25,562	Dec. 4	69	1356
Gloves. Kid	P. Centemeri & Co.	24,161	Feb. 6	66	1000
Gloves. Kid	Houston & Henderson	25,620	Dec. 11	69	1500
Glove	J. A. Just	25,073	July 31	68	673

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Title.	Name.	No.	Date.	
Gold cure for opium, whisky, and tobacco habits and nervous diseases.	Leslie E. Keeley Company	24,464	Apr. 3	6.
Goods and linings. Certain named dress	Catlin & Co.	25,261	Sept. 25	68
Goods. Certain named dress.	Abraham & Straus	24,211	Feb. 13	66
Goods. Certain named dress.	C. E. Rycroft	24,037	Jan. 16	66
Goods containing wool, worsted, or hair. Piece	B. Priestley & Co.	23,962	Jan. 2	66
Goods for men. Certain named furnishing.	Oppenheimer, Straus & Co.	24,207	Feb. 13	66
Goods in which silk predominates. Piece	B. Priestley & Co.	23,963	Jan. 2	66
Goods in which silk predominates. Piece	B. Priestley & Co.	23,991	Jan. 2	66
Grain products. Milled.	Mauston Milling Company	24,263	Feb. 20	66
Grapes.	L. M. Lyon	25,184	Aug. 28	68
Grease and machine-oils. Axle.	Searle & Son	24,010	Jan. 9	66
Grease and oils. Animal.	Emil Winter Company	24,928	June 26	67
Grease. Axle.	Higsen Brothers	24,196	Feb. 6	66
Grease. Lubricating.	Central Oil and Supply Company	24,401	Mar. 20	66
Grinding feed-mills.	J. C. Woodcock	24,241	Feb. 13	66
Gum. Chewing.	W. R. Betham	23,978	Jan. 2	66
Gum. Chewing.	Chattanooga Medicine Company	25,284	Oct. 2	69
Gum. Chewing.	J. M. Clark & Company	25,354	Oct. 16	69
Gum. Chewing.	Cleveland Gum Company	24,666	May 8	67
Gum. Chewing.	Faultless Chemical Company	24,249	Feb. 20	66
Gum. Chewing.	Faultless Chemical Company	24,345	Mar. 13	66
Gum. Chewing.	Faultless Chemical Company	24,390	Mar. 20	66
Gum. Chewing.	Faultless Chemical Company	24,741	May 22	67
Gum. Chewing.	J. Hungerford Smith Company	24,066	Jan. 16	66
Gum. Chewing.	A. F. Levi	24,888	June 10	67
Gum. Chewing.	A. F. Levi	25,105	Aug. 7	68
Gum. Chewing.	D. Ragland	25,223	Sept. 11	68
Gum. Chewing.	U. S. Novelty Company	24,995	July 10	68
Hair and scalp. Preparation for the	L. D. Newman	25,022	July 17	68
Hair-dressing.	Sylvan Toilet Co.	24,184	Feb. 6	66
Hair-grower.	L. C. Olds	24,754	May 22	67
Hair. Preparation for removing	J. Mellinger	24,396	Mar. 20	66
Hair. Preparation for the	Lyon Manufacturing Co.	24,591	Apr. 24	67
Hair-restoratives.	F. E. Bostwick	24,791	May 29	67
Hair tonic	L. P. Federmeier	23,979	Jan. 2	66
Hair tonic	N. A. C. Folke	24,098	Jan. 23	66
Hair wash	S. Lachance	24,099	Jan. 23	66
Hams.	Anglo-American Provision Company.	24,669	May 8	67
Hams.	Anglo-American Provision Company.	24,670	May 8	67
Hams.	Anglo-American Provision Company.	24,671	May 8	67
Hams.	Anglo-American Provision Company.	24,672	May 8	67
Hams and sausages.	Anglo-American Provision Company.	24,673	May 8	67
Hams and side meats	Anglo-American Provision Company.	24,752	May 22	67
Hams, bacon, and lard	Swift Provision Co.	25,597	Dec. 4	69
Hams, bacon, and lard	Swift Provision Co.	25,598	Dec. 4	69
Hams, bacon, and smoked meats, lard, and oils.	N. Morris & Co.	24,336	Mar. 13	66
Hams, bacon, shoulders, and all smoked hog, beef, and mutton products.	Jacob Dold Packing Company	24,299	Mar. 6	66
Hams, beef, and tongues. Cured	J. H. Michener & Co.	24,216	Feb. 13	66
Hams, beef, bacon, and tongues. Cured	J. H. Michener & Co.	24,300	Mar. 6	66
Hardware. Certain named	Marshall-Wells Hardware Company.	25,305	Oct. 2	69
Hardware. Saddlery	Wiener & Co.	21,326	Mar. 6	66
Harness-snaps	J. C. Covart	24,879	June 12	67
Harvesting machinery for hay and grain	Walter A. Wood Harvester Company.	25,698	Dec. 18	69
Hats	Blaylock and Blynn	24,370	Mar. 20	66
Hats and bonnets and trimmings thereon. Ladies'	M. Furrer	24,487	Apr. 10	67
Hats and caps. Men's	J. Marshall	24,808	June 5	67
Hats and caps. Men's	J. Marshall	24,809	June 5	67
Hats for men and boys. Soft and stiff fur-felt	F. Schoble & Co.	25,566	Dec. 4	69
Hats. Straw	M. Kurzman & Son	24,837	June 12	67
Heaters, furnaces, ranges, and stoves, and parts of and appliances for the same.	E. C. Fitz	21,937	June 26	67
Herb tea	F. J. Trandt	25,378	Oct. 16	69
Hog and beef products, including lard and tallow	Anglo-American Provision Company.	24,457	Apr. 3	67
Hog and beef products, including lard and tallow	Anglo-American Provision Company.	24,458	Apr. 3	67
Hog, beef, and mutton products. Smoked	Jacob Dold Packing Company	24,267	Feb. 20	66
Hog products, including hams	Anglo-American Provision Company.	25,029	July 17	68
Hog products, including lard.	Anglo-American Provision Company.	25,043	July 24	68
Hooks and eyes	American Supply Co.	24,118	Jan. 30	66
Hooks and eyes	Francis Manufacturing Company	25,040	July 24	68
Hoop-lock-cutting machines	W. K. Morison	25,004	July 10	68
Hose, belting, and packing.	Bowers Rubber Company	23,956	Jan. 2	66
Hose, belting, and packing.	Bowers Rubber Company	23,957	Jan. 2	66
Hose, belting, and packing.	Bowers Rubber Company	23,958	Jan. 2	66
Hose, belting, and packing.	Bowers Rubber Company	23,959	Jan. 2	66
Hose, belting, and packing.	Bowers Rubber Company	23,960	Jan. 2	66
Hose, belting, and packing.	Bowers Rubber Company	24,122	Jan. 30	66
Hose, belting, and packing.	Bowers Rubber Company	24,123	Jan. 30	66
Hose-nozzles	Eaton, Cole & Burnham Company	25,695	Dec. 18	69
Hosiery	Barnard, Sumner & Putnam Company.	24,568	Apr. 24	67
Hosiery	Taylor, Son & Co.	25,561	Dec. 4	69
Hosiery	Wear & Boogher Dry Goods Company.	25,442	Nov. 6	69
Hosiery and underwear	Lowell Hosiery Company.	24,806	June 5	67
Hosiery. Cashmere	H. Schopper	25,338	Oct. 16	69
House-furnishings. Useful and ornamental.	J. P. McHugh	25,737	Dec. 25	69
Hypophosphite-of-calcium compound	A. Loring	24,398	Mar. 20	66
Incubators and brooders	Reliable Incubator and Brooder Company.	24,983	July 3	68
Ingots and bars of metal	W. T. Garratt & Company.	24,981	July 3	68
Ink-erasing fluid	H. H. Collins	24,601	Apr. 24	67

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Ink, mucilage, and sealing-wax	Pomeroy Brothers	24,069	Jan. 16	66	455
Ink. Printing	Queen City Printing Ink Company	24,402	Mar. 20	66	1892
Ink-ribbons	Thorp & Martin Company	25,440	Nov. 6	69	785
Insect and vermin exterminators	E. R. Marshall	25,136	Aug. 14	68	911
Insect-powders	A. Thurmayr	24,586	Apr. 24	67	525
Insecticide	A. Lippincott	25,077	July 31	68	653
Insecticide	Winkelmann & Brown Drug Company.	25,059	July 24	68	532
Insecticides	O. H. Jadwin	24,475	Apr. 3	67	137
Insulators. Electrical	W. T. C. Macallen Company	25,088	July 31	68	654
Iron and cast-steel and articles manufactured therefrom.	Jonas & Colver	24,432	Mar. 27	66	2050
Wrought-					
Iron. Bar.	Shadbolt & Boyd Iron Company	25,697	Dec. 18	69	1640
Iron derivatives of albumen	C. F. Boehringer & Soehne	24,228	Feb. 13	66	1165
Iron ore and pig-iron	T. Sharp	24,079	Jan. 16	66	456
Iron, steel, and lead manufactures. Certain named	Rylands Brothers	25,436	Oct. 30	69	638
Isinglass of a gelatinous nature	Howe & French	24,492	Apr. 10	67	268
Isinglass of a gelatinous nature	Howe & French	24,493	Apr. 10	67	268
Jelly compounds for table relishes	Stern & Saalberg	24,218	Feb. 13	66	1164
Jewelry having artificial-diamond settings	Samuels Bros.	24,159	Feb. 6	66	1000
Jewelry ornamented with precious stones, diamonds excepted.	H. R. Benedict	24,524	Apr. 17	67	396
Kid. Finished	J. M. Fenlin	25,450	Nov. 6	69	786
Knit underwear	Hay & Todd Manufacturing Co.	25,282	Oct. 2	69	117
Knit underwear	Winzer & Wecker	24,569	Apr. 24	67	524
Knit underwear, gloves, hosiery, and neckwear	J. J. Bailly & Co.	24,616	May 1	67	672
Knives. Pocket	Schmachtenberg Bros.	25,037	July 21	68	529
Knives, razors, and scissors.	F. A. Koch & Co.	25,349	Oct. 16	69	365
Knives, razors, table-cutlery, and scissors. Pocket	J. Hibbert	25,343	Oct. 16	69	365
Knives, scissors, and razors. Pocket	A. Kastor & Bros.	25,192	Aug. 28	68	1142
Laces and braid. Shoe	H. Fawcett	24,120	Jan. 30	66	841
Laces and webs for boots and shoes	Laing, Son & Harrah	24,945	July 3	68	138
Lactyl derivatives of paraphenetidin	C. F. Boehringer & Soehne	24,643	May 1	67	674
Lamp-chimneys	Jones, McDuffee & Stratton	24,425	Mar. 27	66	2049
Lamp-chimneys	W. E. Mayo	24,167	Feb. 6	66	1001
Lamp. Flash	A. Hemsley	24,907	June 19	67	1570
Lamps	Hinrichs & Co.	24,166	Feb. 6	66	1001
Lamps	Hinrichs & Co.	24,362	Mar. 13	66	1754
Lamps	Parker & Sanders	24,363	Mar. 13	66	1754
Lamps	Snell Cycle Fittings Company	24,238	Feb. 13	66	1166
Lamps. Bicycle	Snell Cycle Fittings Company	25,614	Dec. 11	69	1504
Lamps. Miners'	W. P. McMasters	25,478	Nov. 6	69	788
Lanterns. Bicycle	Bridgeport Brass Company	24,466	Apr. 10	67	267
Lard	Anglo-American Provision Company	24,554	Apr. 17	67	399
Lard	Anglo-American Provision Company	24,555	Apr. 17	62	399
Lard	Anglo-American Provision Company	24,556	Apr. 17	67	399
Lard	Anglo-American Provision Company	24,557	Apr. 17	67	399
Lard	Anglo-American Provision Company	24,584	Apr. 24	67	525
Lard	Anglo-American Provision Company	24,585	Apr. 24	67	525
Lard	Anglo-American Provision Company	24,751	May 22	67	1062
Lard	Fowler Brothers	25,556	Nov. 27	69	1206
Lard	A. Garin & Co.	25,166	Aug. 21	68	1020
Lard	Joseph R. Peebles' Sons Company	25,427	Oct. 30	69	637
Lard	Swift & Company	24,512	Apr. 10	67	269
Lard	Swift & Company	24,513	Apr. 10	67	269
Lard	F. W. Wagener & Co.	25,426	Oct. 30	69	637
Lard and compound lard	George Fowler, Son & Company	25,324	Oct. 9	69	239
Lard compound	Anglo-American Provision Company	24,820	June 5	67	1327
Lard. Pork	Imperial Packing Company	24,978	July 3	68	142
Lard. Refined and leaf	G. C. Napheys & Son	25,471	Nov. 6	69	787
Lard substitutes	N. Morris & Co.	24,253	Feb. 20	66	1305
Laxative	F. L. Taft Medical Co	24,924	June 26	67	1717
Lead. White	H. A. Carroll	25,432	Oct. 30	69	638
Leather	White Bros. & Co.	24,412	Mar. 27	66	2048
Leather. Artificial	Shawmut Manufacturing Company	24,165	Feb. 6	66	1000
Leather beautifying and preserving preparation	E. H. Brown	24,518	Apr. 10	67	270
Leather belting and lace-leather	C. A. Schieren & Co.	24,707	May 15	67	923
Leather cleaning and polishing preparation	E. H. Brown	24,517	Apr. 10	67	270
Leather-dressing	Jas. S. Mason Company	24,602	Apr. 24	67	527
Leather-dressing	Jas. S. Mason Company	25,563	Dec. 4	69	1358
Leather-dressing	Restorff & Bettmann	25,398	Oct. 23	69	506
Leather-dressing	J. C. Ryan, Jr.	25,399	Oct. 23	69	506
Leather dressing, blacking, and polish	J. S. Adriance	24,359	Mar. 13	66	1754
Leather. Dressing for russet	Jas. S. Mason Company	25,499	Nov. 13	69	941
Leather for wearing-apparel and belting and valve leather	J. N. Eisendrath	24,164	Feb. 6	66	1000
Leather goods	J. B. Brooks & Co.	24,657	May 8	67	807
Leather. Harness and saddlery	W. W. Mooney & Sons	24,708	May 15	67	923
Leather. Harness and saddlery	W. W. Mooney & Sons	24,946	July 3	68	138
Leather. Harness and saddlery	W. W. Mooney & Sons	24,947	July 3	68	139
Leather. Oak-tanned harness	J. G. Hoffman & Sons Co.	24,045	Jan. 16	66	452
Leather. Preparation for cleaning and polishing	E. H. Brown	25,276	Sept. 25	68	1626
Leather. Preparation for preserving and beautifying	E. H. Brown	25,275	Sept. 25	68	1625
Licorice lozenges	Young & Smylie	24,250	Feb. 20	66	1304
Licorice roots, sticks, paste, and pellets	Carénon & Tur	25,421	Oct. 30	69	637
Lime for disinfecting and whitewashing purposes	W. H. Phillips	24,419	Mar. 27	66	2049
Liniment	G. S. Curtis	25,102	Aug. 7	68	767
Liniment	W. C. Johnson	24,537	Apr. 17	67	397
Liniment	Lyon Manufacturing Co	24,592	Apr. 24	67	526
Liniment	Van Tassel & Tobey	25,023	July 17	68	410
Liniment	A. W. Wallace	24,691	May 8	67	810
Liniment for external and internal use	J. M. Yost, C. F. Green, and F. C. Houck.	24,280	Feb. 27	66	1446
Liniment for horses and other animals	G. W. Pomroy, Jr.	25,290	Oct. 2	69	118
Liniment for internal and external use	E. F. Kessler	24,790	May 29	67	1187

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Liniment for internal and external use	O. M. T. Samuels & Co.	25,249	Sept. 13	68	1516
Liniments	M. Queenan	24,926	June 26	67	1717
Liniments	E. F. Watkins	24,474	Apr. 3	67	137
Liniments, ointments, and remedies for dyspepsia, chills, and lung troubles.	F. W. Peck & Co.	24,472	Apr. 3	67	137
Liniments, ointments, dentine, suppositories, sirups, tonics, and nervines.	W. R. Varney	25,176	Aug. 28	68	1139
Liniments, worm-powders, and elixirs for diarrhea.	F. E. Carter & C. S. Jones	24,471	Apr. 3	67	137
Lithographing purposes. Zinc plates for	Phoenix Litho Plate Company	24,934	June 26	67	1719
Lotion for beautifying the skin	L. V. Young	25,248	Sept. 18	68	1516
Lotions to protect animals from flies and the like.	A. Adler	25,273	Sept. 25	68	1625
Lotions. Toilet	S. Lachance	21,185	Feb. 6	66	1003
Lozenges known as cough drops	Red Star Drop Co.	25,018	July 17	68	410
Lozenges or tablets for dyspepsia and disorders of digestion.	F. A. Stuart	25,501	Nov. 13	69	941
Lubricant for bicycle and other chains	L. N. Swift	25,227	Sept. 11	68	1387
Lumber or composition material. Artificial	C. A. Smith	25,383	Oct. 16	69	368
Lye.	W. H. Priesmeyer	24,971	July 3	68	141
Lye. Powdered	G. T. Lewis	24,681	May 8	67	809
Lye. Powdered	G. T. Lewis	24,682	May 8	67	809
Machines, implements, and tools. Certain named	Shaw Brothers	25,194	Aug. 28	68	1142
Machines, tools, and implements and parts thereof, consisting wholly or in part of forgings.	Billings & Spencer Company	24,771	May 22	67	1064
Machinists' tools	Collins Company	24,433	Mar. 27	66	2050
Machinists' tools	Collins Company	24,434	Mar. 27	66	2050
Magnesia. Preparation of	Charles H. Phillips Chemical Company.	24,049	Jan. 16	66	453
Matches	Alsing & Company	25,120	Aug. 14	68	910
Matches	Alsing & Company	25,121	Aug. 14	68	910
Matches	Alsing & Company	25,122	Aug. 14	68	910
Matches	Alsing & Company	25,123	Aug. 14	68	910
Matches	Alsing & Company	25,359	Oct. 16	69	366
Matches	Alsing & Company	25,360	Oct. 16	69	366
Matches	Alsing & Company	25,361	Oct. 16	69	366
Matches	Alsing & Company	25,362	Oct. 16	69	366
Matches	Alsing & Company	25,363	Oct. 16	69	366
Matches	Oshkosh Match Works	23,995	Jan. 2	66	170
Matches	L. Rosenstein	24,683	May 8	67	809
Matches	L. Rosenstein	24,920	June 26	67	1717
Matches. Friction	Trummer & Co.	24,103	Jan. 23	66	649
Matches. Wooden and paper	American Safety-Head Match Company.	24,874	June 12	67	1446
Mattresses. Air	Metropolitan Air Goods Company ..	24,033	Jan. 9	66	313
Meat juices and iron. Prepared	Fredrick Stearns & Company ..	23,992	Jan. 2	66	1707
Meat-softener in the form of a powder	A. E. Baird	24,463	Apr. 3	67	136
Meats and lard. Cured	Minnesota Packing and Provision Company.	24,893	June 19	67	1568
Meats and lard. Cured	Minnesota Packing and Provision Company.	25,323	Oct. 9	69	239
Meats. Certain named preserved	S. Green	25,128	Aug. 14	68	910
Meats. Cured	Joseph R. Peebles' Sons Company ..	25,425	Oct. 30	69	637
Medals	G. B. Soley	25,414	Oct. 30	69	636
Medals	G. B. Soley	25,415	Oct. 30	69	636
Medals	G. B. Soley	25,416	Oct. 30	69	636
Medical and surgical bandages, appliances, and other apparatuses.	J. A. Meara	25,174	Aug. 28	68	1139
Medical compound for purifying the blood, an alterative, and tonic.	Mara Nova Tonic Co.	24,585	Apr. 24	67	526
Medical compound for the cure of neuralgic and rheumatic complaints.	Dahl & Co.	24,357	Mar. 13	66	1754
Medical compound for use as a tonic	Tilden Company	23,922	Jan. 2	66	169
Medical compounds. Certain named	S. Morris	24,017	Jan. 9	66	312
Medical compounds. Certain named	H. L. Partridge	24,497	Apr. 10	67	268
Medical preparations consisting of liquids, pills, tablets, plasters, lotions, salves, and dentifrice. Line of	F. A. Price	24,922	June 26	67	1717
Medicated distilled water	Kalish Pharmacy	24,499	Apr. 10	67	268
Medicated lozenges and tablets	Hance Bros. & White	25,178	Aug. 28	68	1140
Medicated soaps and plasters and remedies for diseases of the blood, skin, and nerves.	E. F. Hanson	24,631	May 1	67	673
Medicated wine	W. C. Bevan & Co.	24,625	May 1	67	672
Medicinal agents for use in nervous diseases as a febrifuge and soporific.	Firm of E. Merck	24,093	Jan. 23	66	648
Medicinal agents for use in urinary diseases	Firm of E. Merck	24,094	Jan. 23	66	648
Medicinal and chemical compounds. Certain named	C. F. Boehringer & Söhne	24,869	June 12	67	1445
Medicinal and surgical plasters, appliances, and dressings.	Seabury & Johnson	25,457	Nov. 6	69	786
Medicinal beverages. Carbonated tonic	G. D. Dows & Company	24,898	June 19	67	1568
Medicinal compound for external and internal use. Liquid	G. S. Cheney	24,234	Feb. 13	66	1165
Medicinal compound for the prevention and cure of diphtheria.	A. W. De Jean	24,498	Apr. 10	67	268
Medicinal effervescent salt	Haan & Schröder	25,016	July 17	68	410
Medicinal liquid food	Pre Digested Food Company	24,994	July 10	68	277
Medicinal lotions	J. P. Campbell	25,134	Aug. 14	68	911
Medicinal lozenges or tablets	California Eucalyptos Co	24,789	May 29	67	1187
Medicinal plasters	W. H. Gannett	24,047	Jan. 16	66	453
Medicinal plasters	W. H. Gannett	24,148	Jan. 30	66	843
Medicinal plasters for rheumatism	C. Deephouse	25,496	Nov. 13	69	911
Medicinal powder for the cure of catarrh.	W. J. Winsett	25,133	Aug. 14	68	941
Medicinal preparation. Certain named	Goodman & Macatee	25,025	July 17	68	411
Medicinal preparation for fowls	Southern Specialty Co	25,182	Aug. 28	68	1140
Medicinal preparation for liver diseases	J. H. Zeilin & Company	24,258	Feb. 20	66	1305
Medicinal preparation for the cure of coughs, consumption, summer complaint, and kidney diseases.	Fisher & Fairbanks	24,899	June 19	67	1369
Medicinal preparation to increase the flow of human milk.	Nutrolactis Company	25,312	Oct. 9	69	238
Medicinal preparations for the hair and scalp	Excelsior Manufacturing Company ..	24,897	June 19	67	1568
Medicinal preparations in the nature of tonic phosphates.	G. Bruno	24,399	Mar. 20	66	1892

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Medicinal purposes. Chemical compound for	New York and London Alkaloid and Chemical Company.	24,317	Mar. 6	66	1591
Medicinal salt for use internally	P. J. Latz	25,396	Oct. 23	69	506
Medicinal strengthening-plaster	Johnson & Johnson	24,530	June 5	67	1328
Medicinal strengthening-plasters	Johnson & Johnson	24,902	June 19	67	1569
Medicinal tablets	Antikamnia Chemical Company	24,723	May 15	67	925
Medicinal tablets	Antikamnia Chemical Company	25,688	Dec. 18	69	1639
Medicinal tablets	J. M. Crampton	24,724	May 15	67	925
Medicinal tablets composed of antikamnia and codeine	Antikamnia Chemical Company	25,099	Aug. 7	68	767
Medicinal tablets composed of antikamnia and quinine	Antikamnia Chemical Company	25,097	Aug. 7	68	767
Medicinal tablets composed of antikamnia and salol	Antikamnia Chemical Company	25,098	Aug. 7	68	767
Medicinal tonic preparation	Billings, Clapp & Co	24,416	Mar. 27	66	2049
Medicinal vegetable compounds for blood, liver, and kidney diseases.	S. J. and G. D. Brinkerhoff	25,232	Sept. 11	68	1387
Medicinal wines	F. Comar et Fils & Cie.	24,536	Apr. 17	67	397
Medicine and tonic. Nerve	Magic Medicine Co	24,868	June 12	67	1445
Medicine. Blood, liver, kidney, and stomach	F. A. Stutz	23,928	Jan. 2	66	170
Medicine. Certain named	H. M. Deer	25,504	Nov. 13	69	942
Medicine. Certain named	E. M. Johnson & Co	24,194	Feb. 6	66	1003
Medicine. Certain named	E. M. Johnson & Co	24,195	Feb. 6	66	1003
Medicine. Certain named	E. M. Johnson & Co	24,197	Feb. 6	66	1003
Medicine for certain named diseases	P. Petree & Co.	24,651	May 1	67	674
Medicine for certain named diseases	A. A. Rhuland	24,232	Feb. 13	66	1165
Medicine for choleric or diarrhea	J. W. Carson	24,199	Feb. 6	66	1004
Medicine for corns and bunions	C. H. Van Wie	24,232	June 5	67	1328
Medicine for diseases of the bowels and stomach	H. Woodcock	24,496	Apr. 10	67	268
Medicine for malarial diseases. Liquid	J. H. Neagle	25,158	Aug. 21	68	1019
Medicine for the cure of catarrh	Root-Tea-Na Herb Co.	24,630	May 1	67	673
Medicine for the cure of dyspepsia	T. Merritt	24,857	July 3	68	140
Medicine for the cure of eczema	G. W. Rankin	24,235	Feb. 13	66	1165
Medicine for the cure of headache and neuralgia	S. H. Scallin	25,101	Aug. 7	68	767
Medicine for the cure of neuralgia, grip, and fever	Pheno-Bromate Chemical Co	24,468	Apr. 3	67	137
Medicine for the cure of neuralgia, rheumatism, and kindred diseases.	L. L. Baker	24,989	July 10	68	277
Medicine for the cure of the tobacco habit	Root-Tea-Na Herb Co.	24,725	May 15	67	925
Medicine for troubles arising from a torpid liver	J. R. Miles	25,233	Sept. 11	68	1388
Medicine. Laxative	A. & K. Chemical Co.	25,054	July 24	68	531
Medicine. Named	Sharp & Dohme	25,250	Sept. 18	68	1517
Medicine or cure. Corn	Harvey Manufacturing Co.	24,993	July 10	68	277
Medicine. Stomachic and carminative	E. Dort	24,827	June 5	67	1328
Medicine. Throat	B. F. Allen Company	25,230	Sept. 11	68	1387
Medicine to neutralize the effect of microbes on the physical system. Fluid	Goodman & Macatee	24,540	Apr. 17	67	397
Medicine to purify the blood	W. A. Lovering	24,145	Jan. 30	66	843
Medicine. Tonic	Anheuser-Busch Brewing Association.	24,641	May 1	67	674
Medicine. Tonic	J. N. Barker	24,096	Jan. 23	66	648
Medicine used as an injection. Proprietary	H. F. Bader	24,193	Feb. 6	66	1003
Medicines and flavoring extracts. Certain named	A. B. Seelye	25,108	Aug. 7	68	768
Medicines. Certain named	Red Seal Remedy Company	25,502	Nov. 13	69	941
Medicines for venereal diseases	J. F. Gilman	24,727	May 15	67	925
Medicines, including embrocations, ointments, and tablets. Certain named proprietary	Wetmore Worthley & Co.	25,175	Aug. 28	68	1139
Medicines. Line of proprietary	A. F. Sawhill	23,984	Jan. 2	66	169
Medicines, toilet and manicure articles. Certain designated.	Prentice & Evenson	25,460	Nov. 6	69	796
Metal and glass. Cleaning and polishing compound for	C. H. Starin	25,075	July 31	68	653
Metal articles. Certain named	T. and J. M. Carlyle	25,508	Nov. 13	69	942
Metal lubricators	O. Moenich & Co	24,361	Mar. 13	66	1754
Metal-polish	A. Foote	25,076	July 31	68	653
Metal-polish	Harvey Chemical Co.	24,843	June 12	67	1444
Metal-polish	Harvey Chemical Co.	24,968	July 3	68	147
Metals, alloys, and journal-bearings. Antifriction	Magnolia Metal Company	25,168	Aug. 21	68	1020
Metals, alloys, and journal-bearings. Antifriction	Magnolia Metal Company	25,169	Aug. 21	68	1020
Milk	Orange County Milk Association	24,172	Feb. 6	66	1001
Milk. Condensed	Orange County Milk Association	25,322	Oct. 9	69	239
Milk, condensed and plain, evaporated cream, butter, and cheese.	New York Condensed Milk Company.	24,819	June 5	67	1327
Milk. Condensed or preserved	Orange County Milk Association	24,219	Feb. 13	66	1164
Milk, cream, butter, and cheese	New York Condensed Milk Company.	25,028	July 17	68	411
Milk for infants and invalids	A. F. Rieser	24,674	May 8	67	808
Millinery, silk and cotton dress goods, hostery, bleached linens, wool fabrics, and muslins.	S. Francisco	25,368	Oct. 16	69	366
Mineral-spring water	J. Lichtenstein & Sons	25,170	Aug. 28	68	1139
Mineral water	Lenape Springs Co.	24,312	Mar. 6	66	1591
Mineral water. Artificial	B. F. Cohen	24,987	July 10	68	277
Mineral water. Artificial	White Rock Mineral Spring Company.	24,134	Jan. 30	66	842
Mineral water, ginger champagne, and ginger ale. Natural.	Manitow Mineral Water Company ..	24,222	Feb. 13	66	1164
Mineral water. Natural	J. P. Forbes & Co	24,506	Apr. 10	67	269
Mineral water. Natural	M. V. Saunders	25,298	Oct. 2	69	119
Mineral water. Natural	J. P. C. Schmit	24,450	Apr. 3	67	135
Mineral water. Natural	Stafford Mineral Springs and Hotel Company.	24,281	Feb. 27	66	1446
Mineral water. Natural	Waukesha-Lithia Spring Company ..	24,531	Apr. 17	67	396
Mineral waters	Gerolsteiner Sprudel W. Castendyck.	24,530	Apr. 17	67	396
Mineral waters	M. Hirschler	24,415	Mar. 27	66	2048
Mineral waters and carbonated beverages	Sprudel Water Company	25,649	Dec. 11	69	1502
Molders' tools	F. A. Downer	24,612	Apr. 24	67	528
Music. Powder to facilitate the execution of	L. H. Gunnerman	25,301	Oct. 2	69	119
Musical instruments	M. Redgrave	24,611	Apr. 24	67	528
Mustard	C. Gulden	24,298	Mar. 6	66	1589
Mustard and mustard products	J. & J. Colman	25,731	Dec. 25	69	1770

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Nailing machines. Box.....	W. S. Doig.....	24,520	Apr. 10	67	270
Nails.....	C. F. Baker & Co.....	25,477	Nov. 6	69	788
Nervine, tonic, restorative, and reparative remedy.....	J. H. Winkelmann.....	24,629	May 1	67	673
Newspapers and periodicals.....	Orange Judd Company.....	25,439	Nov. 6	69	785
Night-robes.....	E. Rosenfeld & Co.....	24,202	Feb. 13	66	1163
Noodles. Egg.....	C. F. Mueller & Co.....	24,454	Apr. 3	67	135
Oats. Rolled.....	W. H. Fruen.....	25,110	Aug. 7	68	768
Oats. Rolled.....	W. H. Fruen.....	25,469	Nov. 6	69	787
Oats. Rolled.....	Stobie Cereal Mills.....	25,721	Dec. 25	69	1770
Oil and castor-oil combinations. Castor.....	M. H. Smith.....	25,458	Nov. 6	69	786
Oil and preparations thereof. Cod-liver.....	T. A. Slocum Company.....	24,688	May 8	67	809
Oil. Castor.....	M. Calm & Bro.....	24,475	Apr. 3	67	137
Oil-cloth. Floor.....	Macdonald-Hegele Manufacturing Company.....	25,491	Nov. 13	69	940
Oil-cloth. Floor.....	Macdonald-Hegele Manufacturing Company.....	25,492	Nov. 13	69	941
Oil. Cod-liver.....	M. Calm & Bro.....	24,349	Mar. 13	66	1753
Oil. Cod-liver.....	C. C. Kraemer Company.....	24,014	Jan. 9	66	311
Oil. Cylinder.....	Jno. S. Suedeker Company.....	24,967	July 3	68	141
Oil. Lubricating.....	Galena Oil Works.....	23,965	Jan. 2	66	168
Oil. Lubricating.....	Galena Oil Works.....	23,966	Jan. 2	66	168
Oil. Lubricating.....	Galena Oil Works.....	23,967	Jan. 2	66	168
Oil. Lubricating.....	Galena Oil Works.....	23,968	Jan. 2	66	168
Oil. Lubricating.....	A. W. Harris.....	24,719	May 15	67	924
Oil. Lubricating.....	A. W. Harris.....	24,904	June 19	67	1569
Oil. Lubricating.....	A. W. Harris.....	24,966	July 3	68	140
Oil. Lubricating.....	A. W. Harris.....	25,001	July 10	68	278
Oil shortening.....	George Fowler, Son & Company.....	25,263	Sept. 25	68	1624
Oil. Tasteless castor.....	Blair & Downey.....	25,539	Nov. 20	69	1065
Oil. Wool.....	Wool Oil Refining Company.....	25,401	Oct. 23	69	506
Oils and chemicals. Essential.....	Charles H. Phillips Chemical Company.....	24,395	Mar. 20	66	1891
Oils and greases. Illuminating and lubricating.....	Clarkson & Dallas.....	24,685	May 8	67	809
Oils and ointment. Hoof.....	C. F. Kissel.....	24,201	Feb. 6	66	1004
Oils. Cotton-seed, olive, and other food.....	W. H. Crossman & Bro.....	25,371	Oct. 16	69	367
Oils. Essential.....	H. G. Hotchkiss.....	23,964	Jan. 2	66	168
Oils for chronic, malignant, and lung diseases. Preparation of.....	Drs. Reynolds & Reynolds.....	24,015	Jan. 9	66	311
Oils for external use for veterinary purposes. Compound of lubricating.....	W. A. Lowe.....	24,264	June 12	67	1445
Oils. Lubricating.....	W. H. Crossman & Bro.....	25,297	Oct. 2	69	119
Oils. Lubricating.....	J. C. Curtin.....	25,277	Sept. 25	68	1626
Oils. Lubricating.....	F. J. Kühne.....	24,100	Jan. 23	66	648
Oils. Lubricating.....	Seneca Oil Works.....	24,604	Apr. 24	67	527
Oils, powders, and hair, nerve, and blood tonics. Facial.....	Madame Isébell's Toilet Manufacturing Co.....	24,965	July 3	68	140
Ointment.....	T. Guinean.....	24,693	May 8	67	810
Ointment. Antiseptic.....	Norwich Pharmacal Company.....	25,135	Aug. 14	68	911
Ointments.....	Dr. Kilmer & Co.....	25,493	Nov. 13	69	941
Opera-glasses.....	A. Lévy.....	24,526	Apr. 17	67	396
Oranges.....	Haight Fruit Co.....	24,973	July 3	68	141
Oranges.....	E. and W. P. Van Ness and S. H. Gaitskill.....	24,452	Apr. 3	67	135
Oranges, lemons, and walnuts.....	L. Contencin & Son.....	25,069	July 31	68	652
Oranges, lemons, tangerines, and grape-fruit.....	W. R. Hillyer.....	24,548	Apr. 17	67	398
Organs and pianos.....	Aeolian Organ and Music Company.....	24,728	May 15	67	925
Organs. Reed.....	Estey Organ Company.....	24,729	May 15	67	926
Overcoats.....	A. Benjamin & Co.....	24,371	Mar. 20	66	1859
Overcoats.....	A. Benjamin & Co.....	24,372	Mar. 20	66	1859
Overcoats.....	A. Benjamin & Co.....	24,373	Mar. 20	66	1859
Overcoats.....	A. Benjamin & Co.....	25,623	Dec. 11	69	1569
Overcoats.....	Byck Bros.....	25,339	Oct. 16	69	364
Oysters.....	J. L. Best.....	24,621	May 1	67	672
Oysters.....	Haas Brothers.....	24,182	Feb. 6	66	1002
Oysters. Raw and processed.....	J. H. Collison.....	24,008	Jan. 9	66	311
Packing, belting and hose.....	Bowers Rubber Company.....	23,961	Jan. 2	66	167
Packing for machinery.....	J. W. Peelle.....	25,061	July 24	68	532
Packing-rings. Rubber.....	Crescent Manufacturing Company.....	25,661	Dec. 11	69	1504
Packings, coverings, and other goods made wholly or partly from asbestos.....	New Jersey Asbestos Company.....	25,092	Aug. 7	68	766
Pain-eradicators, ointments, salves, liniments, and pink-eye, distemper, and colic cures.....	New Metzger Medicine Company.....	24,901	June 19	67	1569
Paint. Fireproof water.....	Martin Process Fire-Proofing Paint Company.....	25,658	Dec. 11	69	1503
Paint for ships and vessels.....	Tarr & Wonson.....	24,360	Mar. 13	66	1754
Paint or preparation for the cure of corns, warts, and similar growths.....	H. S. Moore.....	24,833	June 5	67	1328
Paints, colors, enamels, driers, varnish, and putty.....	C. H. Howell & Co.....	25,214	Sept. 4	68	1272
Paints for metals.....	B. Brosche & Co.....	25,382	Oct. 16	69	368
Paints, kerosene, rosin, turpentine, and lubricants. Coloring and finishing.....	Shaw Brothers.....	24,792	May 29	67	1187
Painters' size.....	A. Hastrup & Co.....	25,433	Oct. 30	69	638
Pantaloons.....	Rosenthal Brothers.....	24,203	Feb. 13	66	1163
Pants and overalls. Men's.....	Taylor, Son & Co.....	25,532	Nov. 20	69	1065
Paper.....	E. & H. T. Anthony & Company.....	25,117	Aug. 14	68	909
Paper.....	E. & H. T. Anthony & Company.....	25,118	Aug. 14	68	909
Paper and envelopes. Writing.....	Z. & W. M. Crane.....	24,104	Jan. 23	66	649
Paper and envelopes. Writing.....	Z. & W. M. Crane.....	24,105	Jan. 23	66	649
Paper and envelopes. Writing.....	Z. & W. M. Crane.....	24,156	Feb. 6	66	1000
Paper and envelopes. Writing.....	Z. & W. M. Crane.....	24,444	Apr. 3	67	134
Paper and envelopes. Writing.....	G. B. Hurd & Co.....	24,522	Apr. 17	67	396
Paper and envelopes. Writing.....	G. B. Hurd & Co.....	24,523	Apr. 17	67	396
Paper bags.....	Columbia Paper Bag Company.....	24,032	Jan. 9	66	313
Paper bags.....	Union Bag and Paper Company.....	25,735	Dec. 25	69	1771

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Paper bags	Union Bag and Paper Company	23,756	Dec. 25	69	1772
Paper. Book and letter	R. S. Paterson	24,157	Feb. 6	66	1000
Paper. Certain named	Crane & Co.	24,882	June 19	67	1567
Paper. Grass-bleached and silver tissue	R. Fletcher & Son	25,197	Sept. 4	68	1271
Paper holders. Roll	National Candy Mold and Manufacturing Company.	24,168	Feb. 6	66	1001
Paper lamp-shades	Hohenstein & Lange	24,070	Jan. 16	66	455
Paper of every description	R. Fletcher & Son	24,938	July 3	63	138
Paper. Printing and writing	J. B. Watkins	24,335	Mar. 13	66	1752
Paper. Safety	American Bank Note Company	25,237	Sept. 18	63	1515
Paper. Safety	American Bank Note Company	25,238	Sept. 18	68	1515
Paper. Toilet	F. Tempest	25,659	Dec. 11	69	1503
Paper. Wrapping and writing	R. H. Macy & Co	24,617	May 1	67	672
Paper. Wrapping, writing, printing, and toilet	Stone & Forsyth	24,822	June 5	67	1327
Paper. Writing	Crane & Co	24,821	June 5	67	1327
Paper. Writing and other	Crane & Co	24,883	June 19	67	1567
Papers. White and colored tissue and copying	R. Fletcher & Son	25,196	Sept. 4	63	1271
Pastry and confectionery. Coloring fluids for	Phoenix Extract Co	23,973	Jan. 2	66	169
Pastry, buns, cakes, and icing. Coloring for	Eggoline Manufacturing Co.	23,974	Jan. 2	66	169
Peanuts	Columbia Peanut Company	24,251	Feb. 20	66	1304
Peas. Dried split	Cape Vincent Seed Company	25,208	Sept. 4	63	1272
Perfume for toilet uses in liquids, powders, pastes, and soaps	G. E. Lorenz	24,445	Apr. 3	67	134
Perfumeries	E. B. Chapman	25,352	Oct. 16	69	365
Perfumeries	Chapman & Rodgers	25,660	Dec. 18	69	1639
Perfumeries, soap, and toilet preparations for the hair, skin, and teeth	C. E. Foote and C. C. Jenks	24,983	July 3	68	140
Perfumeries, toilet waters, sachet-powders, and toilet soap	C. B. Woodworth Sons Company	24,896	June 19	67	1568
Perfumery	W. J. Blackiston	25,461	Nov. 6	69	786
Perfumery	C. G. Buck	24,262	Feb. 20	66	1305
Perfumery	C. L. Cotton Perfume and Extract Company.	24,225	Feb. 13	66	1165
Perfumery	Indianapolis Drug Co.	24,845	June 12	67	1444
Perfumery, sachet-powder, and soap	Firm of Solon Palmer	24,962	July 3	68	140
Perfumery, soaps, washes, lotions, and similar articles	W. S. Thomson	25,428	Oct. 30	69	637
Perfumery, toilet water, and face powder	Firm of Alfred Wright	25,224	Sept. 11	68	1387
Periodicals and other prints	Grit Publishing Company	25,149	Aug. 21	68	1018
Periodicals. Printed	Sporting Life Publishing Company	24,653	May 8	67	807
Petroleum for internal and external remedies for disease. Refined	Angier Chemical Company	24,051	Jan. 16	66	453
Pharmaceutical preparation for the skin	H. Finkelpearl	24,191	Feb. 6	66	1003
Pharmaceutical preparations	S. Radlauer	24,866	June 12	67	1445
Pharmaceutical product	L. Durand, Huguenin & Co	24,315	Mar. 6	66	1591
Pharmaceutical product	L. Durand, Huguenin & Co.	24,316	Mar. 6	66	1591
Pharmaceutical products	Farbenfabriken, vormals Fr. Bayer & Co.	24,722	May 15	67	925
Photographic use. Paper for	Vereinigte Fabriken Photographischer Papiere.	24,910	June 26	67	1716
Piano tuning-pins	A. Dolge & Son	25,435	Oct. 30	69	638
Pie-filling	T. E. Dougherty	25,719	Dec. 25	69	1769
Pie-filling	T. E. Dougherty	25,720	Dec. 25	69	1769
Pile fabrics. Mohair	Lister & Company	24,776	May 29	67	1186
Pills	C. I. Hood & Co	24,865	June 12	67	1445
Pills	Dr. Kilmer & Co	23,456	Nov. 6	69	786
Pills	Magic Medicine Co	24,961	July 3	68	140
Pills	H. Robinson	24,323	Mar. 6	66	1592
Pills	A. Schmidt	24,190	Feb. 6	66	1003
Pills	H. C. Wilkinson	25,177	Aug. 28	68	1110
Pills. Certain	W. A. Abbott	24,923	June 26	67	1717
Pills. Liver	Francis Medicine Co	24,829	June 5	67	1328
Pills or pellets	W. R. Kennard	25,636	Dec. 18	69	1639
Pills or pellets	W. R. Kennard	25,687	Dec. 18	69	1639
Pills. Tonic	Sydney Ross Company	25,380	Oct. 16	69	368
Pistols. Revolver	Smith & Wesson	25,085	July 31	68	654
Pistols. Revolving	Chicago Fire Arms Company	24,801	May 29	67	1188
Pistols, rifles, and sporting-guns	Colt's Patent Fire Arms Manufacturing Company.	24,696	May 8	67	810
Pipe threading and cutting machines	Curtis & Curtis	24,125	Jan. 30	66	841
Plants and seeds	"Lathyrus" Landwirtschaftliche Gesellschaft mit Beschränkter Haftung.	24,213	Feb. 13	66	1164
Plaster and cement for building purposes. Hard	Diamond Plaster Company	25,002	July 10	68	278
Plasters and finishes. Prepared	Standard Plaster Company	25,142	Aug. 14	63	911
Plasters. Strengthening	Johnson & Johnson	25,705	Dec. 25	69	1763
Plastic composition and collars and cuffs made therefrom	Fiberloid Company	25,151	Aug. 21	68	1018
Plastic material for certain named purposes	Dehamme-Delettre Brush Company.	25,138	Aug. 14	63	911
Plows, shovels, spades, hoes, picks, and mattocks	Collins Company	24,803	May 29	67	1188
Plumbers' supplies, comprising closets, seats, and tanks	W. Heap	25,534	Nov. 20	69	1065
Poison for rats	Churchill Drug Company	25,709	Dec. 25	69	1768
Polish for stoves, &c	J. L. Prescott & Co	25,331	Oct. 9	69	240
Polish for stoves and like articles	J. L. Prescott & Co	25,506	Nov. 13	69	942
Polishing-paste	Lubszynski & Co	24,247	Feb. 20	66	1305
Polishing-powder for metal and glass	Royal Manufacturing Co	25,228	Sept. 11	68	1387
Polishing preparations	Chemisch Fabrik Herrmann and A. Lubszynski.	25,430	Oct. 30	69	637
Pool-balls	Albany Billiard Ball Company	24,426	Mar. 27	66	2049
Pool-balls	Albany Billiard Ball Company	24,427	Mar. 27	66	2050
Pool-balls	Albany Billiard Ball Company	24,428	Mar. 27	66	2050
Pop-corn and candy of all kinds. Manufactured	Eaton & Hobbs	24,740	May 22	67	1061
Powder. Complexion	E. J. Wormley	24,721	May 15	67	921
Powders. Headache	Harvey Manufacturing Co	24,991	July 10	68	277
Powders. Headache	Harvey Manufacturing Co	24,992	July 10	68	277
Powders, tablets, pills, bleaches, salves, liniments, oils, pastes, herbs, and bitters.	Emin Pasha Drug Co	25,100	Aug. 7	68	767
Preparation for beautifying the complexion	W. A. Hance	24,589	Apr. 24	67	526

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Preparation for beautifying the skin.....	R. Kuntze.....	25,269	Sept. 25	68	1625
Preparation for female diseases done up in a ball and wrapped in tin-foil.....	C. E. Langworthy.....	24,321	Mar. 6	66	1591
Preparation for the cure of gonorrhea.....	E. D. Phillips.....	24,322	Mar. 6	66	1591
Preparation for the cure of indigestion.....	C. H. Davis.....	25,055	July 24	68	531
Preparation. Skin.....	N. H. Outland.....	25,247	Sept. 18	68	1516
Preparation to prevent sea-sickness.....	R. Hudnut.....	24,755	May 22	67	1062
Preparations. Certain named toilet.....	M. Meyberg.....	25,021	July 17	68	410
Preparations for the skin.....	M. Meyberg.....	24,823	June 5	67	1327
Preparations, including soap. Certain named toilet.....	Vail Brothers.....	24,824	June 5	67	1327
Preparations. Laxative and diuretic.....	La Ville Laboratory Company.....	24,596	Apr. 24	67	526
Preparations. Line of proprietary.....	Foley & Co.....	24,539	Apr. 17	67	397
Preservative for provisions. Chemical.....	James Boulton & Company.....	25,181	Aug. 28	68	1140
Printed periodicals.....	North Shore News Company.....	23,990	Jan. 2	66	170
Printed publications.....	Mascot Publishing Co.....	25,344	Oct. 16	69	364
Printed publications.....	E. H. Walsh.....	25,384	Oct. 23	69	505
Prunes. Dried.....	J. Violet, Bird & Co.....	25,616	Dec. 11	69	1502
Pumps. Air.....	Cleveland Faucet Company.....	24,800	May 29	67	1188
Punch. Milk.....	J. A. P. Pitt.....	25,265	Sept. 25	68	1624
Puzzles.....	A. G. Frye.....	25,345	Oct. 16	69	364
Quinine. Preparation of.....	Billings, Clapp & Co.....	24,275	Feb. 20	66	1306
Radiator attachments, such as shelves and brackets.....	A. J. Bennett.....	23,955	Jan. 2	66	167
Radiators and steam-heating specialties.....	A. A. Griffing Iron Company.....	25,144	Aug. 14	68	912
Radiators. Steam and hot-water.....	A. A. Griffing Iron Company.....	24,429	Mar. 27	66	2050
Radiators. Steam and hot-water.....	United States Radiator Company.....	25,335	Oct. 9	69	240
Railway-brasses and journal-boxes and metals therefor.....	Magnolia Metal Company.....	25,747	Dec. 25	69	1772
Railway-frog foot-guards.....	M. Riley.....	24,563	Apr. 17	67	400
Razor-strops.....	G. N. W. Wilson.....	24,261	Feb. 20	66	1305
Razors.....	H. Boker & Co.....	25,451	Nov. 6	69	786
Razors and shears.....	E. Hunold.....	25,201	Sept. 4	68	1271
Refrigerators.....	D. Eddy & Sons.....	24,325	Mar. 6	66	1592
Refrigerators.....	Francis T. Witte Hardware Com- pany.....	24,908	June 19	67	1570
Registers and serving-machines for stationery. Time, sales, and cash.....	Globe Register Company.....	24,698	May 8	67	810
Remedies. Certain internal and external.....	W. Ritmeier.....	25,420	Oct. 30	69	637
Remedies. Certain named.....	H. Clark.....	25,706	Dec. 25	69	1768
Remedies. Certain named.....	Dr. Chase Co.....	24,686	May 8	67	809
Remedies. Certain named.....	Dr. Kilmer & Co.....	25,455	Nov. 6	69	786
Remedies. Certain named.....	Dr. Kilmer & Co.....	25,494	Nov. 13	69	941
Remedies. Certain named.....	Dr. Kilmer & Co.....	25,637	Dec. 11	69	1501
Remedies. Certain named.....	J. O. Ducker, W. T. Findly, and G. Harvey.....	24,233	Feb. 13	66	1165
Remedies. Certain named.....	Dysmenotone Co.....	24,097	Jan. 23	66	648
Remedies. Certain named.....	R. H. Macy & Co.....	24,256	Feb. 20	66	1305
Remedies. Certain named.....	J. F. O'Hern.....	24,726	May 15	67	925
Remedies. Certain named.....	Springsteen Medicine Company.....	24,599	Apr. 24	67	527
Remedies. Certain named.....	E. and A. L. Wood.....	24,870	June 12	67	1445
Remedies for catarrh.....	A. R. Pratt.....	24,230	Feb. 13	66	1165
Remedies for catarrh and similar diseases.....	J. Spear.....	25,577	Dec. 4	69	1357
Remedies for catarrh, la grippe, and diseases of the throat and lungs.....	L. Mabee.....	24,469	Apr. 3	67	137
Remedies for certain named diseases.....	Robert-Milton Manufacturing Co.....	24,786	May 29	67	1187
Remedies for constipation and diseases of the liver and kidneys.....	E. A. Butts Company.....	23,983	Jan. 2	66	169
Remedies for constipation, biliousness, rheumatism, and neuralgia.....	Prentiss Chemical and Manufactur- ing Company.....	24,400	Mar. 20	66	1892
Remedies for cutaneous diseases.....	Crescent Remedy Co.....	25,027	July 17	63	411
Remedies for diseases of the blood.....	McKesson & Robbins.....	24,761	May 22	67	1063
Remedies for diseases of the blood, nerves, and respiratory organs.....	T. W. Graydon.....	24,990	July 10	68	277
Remedies for diseases of the kidneys, liver, bowels, and stomach.....	W. F. Maass.....	25,057	July 24	68	531
Remedies for diseases of the stomach.....	I. Schoultz.....	24,828	June 5	67	1328
Remedies for diseases of the stomach and bowels.....	Sultan Drug Company.....	24,320	Mar. 6	66	1591
Remedies for diseases of the throat and lungs, liver, blood, kidneys, and nerves.....	G. W. Pangle.....	24,356	Mar. 13	66	1753
Remedies for dyspepsia, indigestion, and diphtheria.....	R. W. Johnson.....	23,998	Jan. 2	66	170
Remedies for dyspepsia, indigestion, and diphtheria.....	R. W. Johnson.....	23,999	Jan. 2	66	170
Remedies for female diseases.....	S. B. Leonardi.....	25,639	Dec. 11	69	1501
Remedies for headache.....	Oak Chemical Company.....	25,132	Aug. 14	68	910
Remedies for malarial diseases.....	Paris Medicine Company.....	24,016	Jan. 9	66	311
Remedies for nervous diseases.....	Leslie E. Keeley Company.....	25,682	Dec. 18	69	1638
Remedies for pulmonary and similar diseases.....	W. R. Kennard.....	25,685	Dec. 18	69	1639
Remedies for purifying and treating the blood.....	McKesson & Robbins.....	24,760	May 22	67	1063
Remedies for purifying the blood. Internal.....	F. Oxnard.....	25,294	Oct. 2	69	118
Remedies for rheumatism and disorders of the blood.....	F. A. Aulick.....	25,267	Sept. 25	68	1624
Remedies for rheumatism and similar complaints.....	J. Levy.....	24,012	Jan. 9	66	311
Remedies for rheumatism, neuralgia, and lumbago.....	S. Klein.....	23,997	Jan. 2	66	170
Remedies for throat and lung diseases.....	Gilpin, Langdon & Co.....	24,594	Apr. 24	67	526
Remedies for throat diseases.....	A. Strehler & Co.....	24,013	Jan. 9	66	311
Remedies of a laxative, cathartic, and purgative character.....	Perrin & Stephenson.....	25,157	Aug. 21	68	1019
Remedy. Asthma.....	J. H. Guild.....	24,354	Mar. 13	66	1753
Remedy. Certain named.....	C. T. Sing.....	24,826	June 5	67	1328
Remedy. Corn.....	W. S. Haswell.....	24,351	Mar. 13	66	1753
Remedy. Cough.....	Stuart Medicine Co.....	25,292	Oct. 2	69	118
Remedy for catarrh.....	F. J. Cheney.....	25,081	July 31	68	654
Remedy for catarrh.....	D. F. Smith.....	25,576	Dec. 4	69	1357
Remedy for certain affections of the skin.....	Daggett & Ramsdell.....	24,144	Jan. 30	66	843
Remedy for certain named diseases.....	J. W. Lundgren.....	24,465	Apr. 3	67	137
Remedy for certain named diseases.....	J. M. McLeod.....	24,467	Apr. 3	67	137
Remedy for certain named diseases. Internal.....	Germozone Company.....	24,146	Jan. 30	66	843
Remedy for certain named diseases. Tonic.....	Lange Tonic Co.....	25,291	Oct. 2	69	118
Remedy for chicken-cholera.....	E. M. Hawkins.....	24,476	Apr. 3	67	138

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Remedy for chilblains.	Lenz Ku-Ra-Tiv Co	24,873	June 12	67	1446
Remedy for chills and fever	W. F. Morrow	24,231	Feb. 13	66	1165
Remedy for colds. Internal	Forsyth & Co.	25,638	Dec. 11	69	1501
Remedy for constipation, atonic dyspepsia, biliary engorgement, and other gastric diseases.	Sharp & Dohme	25,231	Sept. 11	68	1387
Remedy for corns	J. C. Proctor	24,783	May 29	67	1187
Remedy for coughs, colds, and all diseases of the throat and lungs.	P. G. McComas	24,095	Jan. 23	66	648
Remedy for coughs, colds, and throat and lung affections	A. F. Walker	24,417	Mar. 27	66	2049
Remedy for coughs, colds, consumption, and other diseases of the throat and lungs.	E. H. Fienhold	24,318	Mar. 6	66	1591
Remedy for diseases of hogs	G. H. Hall & Co	25,078	July 31	68	653
Remedy for diseases of horses	H. L. Lohmeyer	25,289	Oct. 2	69	118
Remedy for diseases of the blood	L. J. Bell	24,052	Jan. 16	66	453
Remedy for diseases of the blood	Keller & Nutt	25,056	July 24	68	531
Remedy for diseases of the blood and nervous system	S. A. Richmond	24,053	Jan. 16	66	453
Remedy for diseases of the lungs and air-passages	T. S. Spivey	24,900	June 19	67	1569
Remedy for diseases of the respiratory organs	A. MacKinnon	24,143	Jan. 30	66	842
Remedy for diseases of the stomach and bowels	Hance Bros. & White	25,315	Oct. 9	69	239
Remedy for diseases of women	German American Drug Company	24,198	Feb. 6	66	1004
Remedy for gonorrhea	Scureman Drug Co	24,271	Feb. 20	66	1306
Remedy for headache	Hance Bros. & White	25,179	Aug. 28	68	1140
Remedy for headache	C. C. Hearn	25,375	Oct. 16	69	367
Remedy for headache and neuralgia	R. Black	24,644	May 1	67	674
Remedy for indigestion and dyspepsia	J. Carnrick	25,131	Aug. 14	68	910
Remedy for indigestion, dyspepsia, and similar affections	F. R. Butterfield	24,319	Mar. 6	66	1591
Remedy for kidney and liver diseases	P. P. Bradt	25,026	July 17	68	411
Remedy for kidney, liver, and other diseases.	H. N. Spaulding	24,628	May 1	67	673
Remedy for lung and nervous diseases	Billings, Clapp & Co.	24,270	Feb. 20	66	1306
Remedy for nervous and blood diseases	A. Burger and F. B. Losee	24,959	July 3	68	140
Remedy for nervous diseases.	A. H. Parker & Co.	24,785	May 29	67	1187
Remedy for neutralizing the effects of intoxicants	G. H. Bonte	22,140	Jan. 30	66	842
Remedy for phthisis, chloro-anæmia, and scrofula.	B. De Tol-do	24,958	July 3	68	140
Remedy for rheumatism	W. J. Gardner	24,871	June 12	67	1446
Remedy for rheumatism	J. Keen	24,872	June 12	67	1446
Remedy for rheumatism	F. Sherman	24,055	Jan. 16	66	453
Remedy for rheumatism, gout, and lumbago	W. H. Corbit	24,259	Feb. 20	66	1305
Remedy for skin diseases. Liquid.	B. F. Miner	25,642	Dec. 11	69	1502
Remedy for the asthma.	F. E. Drumheller	24,787	May 29	67	1187
Remedy for the blood	B. H. Goll	24,759	May 22	67	1063
Remedy for the cure of consumption	O. J. Fullerton	25,640	Dec. 11	69	1501
Remedy for the headache	N. C. Young	23,929	Jan. 2	66	170
Remedy for throat and chest diseases	G. E. Miller	24,355	Mar. 13	66	1753
Remedy for toothache	H. Ievers	25,452	Nov. 6	69	786
Remedy for toothache, neuralgia, burne, and wounds. Topical.	E. Dablbans	24,192	Feb. 6	66	1003
Remedy. Headache.	Oak Chemical Company	24,257	Feb. 20	66	1305
Remedy. Toothache.	Harle, Haas & Co.	25,053	July 24	68	531
Repellents or waterproof cloth	Dexter Woolen Mills	24,842	June 12	67	1443
Retinned steel ware for kitchen use	Bellaire Stamping Company	24,239	Feb. 13	66	1166
Ribbons	Ahegg & Rusch	25,443	Nov. 6	69	785
Ribbons	Ahegg & Rusch	25,557	Dec. 4	69	1356
Ribbons	R. & H. Adams	25,558	Dec. 4	69	1356
Ribbons. Certain named	Rosenheim-Levis-Zukoski Mercantile Company.	24,652	May 1	67	674
Ribbons, piece goods, cloths, and stuffs made of silk	A. & S. Blumenthal.	24,811	June 5	67	1326
Ribbons. Silk	E. S. Jaffray & Co	25,702	Dec. 25	69	1768
Rice	Bloom & Son	25,364	Oct. 16	69	366
Rivets	Hoopes & Townsend	24,439	Apr. 3	67	134
Roach-powder	G. Kolke	25,300	Oct. 2	69	119
Roofing, packing, gaskets, insulating and non-conducting materials containing asbestos.	H. W. Johns Manufacturing Company.	25,404	Oct. 23	69	506
Rubber. All articles of hard and soft.	Mechanical Rubber Company	24,658	May 8	67	807
Rubber. All articles of hard and soft.	Mechanical Rubber Company	24,659	May 8	67	807
Rubber belting, packing, and hose, and rubber footwear and wearing-apparel.	H. E. Wagoner	25,567	Dec. 4	69	1356
Rubber boots	Woonsocket Rubber Company	25,342	Oct. 16	69	364
Rubber boots and shoes	Boston Rubber Shoe Company	24,374	Mar. 20	66	1889
Rubber-coated skirt-facing	I. B. Kleinert Rubber Company	25,310	Oct. 9	69	238
Rubber-coated skirt-facing	I. B. Kleinert Rubber Company	25,311	Oct. 9	69	238
Rubber goods. Mechanical	Revere Rubber Company	25,489	Nov. 13	69	940
Rubber goods. Mechanical	Revere Rubber Company	25,490	Nov. 13	69	940
Rubber shoes	Boston Rubber Shoe Company	24,043	Jan. 16	66	452
Rubber shoes	Boston Rubber Shoe Company	24,102	Jan. 23	66	649
Sad-irons	Colebrookdale Iron Company	25,082	July 31	68	654
Safes. Iron and steel fireproof.	M. J. Sanchez	24,881	June 12	67	1444
Salt	F. I. W. Bursch	24,550	Apr. 17	67	398
Salt	Cryetaline Salt Company	24,006	Jan. 9	66	310
Salt	Cryetaline Salt Company	24,007	Jan. 9	66	311
Salt	W. H. Priesmeyer	25,107	Aug. 7	68	767
Salt. Common	T. Higgin & Co.	25,067	July 31	68	652
Salt. Dairy	Union Pacific Salt Company	24,795	May 29	67	1188
Salt. Dairy	Union Pacific Salt Company	24,796	May 29	67	1188
Salt. Dairy	Union Pacific Salt Company	24,797	May 29	67	1188
Salt. Dairy	Union Pacific Salt Company	24,798	May 29	67	1188
Salts. Smelling.	A. P. Preston	25,580	Dec. 4	69	1357
Salve	J. Carmody	25,024	July 17	68	410
Salve	R. E. Mauntel	24,147	Jan. 30	66	843
Salve. Lip	O. Magenau	24,927	June 26	67	1717
Salves, ointments, liniments, and powders	C. Foster	24,692	May 8	67	810
Sarsaparilla, cough cure, pills, salve, and worm-tablets. Extract of	C. E. McIninch	24,593	Apr. 24	67	526
Sarsaparilla extract	H. W. Tate	24,092	Jan. 23	66	649
Sarsaparilla liquid compound	Gold Medal Sarsaparilla Company	25,552	Nov. 27	69	1206

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Sash-locks and door-bolts.	H. B. Ives & Co.	24,260	Feb. 20	66	1305
Sateens and twills for dress and lining purposes	Leshner, Whitman & Co.	24,840	June 12	67	1443
Sauce or relish for meats, soups, fish, and oysters	T. C. McKown and H. McVea	25,730	Dec. 25	69	1770
Sauer-kraut	Edwards & Guhl Produce Company	24,059	Jan. 16	66	454
Sauer-kraut	C. S. & M. Vandensen	24,677	May 8	67	808
Sausage	Anglo-American Provision Company	24,510	Apr. 10	67	269
Screw-drivers	Tower & Lyon	25,740	Dec. 25	69	1771
Seed. Clover	Gillett & Hall	25,287	Oct. 2	69	118
Serges	E. Burnett	25,560	Dec. 4	69	1356
Sewing-machines	Siegel, Cooper & Company	24,730	May 15	67	926
Sewing-machines and attachments	Williams Manufacturing Company	24,274	Feb. 20	66	1306
Sewing-machines and attachments	Williams Manufacturing Company	25,034	July 17	68	412
Sewing-machines and attachments	Williams Manufacturing Company	25,035	July 17	68	412
Shampoo for the hair	J. W. Barnum	24,541	Apr. 17	67	397
Sheetings	J. A. Robinson	25,412	Oct. 30	69	636
Sheetings	J. A. Robinson	25,444	Nov. 6	69	785
Sheetings and shirtings. Brown and bleached	Dudley, Battelle & Hurd	24,841	June 12	67	1443
Sheetings, shirtings, muslins, drillings, and denims	Smith, Hogg & Gardner	24,814	June 5	67	1326
Sheets, pillow-slips, and house linen	Scott Brothers	24,377	Mar. 20	66	1889
Shellac gum. Orange	Berry Bros.	24,491	Apr. 10	66	267
Shells. Paper shot	Union Metallic Cartridge Company	24,648	May 1	67	674
Shingles, staves, casks, and barrels	Shaw Brothers	24,799	May 29	67	1188
Shirt-waists and ladies' underwear	Holzman Manufacturing Co.	25,666	Dec. 18	69	1637
Shirts	W. M. Steppacher & Bro.	25,150	Aug. 21	68	1018
Shirts	A. M. Stockwell	24,913	June 26	67	1716
Shirts. Men's	Mausmann Bros.	25,260	Sept. 25	68	1624
Shirts. Men's	March Bros., Pierce & Co.	24,810	June 5	67	1326
Shirts. Over and dress	Taylor, Son & Co.	25,563	Dec. 4	69	1356
Shoe-dressing. Liquid	C. L. Hauthaway & Sons	24,847	June 12	67	1444
Shoe-goring	Chadbourne & Moore	25,387	Oct. 23	69	505
Shoe-goring	Chadbourne & Moore	25,388	Oct. 23	69	505
Shoe oil polish	Eagle Shoe Oil Polish Co.	25,013	July 17	68	409
Shoe-pegs	Moore Peg Co.	25,152	Aug. 21	68	1018
Shoes and slippers	Strauss & Jandorf Shoe Company	25,341	Oct. 10	69	364
Shoes, harness, and fine leather. Dressing for	Jas. S. Mason Company	24,603	Apr. 24	67	527
Shoes. Ladies' and misses' fine	Stribley & Co.	24,705	May 15	67	923
Shoes. Leather	Hathaway, Soule & Harrington	24,734	May 22	67	1061
Shoes. Men's	Giesecke Boot and Shoe Manufacturing Company	24,327	Mar. 13	66	1751
Shoes. Men's and boys'	J. P. Twaddell	24,264	Feb. 20	66	1306
Sifters. Flour	Sills & Grossman Company	24,087	Jan. 23	66	647
Sifters. Flour	Sills & Grossman Company	24,088	Jan. 23	66	647
Silk and velvet fabric and ribbons	J. Forest & Co.	25,243	Sept. 18	68	1516
Silk. Embroidering, floss, wash, and sewing	M. Meyer	24,9-5	July 10	68	277
Silk. Embroidery, sewing, and floss	New London Wash Silk Company	25,410	Oct. 30	69	636
Silk floss or embroidery-silk	New London Wash Silk Company	25,533	Nov. 20	69	1065
Silk piece goods	Revel Père et Fils	24,654	May 8	67	807
Silks, silk goods, and ribbons	E. S. Jaffray & Co.	25,445	Nov. 6	69	785
Silver. Souvenir articles of	Kent & Stanley Company	24,618	May 1	67	672
Silver tableware	M. C. Eppenstein & Co.	24,525	Apr. 17	67	396
Silverware and jewelry. Flat and table	Whiting Manufacturing Company	24,712	May 15	67	924
Silverware. Table and ornamental	Howard Sterling Company	24,713	May 15	67	924
Sirup and molasses	P. C. Schulte	25,321	Oct. 9	69	239
Sirup. Maple	Hill Syrup Company	24,576	Apr. 24	67	524
Sirups, flavoring extracts, and phosphates. Fountain	J. Hungerford Smith Company	24,174	Feb. 6	66	1001
Skates. Roller	G. E. Curtis	24,645	May 1	67	674
Skins. Calf and goat	Guignes Tanneries Company	24,206	Feb. 13	66	1163
Skins. Dyed rabbit	Latrrique & Pinton	24,529	Apr. 17	67	396
Skirts. Sateen	Stiefel Bros.	25,200	Sept. 4	68	1271
Slate	H. Kuntz	25,191	Aug. 28	68	1142
Slate and slate articles	E. J. Johnson & Co.	24,619	May 1	67	672
Slates	Hyatt School Slate Company	25,333	Oct. 9	69	240
Slates	Hyatt School Slate Company	25,403	Oct. 23	69	506
Slates. Roofing	Old Bangor Slate Company	25,754	Dec. 25	69	1772
Snuff	B. F. Weyman	25,244	Sept. 18	68	1516
Snuff	B. F. Weyman	25,245	Sept. 18	68	1516
Snuff	B. F. Weyman	25,246	Sept. 18	68	1516
Soap	C. E. Bonte	24,990	July 10	68	278
Soap	Los Angeles Soap Co.	25,225	Sept. 11	68	1387
Soap	Torrey & Beutley Company	24,495	Apr. 10	67	268
Soap	Wabash Soap and Chemical Company	24,187	Feb. 6	66	1003
Soap	Wabash Soap and Chemical Company	25,691	Dec. 18	69	1639
Soap and certain named toilet preparations	T. Leeming & Co.	25,551	Nov. 27	69	1206
Soap and lotions. Toilet	C. E. Cornell	24,587	Apr. 24	67	526
Soap and saponaceous compounds	H. M. Small and H. B. Teed	24,543	Apr. 17	67	398
Soap. Bar	J. Biechele Soap Co.	24,851	June 12	67	1444
Soap. Bath and laundry	G. W. Norton	25,329	Oct. 9	69	240
Soap. Castile	California Olive Oil Soap Company	24,293	Mar. 6	66	1569
Soap containing a fine grit	Kleanit Manufacturing Co.	24,393	Mar. 20	66	1891
Soap. Dry powdered	G. J. Moulton & Company	25,495	Nov. 13	69	941
Soap for antiseptic and disinfecting purposes	Fels & Co.	25,272	Sept. 25	68	1625
Soap for cleaning metals, paint, and glass	W. Collamore	25,075	July 31	68	653
Soap for laundry and household cleansing purposes	J. Dietrich & Co.	25,156	Aug. 21	68	1019
Soap for laundry and toilet use	G. D. Stead Soap Co.	25,271	Sept. 25	68	1625
Soap for manufacturing and domestic purposes. Oil	Buzzy & Bickley Company	24,422	Mar. 27	66	2049
Soap for the laundry, bath, and toilet. White	Torrey & Bentley Company	24,152	Jan. 30	66	843
Soap in cakes or bars	Christopher Lipps Company	24,292	Mar. 6	66	1589
Soap in cakes or bars	Christopher Lipps Company	24,494	Apr. 10	67	268
Soap in cakes or bars	Geyserite Soap Company	24,392	Mar. 20	66	1891
Soap. Laundry	Globe Chemical Company	24,680	May 8	67	809
Soap. Laundry	Iowa Soap Company	25,589	Dec. 4	69	1358
Soap. Laundry	Unio Soap Co.	25,032	July 17	68	411

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Soap. Laundry, bath, and toilet.	Torrey & Bentley Company	25,151	Jan. 30	66	843
Soap paste. Toilet.	Buzby & Bickley Company	24,421	Mar. 27	66	2049
Soap, perfume, and toilet powder	H. Tetlow	24,347	Mar. 13	66	1753
Soap. Petroleum	M. Jenkins	24,226	Feb. 13	66	1165
Soap powder	Diamond Dust Soap Powder Co.	25,163	Aug. 7	68	767
Soap powder	M. Werk Company	25,400	Oct. 23	69	506
Soap. Shaving.	J. B. Williams Company	24,294	Mar. 6	66	1589
Soap. Shaving.	J. B. Williams Company	24,295	Mar. 6	66	1589
Soap. Shaving.	J. B. Williams Company	24,446	Apr. 3	67	134
Soap. Shaving.	J. B. Williams Company	25,353	Oct. 16	69	365
Soap. Tallow	K. M. Rapelje	24,639	May 1	67	673
Soap. Toilet.	Ayers Toilet Soap Co.	25,210	Sept. 4	68	1272
Soap. Toilet.	F. G. Burke	25,690	Dec. 18	69	1639
Soap. Toilet.	B. V. Cushman	24,895	June 19	67	1568
Soap. Toilet.	Graham Bros. & Co.	25,643	Dec. 11	69	1502
Soap. Toilet.	Graham Brothers & Co.	25,429	Oct. 30	69	637
Soap. Toilet.	Jarmuth Brothers	24,009	Jan. 9	66	311
Soap. Toilet.	J. B. Williams Company	24,296	Mar. 6	66	1589
Soap. Toilet.	J. B. Williams Company	24,542	Apr. 17	67	398
Soap. Toilet.	J. B. Williams Company	25,104	Aug. 7	68	767
Soap. Toilet.	J. B. Williams Company	25,270	Sept. 25	68	1625
Soap. Toilet.	J. B. Williams Company	25,328	Oct. 9	69	240
Soap. Toilet and laundry	E. E. Fox	24,150	Jan. 30	66	843
Soap. Toilet and laundry	A. B. Wrisley	24,624	May 1	67	672
Soaps. Kitchen and laundry.	R. H. Macy & Co.	24,394	Mar. 20	66	1891
Soaps, perfumes, face powder, and complexion creams and lotions. Toilet	A. Hamburger & Sons	24,964	July 3	68	140
Soda. Caustic	Northumbrian Chemical Company	24,718	May 15	67	924
Soles and top lifts. Tap.	G. Brandenburg	25,042	July 24	68	329
Sorghum	Cincinnati Syrup and Molasses Company.	23,972	Jan. 2	66	168
Specific for sweating feet.	Sweatine Chemical Co.	25,080	July 31	68	654
Specifics for certain named diseases	W. T. Banks	24,988	July 10	68	277
Spices and baking powder.	Woolson Spice Company	24,675	May 8	67	808
Spices and flavoring extracts.	John Bird Company	24,546	Apr. 17	67	398
Starch	J. and J. Colman	24,089	Jan. 22	66	647
Starch	Nebraska City Starch Company	24,580	Apr. 24	67	525
Starch for food and laundry purposes	National Starch Manufacturing Company.	24,745	May 22	67	1062
Starch for laundry use. Lump.	National Starch Manufacturing Company.	24,678	May 8	67	809
Starch. Laundry	James, Royal & Co.	24,743	May 22	67	1061
Starch. Laundry	James, Royal & Co.	24,744	May 22	67	1061
Starch. Laundry	T. Kingsford & Son	24,997	July 10	68	278
Starch. Laundry	T. Kingsford & Son	24,998	July 10	68	278
Starch. Laundry	National Starch Manufacturing Company.	24,622	May 1	67	672
Starch. Laundry	National Starch Manufacturing Company.	24,623	May 1	67	672
Starch. Laundry	National Starch Manufacturing Company.	24,679	May 8	67	809
Starch. Laundry.	National Starch Manufacturing Company.	24,894	June 19	67	1568
Starch made of potatoes. Burned.	B. P. Ducas Company	24,863	June 12	67	1445
Starch. Wheat.	Crystal Springs Manufacturing Company.	25,596	Dec. 4	69	1359
Staves and heading.	J. H. Hamlen & Son	24,240	Feb. 13	66	1166
Stays. Dress.	T. P. Taylor	24,254	Mar. 6	66	1588
Stays. Dress and corset.	J. Janowitz	25,700	Dec. 25	69	1768
Steam and hot-water heaters	American Boiler Company	24,075	Jan. 16	66	455
Steam and hot-water heaters	American Boiler Company	24,076	Jan. 16	66	455
Steam and hot-water heaters	American Boiler Company	24,077	Jan. 16	66	455
Steam and hot-water heaters	American Boiler Company	24,078	Jan. 16	66	456
Steam-boilers.	Babcock & Wilcox Company	25,550	Nov. 20	69	1066
Steam-traps	Estate of A. L. Jones	24,242	Feb. 13	66	1166
Stone and cement pavements, &c. Tools and implements for making artificial.	F. B. Dearinger and C. S. Niemier	25,253	Sept. 18	68	1518
Stoves and ranges	H. Haller Manufacturing Company	24,404	Mar. 20	66	1892
Stoves and ranges	H. Haller Manufacturing Company	24,405	Mar. 20	66	1892
Stoves and ranges	H. Haller Manufacturing Company	24,406	Mar. 20	66	1892
Stoves and sheet-metal pipes and elbows. Oil and gas	Grinberg Bros	25,143	Aug. 14	68	912
Stoves. Oil, gas, or vapor	Cleveland Foundry Company	24,028	Jan. 9	66	313
String instruments	Hitzeroth & Schatz	25,195	Sept. 4	68	1271
Suits. Boys	Sykes Bros. & Co.	25,531	Nov. 20	69	1067
Suits. Children's	Bowly & Co.	24,838	June 12	67	147
Suppositories	Benze & Co.	25,381	Oct. 16	69	30
Suspenders	Scientific Suspender Company	24,807	June 5	67	127
Suspenders and braces. Men's	Wire Buckle Suspender Co.	24,119	Jan. 30	66	1
Sweet-potato flour, bread and pastry made therefrom, and desiccated and sliced sweet potatoes.	E. Straus	24,215	Feb. 13	66	1
Syringes	A. B. Crnickshank	24,348	Mar. 13	66	
Tablets for the cure of heart disease	W. W. Lacey	25,293	Oct. 2	69	
Tablets or pills for coughs, colds, and similar throat and lung affections.	L. H. Hammond	24,960	July 3	68	
Taffy	W. W. Hollis	25,017	July 17	67	
Tags and labels	Dennison Manufacturing Company	24,369	Mar. 20	66	
Tailoring wearing-apparel for men and boys	Schloss Bros. & Co.	25,447	Nov. 6	68	
Tailoring wearing-apparel for men and boys	Schloss Brothers & Co.	25,565	Dec. 4	68	
Tapioca	Ceylon Spice Co.	24,549	Apr. 17	67	
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Velocipedes.....	Eagle Bicycle Manufacturing Company.....	23,954	Jan. 2	66	167
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Veterinary remedies.....	J. F. Smith.....	24,200	Feb. 6	66	1118
Veterinary remedies.....	G. B. Stewart.....	25,288	Oct. 2	69	649
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Wall-paper. Cleaning material for.....	Zizelman & Bartlett.....	24,600	Apr. 24	67	1754
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Wash and insect-destroyer. Tree.....	J. M. Carnahan.....	25,641	Dec. 11	69	278
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Washing compound.....	G. A. Pfaffmann.....	24,068	Jan. 16	66	1061
Washing compound for laundry and other purposes.....	R. J. Jarrait.....	24,742	May 22	67	1387
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Watchcases.....	Illinois Watch Case Company.....	24,436	Apr. 3	67	923
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